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
Art Education
Biology
Broad Field Science
Business Administration
Chemistry
Civil Engineering
Communication Technologies
Comprehensive Business and Economics
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
Music
Music Education
Ornamental Horticulture
Philosophy
Physical Education
Political Science
Psychology
Reclamation, Environment and Conservation
Social Science Comprehensive-teaching and non-teaching
Software Engineering
Soil and Crop Science
Technology Education
Theatre

Minors
Accounting
Agricultural Business
Animal Science
Art
Biology
Biotechnology
Broadcasting
Building Construction Management
Business Administration
Chemistry
Computer Integrated Manufacturing
Computer Science
Creative Writing
Criminal Justice
Drafting / Product Development Technology
Early Childhood
Economics
English
English - Secondary Education
Environmental Science
Ethnic Studies
Food Marketing
Forensic Investigation
French
French - Secondary Education
Geography
Geography
Geographical Information Systems
Geology
German
German - Secondary Education
Health Education
History
History - Secondary Education
Imaging Media
Industrial Control Systems Technology
Interdisciplinary Studies
International Studies
Journalism
Language Arts
Mathematics
Mathematics - Middle Education
Mathematics - Secondary Education
Metal Processing Technology
Microsystems and Nanotechnology
Music
Music - Choral
Music - Instrumental
Music Theatre
Natural Science
Occupational Safety Management
Ornamental Horticulture
Philosophy
Physical Education
Physics
Physics - Secondary Education
Plastics Processing Technology
Political Science
Production and Manufacturing Management
Psychology
Renewable Energy
Social and Environmental Justice
Social Science
Sociology
Soil and Crop Science
Spanish - Secondary Education
Special Education / Inclusion
Speech Communication
Teaching English as a Second or Other Language
Technical Theatre
Theatre
Theatre Performance
Theatre - Secondary Education
Women's and Gender Studies
# Table of Contents

I. The University

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Catalog Information</td>
<td>5</td>
</tr>
<tr>
<td>About UW-Platteville</td>
<td>6</td>
</tr>
<tr>
<td>Our Mission</td>
<td>6</td>
</tr>
<tr>
<td>Faculty and Academic Staff</td>
<td>6</td>
</tr>
<tr>
<td>Students</td>
<td>6</td>
</tr>
<tr>
<td>Safety and Health Policy</td>
<td>6</td>
</tr>
<tr>
<td>Facilities</td>
<td>6</td>
</tr>
<tr>
<td>The Platteville Community</td>
<td>7</td>
</tr>
<tr>
<td>History</td>
<td>7</td>
</tr>
<tr>
<td>The University Seal and School Colors</td>
<td>7</td>
</tr>
<tr>
<td>Admission to the University</td>
<td>8</td>
</tr>
<tr>
<td>Admission Categories</td>
<td>8</td>
</tr>
<tr>
<td>New Freshman Admission Guidelines</td>
<td>8</td>
</tr>
<tr>
<td>Transfer Policies</td>
<td>9</td>
</tr>
<tr>
<td>Re-entrant Requirements</td>
<td>11</td>
</tr>
<tr>
<td>International Student Admission Policies</td>
<td>11</td>
</tr>
<tr>
<td>Tri-State Initiative</td>
<td>11</td>
</tr>
<tr>
<td>Credits by Examination or Review</td>
<td>12</td>
</tr>
<tr>
<td>Advanced Placement Examination</td>
<td>12</td>
</tr>
<tr>
<td>College Level Examination Programs</td>
<td>15</td>
</tr>
<tr>
<td>Departmental Test-Outs and Waivers</td>
<td>16</td>
</tr>
<tr>
<td>Advanced Credit for Veterans</td>
<td>16</td>
</tr>
<tr>
<td>Registering For and Taking Courses</td>
<td>17</td>
</tr>
<tr>
<td>Advance Registration and Orientation for New Freshmen</td>
<td>17</td>
</tr>
<tr>
<td>Registration for Continuing and Transfer Students</td>
<td>17</td>
</tr>
<tr>
<td>Policies Affecting Student Registration</td>
<td>17</td>
</tr>
<tr>
<td>Tuition and Fee Policies</td>
<td>18</td>
</tr>
<tr>
<td>Excess Credit Policy</td>
<td>19</td>
</tr>
<tr>
<td>Dropping Courses</td>
<td>19</td>
</tr>
<tr>
<td>Seniors Enrolled in Graduate Courses</td>
<td>20</td>
</tr>
<tr>
<td>Other University Policies</td>
<td>20</td>
</tr>
<tr>
<td>Class Attendance</td>
<td>20</td>
</tr>
<tr>
<td>Grades</td>
<td>20</td>
</tr>
<tr>
<td>Scholastic Honors</td>
<td>21</td>
</tr>
<tr>
<td>Declaring/Changing Majors</td>
<td>21</td>
</tr>
<tr>
<td>Transcripts</td>
<td>22</td>
</tr>
<tr>
<td>Simultaneous Enrollment at Another Institution</td>
<td>22</td>
</tr>
<tr>
<td>Academic Probation and Suspension</td>
<td>22</td>
</tr>
<tr>
<td>Family Educational Rights and Privacy Act</td>
<td>23</td>
</tr>
<tr>
<td>Student Grievances and Discipline</td>
<td>23</td>
</tr>
<tr>
<td>Withdrawal from the University</td>
<td>24</td>
</tr>
<tr>
<td>Requirements for the Associate Degree</td>
<td>24</td>
</tr>
<tr>
<td>Requirements for the Bachelor’s Degree</td>
<td>24</td>
</tr>
<tr>
<td>Graduation</td>
<td>25</td>
</tr>
<tr>
<td>Veteran’s Resources</td>
<td>26</td>
</tr>
<tr>
<td>Veterans and Military Service Personnel: Leaving and Returning to the University</td>
<td>26</td>
</tr>
</tbody>
</table>
II. The Colleges

College of Business, Industry, Life Science and Agriculture ................................................................. 53
School of Agriculture ............................................................................................................................ 54
Department of Biology .......................................................................................................................... 70
Department of Business and Accounting .............................................................................................. 77
Department of Communication Technologies ......................................................................................... 83
Department of Industrial Studies ........................................................................................................... 87

College of Engineering, Mathematics and Science .............................................................................. 94
Department of Chemistry and Engineering Physics ................................................................................ 97
Broad Field Science Program .................................................................................................................. 102
Department of Civil and Environmental Engineering .......................................................................... 104
Department of Computer Science and Software Engineering .............................................................. 108
Department of Electrical Engineering .................................................................................................. 112
Department of General Engineering ..................................................................................................... 115
Department of Mathematics .................................................................................................................. 118
Department of Mechanical and Industrial Engineering ........................................................................ 122

College of Liberal Arts and Education .................................................................................................. 126
Department of Criminal Justice ............................................................................................................. 128
Ethnic Studies Program ......................................................................................................................... 131
Department of Humanities ..................................................................................................................... 132
Department of Performing and Visual Arts ............................................................................................ 143
Department of Psychology ..................................................................................................................... 146
Social and Environmental Justice Program .......................................................................................... 153
Department of Social Sciences ............................................................................................................... 156
Women's and Gender Studies Program .................................................................................................. 169
School of Education ................................................................................................................................ 170

III. Course Descriptions

Accounting .................................................. 184  Engineering Physics .............................................. 231  Physical Science .................................................. 269
Agricultural Industry .................................. 185  Ethnic Studies ...................................................... 232  Physical Education .............................................. 269
Agricultural Science .................................... 188  Forensic ............................................................... 234  Physics ................................................................. 274
Art ......................................................... 192  French ................................................................. 235  Political Science .................................................. 275
Biology .................................................... 196  General Engineering .......................................... 236  Psychology ......................................................... 277
Business Administration ............................ 200  Geography ......................................................... 238  Reclamtion .......................................................... 280
Chemistry ................................................. 205  Geology ............................................................... 241  Social and Environmental Justice ..................... 281
Civil Engineering ....................................... 208  German ............................................................... 242  Sociology ............................................................ 281
Communication Technologies, 211  History ................................................................. 243  Software Engineering ........................................ 282
Computer Science ...................................... 215  Industrial Engineering ....................................... 246  Spanish ............................................................... 284
Counselor Education .................................... 217  Industrial Studies ............................................ 248  Speech Communication ..................................... 285
Criminal Justice ......................................... 218  Mathematics .................................................... 254  Teacher Education ............................................ 286
Economics .................................................. 220  Mechanical Engineering .................................... 257  Theatre ............................................................... 290
Electrical Engineering ............................... 222  Music Applied .................................................. 261  UW-Platteville Study .......................................... 292
Energy ..................................................... 224  Music ................................................................. 261  Women's and Gender Studies ......................... 293
English ..................................................... 225  Philosophy .......................................................... 267

IV. Other Reference Information

Faculty and Academic Staff .................................................... 296
Faculty Emeriti and Retired Academic Staff ........................................ 312
Chancellor's Cabinet .............................................................................................................................. 314
UW System Administration .................................................................................................................. 315
Glossary ................................................................................................................................................. 316
Index ..................................................................................................................................................... 318
General Catalog Information

To Prospective Students
The contents of this catalog describe programs and courses offered by UW-Platteville.

The contents also include information related to course offerings, tuition and fees, financial aid, scholarships, housing and much more. The standard UW System Application for Admission may be obtained by contacting the UW System HELP office at 1.800.442.6459, or the UW-Platteville Office of Admission and Enrollment Services in Ullsvik Hall. Prospective students are strongly encouraged to apply electronically at apply.wisconsin.edu. Please see the UW-Platteville home page at www.uwplatt.edu/admission/apply.html for specific instructions. More detailed information about admission categories, dates and requirements can be found in the catalog’s admission section.

Campus Visits
Visiting campus is the best way to experience UW-Platteville and find out what the campus, faculty, staff and students have to offer. Group and individual campus visits are available by appointment through the Prospective Student Services office Monday through Friday during the school year and Mondays, Tuesdays and Wednesdays throughout the summer. The visit program provides prospective students with an opportunity to talk with staff from Prospective Student Services, learn more about UW-Platteville and take a campus tour. Visits can be personalized according to academic, athletic, and student organization and club interests. Pioneer Preview open houses are scheduled group visits, which offer a wide range of activities for students and families, including a student services fair, campus tour, lunch and a faculty meeting. Opportunities are also offered to prospective students to experience a day in the life of a Pioneer. Attend class, explore campus and eat lunch with a current UW-Platteville student. Visit www.uwplatt.edu/admission/visits.html to schedule a visit to UW-Platteville.

About this Catalog
The UW-Platteville 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.

Catalogs are issued to new students when they register for courses. The catalog should be kept readily available throughout a student’s academic career. The contents of the catalog can also be found on the UW-Platteville home page.

As a reminder, this bulletin is not a contract, but represents announcements of general information, general academic regulations and the university’s academic programs extant at the date of publication. Questions concerning the 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:
- American Chemical Society
- Foundry Education Foundation
- Higher Learning Commission - 312.263.0456 www.ncacheiclerlearningcommission.org
- National Council for the Accreditation of Teacher Education
- National Association for the Education of Young Children
- National Association of Industrial Technology
- National Association of Schools of Music
- Wisconsin Department of Public Instruction

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

UW-Platteville is one of 13 publicly supported comprehensive universities in the UW System. Founded in 1866, UW-Platteville is the oldest public institution in the state of Wisconsin, and is considered one of the safest campuses in the nation. 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 16 to 1. Of a faculty of 336, approximately 90 percent hold doctorates or 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 2008 was approximately 7,500 students. Nearly 90 percent of students are undergraduates. Some 2,700 students live in 10 campus residence halls. Nearly 80 percent of students are Wisconsin residents, and just over 12 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 and Engineering Hall. Additionally, there have been major renovations to Doudna Hall, Russell Hall, Pioneer Tower, Ullrich Hall, the Art
Building, Ullsvik Hall and Glenview Commons. There have also been extensive improvements in athletic and recreational facilities, including Ralph E. Davis Pioneer Stadium, the outdoor track and field facility, and the softball and baseball fields.

A significant feature of the university campus is the Center for the Arts. The 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 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.

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 “M” measures 214 x 241 feet and consists of some 400 tons of whitewashed stone. The lighting of the “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.
Admission to the University

To All Applicants
This section provides general admission information for degree-seeking students. Professional development courses or courses for personal enjoyment can be found in the Continuing Education section.

Those who intend to earn a degree must apply for admission to the university. To apply electronically, please see the UW-Platteville home page at www.uwplatt.edu/admission/apply.html for specific instructions.

Applications for the following fall semester are accepted on Sept. 15. Admitted students (including transfers) are required to submit a $100 enrollment deposit as soon as possible to ensure a place in the incoming class. The application cannot be processed until the application fee is received, and the deposit is refundable until May 1.

If 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 to their respective department (for example, persons wishing to major in engineering must have earned a 22 or higher in the mathematics portion of the ACT, or have a SAT I mathematics score of 520) or have earned a grade of “C” or better in MATH 2640 Calculus and Analytic Geometry or its equivalent. Please check the departmental section in this catalog for details. The staff in the Office of Admission and Enrollment Services is dedicated to providing assistance.

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.

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

- Must be in the top 50 percent of their class or have an ACT composite of 22 (SAT I of 1030) as a senior
- Must be in the upper 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) as a junior
- 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 semester 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.

Youth Options Program:
High school students who wish to take university courses under the youth option program must apply through both their high school and UW-Platteville for permission to enroll. (Contact the high school counselor, principal or district administrator for additional information.)

New Freshman Admission Guidelines
Students meeting the following requirements are likely to be admitted:

- Successfully completed 17 college preparatory units to include:
  - 4 units English
  - 3 units mathematics (algebra and higher)
Home School Student Admission Procedures

To be considered for admission, home school students must provide the following:

- 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 SAT 1030. Consideration will also be given to factors such as stronger academic performance later in high school, demonstrated leadership skills in school or community, and personal statements and recommendations.
- Students seeking immediate admission to general engineering must have a minimum mathematics ACT score of 22 or SAT score of 520. Engineering students not meeting these minimum mathematics requirements will be placed in pre-engineering until completion of Calculus and Analytic Geometry with a letter grade of “C” or higher.
- UW-Platteville uses standardized test results as one of the criteria measures for admission. The UW System requires all new freshmen applicants to submit the results of either the ACT or SAT for review. The ACT is the preferred test. Students will not be disadvantaged in the admission process by taking one test rather than the other. It is recommended that the ACT/SAT be taken in the spring of the junior year of high school and that the score reports be sent directly to the Office of Admission and Enrollment Services. This requirement is waived for prospective students over the age of 25.

Students meeting the following requirements will be considered for admission through a comprehensive review process:

- Successfully completed 17 college preparatory units
- In top 65 percent of their graduating class and have an ACT composite score of 18 (870 SAT) or higher
- Combined high school class percentile rank and ACT composite score that equals the numeric value of 50
- Letters from high school faculty in areas of English, mathematics and laboratory science courses may be required and must address the student’s success potential in college coursework

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

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

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

Transfer Requirements

How do I apply?
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 high 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.

What are the transfer requirements for standard admission?
All transfer students may be admitted if they have a cumulative grade point average 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.

Transfer Policies

Student Eligibility
All transfer students may be admitted if they have a cumulative grade point average 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.

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.

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.

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. The maximum number of credits transferable from a two-year institution is 72.

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.
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 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.

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.

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.

**Transfer of Credits**

Evaluation of the transfer 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.

**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 of general education requirements will be completed and mailed to both the student and 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**

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 receive a 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.

**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.

**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.

Re-entrant Requirements

- 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.
- 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.
- All re-entrant students must pay a $100 enrollment deposit prior to credit evaluation and registration.

International Student Admission Policies

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 May 1 and that applications for the spring semester be completed no later than Sept. 15.

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 and academic buildings.

Learn more about TSI by visiting www.uwplatt.edu/admission/tristate.
Credits by Examination or Review

Some students may be eligible to receive college credits based on their Advanced Placement or College Level Examination Program scores; still others may choose to take test-outs developed by individual departments on the UW-Platteville campus. In addition, most veterans are eligible to receive some advanced credit for their service. Since many of the credits awarded by examination or review count toward the general education requirements, students should read both this chapter and the general education chapter of the catalog thoroughly before registering for courses.

Advanced Placement and Credit (Revised: January 1, 2007)

<table>
<thead>
<tr>
<th>AP Examination</th>
<th>Score</th>
<th>Credit</th>
<th>Course No.</th>
<th>Course Name</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>History of Art</td>
<td>3,4,5</td>
<td>3</td>
<td>ART 2430</td>
<td>Art Survey</td>
<td></td>
</tr>
<tr>
<td>Drawing Portfolio</td>
<td>3,4,5</td>
<td>4</td>
<td>ART 1010</td>
<td>Basic Drawing I</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ART 2010</td>
<td>Basic Drawing IV: Intermed</td>
<td></td>
</tr>
<tr>
<td>2-D Design Portfolio</td>
<td>3,4,5</td>
<td>2</td>
<td>ART 1420</td>
<td>Basic Design I: 2-D</td>
<td></td>
</tr>
<tr>
<td>3-D Design Portfolio</td>
<td>3,4,5</td>
<td>2</td>
<td>ART 1520</td>
<td>Basic Design II: 3-D</td>
<td></td>
</tr>
<tr>
<td>BIOLOGY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>3</td>
<td>3</td>
<td>BIOLOGY 1150</td>
<td>General Biology</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>4</td>
<td>4</td>
<td>BIOLOGY 1150</td>
<td>General Biology</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>5</td>
<td>5</td>
<td>BIOLOGY 1150</td>
<td>General Biology</td>
<td></td>
</tr>
<tr>
<td>CHEMISTRY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>3</td>
<td>5</td>
<td>CHEMISTRY 1050</td>
<td>General Chemistry</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>4</td>
<td>4-5</td>
<td>CHEMISTRY 1140 or CHEMISTRY 1450</td>
<td>General Chemistry Chemistry for Engineers</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>5</td>
<td>5-8</td>
<td>CHEMISTRY 1140 and 1240 or CHEMISTRY 1450</td>
<td>General Chemistry Chemistry for Engineers</td>
<td></td>
</tr>
<tr>
<td>COMPUTER SCIENCE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Science AB</td>
<td>3,4,5</td>
<td>3</td>
<td>COMPUTER 1430</td>
<td>Programming in C++</td>
<td></td>
</tr>
<tr>
<td>Computer Science A</td>
<td>3,4,5</td>
<td>3</td>
<td>COMPUTER 1430</td>
<td>Programming in C++</td>
<td></td>
</tr>
<tr>
<td>Pascal-based A or AB</td>
<td>3</td>
<td>3</td>
<td>COMPUTER 1130</td>
<td>Intro to Programming</td>
<td></td>
</tr>
<tr>
<td>C++-based A or AB</td>
<td>3</td>
<td>3</td>
<td>COMPUTER 1430</td>
<td>Programming in C++</td>
<td></td>
</tr>
<tr>
<td>ECONOMICS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Macroeconomics</td>
<td>3,4,5</td>
<td>3</td>
<td>ECONOMICS 2130</td>
<td>Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>Microeconomics</td>
<td>3,4,5</td>
<td>3</td>
<td>ECONOMICS 2230</td>
<td>Microeconomics</td>
<td></td>
</tr>
<tr>
<td>ENGLISH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Language and Comp.</td>
<td>3,4</td>
<td>3</td>
<td>ENGLISH 1130</td>
<td>Freshman Composition</td>
<td></td>
</tr>
<tr>
<td>English Language and Comp.</td>
<td>5, 6</td>
<td>6</td>
<td>ENGLISH 1130 ENGLISH 1230</td>
<td>Freshman Composition</td>
<td></td>
</tr>
<tr>
<td>Literature and Composition</td>
<td>3, 4</td>
<td>3</td>
<td>ENGLISH 1130 and ENGLISH 1330</td>
<td>Freshman Composition Intro to Literature</td>
<td></td>
</tr>
<tr>
<td>Literature and Composition</td>
<td>4, 5</td>
<td>6</td>
<td>ENGLISH 1130 and ENGLISH 1330</td>
<td>Freshman Composition Intro to Literature</td>
<td></td>
</tr>
<tr>
<td>ENVIRONMENTAL SCIENCE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Science</td>
<td>3,4,5</td>
<td>3</td>
<td>GEOGRAPHY 3330</td>
<td>Environ. Conservation</td>
<td></td>
</tr>
<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><strong>FRENCH</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>French Language</td>
<td>3</td>
<td>8</td>
<td>FRENCH 1040</td>
<td>Elementary French</td>
<td></td>
</tr>
<tr>
<td>French Language</td>
<td>4</td>
<td>12</td>
<td>FRENCH 1040</td>
<td>Elementary French</td>
<td></td>
</tr>
<tr>
<td>French Language</td>
<td>5</td>
<td>16</td>
<td>FRENCH 1040</td>
<td>Elementary French</td>
<td></td>
</tr>
<tr>
<td>French Literature</td>
<td>4</td>
<td>8</td>
<td>FRENCH 1040</td>
<td>Elementary French</td>
<td></td>
</tr>
<tr>
<td>French Literature</td>
<td>4</td>
<td>12</td>
<td>FRENCH 1040</td>
<td>Elementary French</td>
<td></td>
</tr>
<tr>
<td>French Literature</td>
<td>5</td>
<td>16</td>
<td>FRENCH 1040</td>
<td>Elementary French</td>
<td></td>
</tr>
<tr>
<td><strong>GERMAN</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>German Language</td>
<td>3</td>
<td>8</td>
<td>GERMAN 1240</td>
<td>Elementary German</td>
<td></td>
</tr>
<tr>
<td>German Language</td>
<td>4</td>
<td>12</td>
<td>GERMAN 1240</td>
<td>Elementary German</td>
<td></td>
</tr>
<tr>
<td>German Language</td>
<td>5</td>
<td>16</td>
<td>GERMAN 1240</td>
<td>Elementary German</td>
<td></td>
</tr>
<tr>
<td><strong>ITALIAN</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Italian Language and Culture</td>
<td>3,4,5</td>
<td>3</td>
<td></td>
<td>General Education - Humanities</td>
<td></td>
</tr>
<tr>
<td><strong>LATIN</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin (Vergil) and (Catullus-Horace)</td>
<td>3,4,5</td>
<td>3</td>
<td></td>
<td>General Education - Humanities</td>
<td></td>
</tr>
<tr>
<td><strong>SPANISH</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spanish Language</td>
<td>3</td>
<td>8</td>
<td>SPANISH 1840</td>
<td>Elementary Spanish</td>
<td></td>
</tr>
<tr>
<td>Spanish Language</td>
<td>4</td>
<td>12</td>
<td>SPANISH 1840</td>
<td>Elementary Spanish</td>
<td></td>
</tr>
<tr>
<td>Spanish Language</td>
<td>5</td>
<td>16</td>
<td>SPANISH 1840</td>
<td>Elementary Spanish</td>
<td></td>
</tr>
<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>CHINESE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chinese Language and Culture</td>
<td>3,4,5</td>
<td>6</td>
<td></td>
<td></td>
<td>General Education - meets Foreign Language requirement and 3 credits toward Humanities</td>
</tr>
<tr>
<td>JAPANESE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Japanese Language and Culture</td>
<td>3,4,5</td>
<td>6</td>
<td></td>
<td></td>
<td>General Education - meets Foreign Language requirement and 3 credits toward Humanities</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human Geography</td>
<td>3,4,5</td>
<td>3</td>
<td>GEOGRAPHY 1230</td>
<td></td>
<td>Survey of Cultural Geog</td>
</tr>
<tr>
<td>HISTORY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American History</td>
<td>3,4,5</td>
<td>6</td>
<td>HISTORY 1330</td>
<td></td>
<td>Hist. of U.S., 1492-1877</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>HISTORY 1430</td>
<td></td>
<td>Hist. of U.S. Since 1877</td>
</tr>
<tr>
<td>European History</td>
<td>3,4,5</td>
<td>3</td>
<td>HISTORY 1020</td>
<td></td>
<td>World Civilization II</td>
</tr>
<tr>
<td>World History</td>
<td>3,4,5</td>
<td>6</td>
<td>HISTORY 1010</td>
<td></td>
<td>World Civilization I</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>HISTORY 1020</td>
<td></td>
<td>World Civilization II</td>
</tr>
<tr>
<td>MATHEMATICS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus AB</td>
<td>3</td>
<td>3</td>
<td>MATH 2630</td>
<td></td>
<td>Calculus w/ Applications</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>4,5</td>
<td>4</td>
<td>MATH 2640</td>
<td></td>
<td>Calculus and Analytic Geometry I</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>0,1,2</td>
<td>3</td>
<td>MATH 2630</td>
<td></td>
<td>Calculus w/ Applications</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>0,1,2</td>
<td>4</td>
<td>MATH 2640</td>
<td></td>
<td>Calculus and Analytic Geometry I</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>3</td>
<td>4</td>
<td>MATH 2640</td>
<td></td>
<td>Calculus and Analytic Geometry I</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>4,5</td>
<td>8</td>
<td>MATH 2640</td>
<td></td>
<td>Calc and Analytic Geom I</td>
</tr>
<tr>
<td>Statistics</td>
<td>3,4,5</td>
<td>3</td>
<td>MATH 1830</td>
<td></td>
<td>Elementary Statistics</td>
</tr>
<tr>
<td>MUSIC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music Theory</td>
<td>3,4,5</td>
<td>3</td>
<td>MUSIC 1730</td>
<td></td>
<td>Theory and Musicianship with Computers</td>
</tr>
<tr>
<td>Music Listening and Literature</td>
<td>3,4,5</td>
<td>3</td>
<td>MUSIC 2030</td>
<td></td>
<td>Intro to Music History and Literature</td>
</tr>
<tr>
<td>PHYSICS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics B</td>
<td>3,4,5</td>
<td>10</td>
<td>PHYSICS 1350</td>
<td></td>
<td>Introductory Physics</td>
</tr>
<tr>
<td>Physics C: Mechanics</td>
<td>3,4,5</td>
<td>4</td>
<td>PHYSICS 2240</td>
<td></td>
<td>General Physics I</td>
</tr>
<tr>
<td>Physics C: Electricity and Magnetism</td>
<td>3,4,5</td>
<td>4</td>
<td>PHYSICS 2340</td>
<td></td>
<td>General Physics II</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></td>
<td>Intro to American Government</td>
</tr>
<tr>
<td>Comparative Government and Politics</td>
<td>3,4,5</td>
<td>3</td>
<td>POLISCI 2430</td>
<td></td>
<td>Comparative Politics</td>
</tr>
<tr>
<td>PSYCHOLOGY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Psychology</td>
<td>3,4,5</td>
<td>3</td>
<td>PSYCHLGY 1130</td>
<td></td>
<td>General Psychology</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>CLEP Examination</th>
<th>Min. Score</th>
<th>Credits</th>
<th>Course No.</th>
<th>Course Name</th>
<th>Comments</th>
</tr>
</thead>
<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</td>
<td>American Lit through the Civil War</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ENGLISH 2530</td>
<td>American Literature since the Civil War</td>
<td></td>
</tr>
<tr>
<td>Analyzing and Interpreting</td>
<td>50</td>
<td>6</td>
<td>ENGLISH 1330</td>
<td>Intro to Literature</td>
<td></td>
</tr>
<tr>
<td>Literature</td>
<td></td>
<td></td>
<td>ENGLISH 3990</td>
<td>Special Topics: Literature</td>
<td></td>
</tr>
<tr>
<td>College Composition Modular</td>
<td>50</td>
<td>6</td>
<td>ENGLISH 1130</td>
<td>Freshman Composition I</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ENGLISH 1230</td>
<td>Freshman Composition II</td>
<td></td>
</tr>
<tr>
<td>English Literature</td>
<td>50</td>
<td>6</td>
<td>ENGLISH 2130</td>
<td>English Lit: Beg thru Commonwealth</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ENGLISH 2230</td>
<td>English Lit: Rest thru Romantic Age</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>50</td>
<td>6</td>
<td>ENGLISH 1330</td>
<td>Intro to Literature, Special Topics: Writing or</td>
<td>General exam: Must be taken prior to earning</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ENGLISH 3990</td>
<td>Literature</td>
<td>15 credits</td>
</tr>
<tr>
<td><strong>FOREIGN LANGUAGES</strong></td>
<td></td>
<td></td>
<td></td>
<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</td>
<td>Elementary French II</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>FRENCH 2040</td>
<td>Intermediate French I</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>FRENCH 2140</td>
<td>Intermediate French II</td>
<td></td>
</tr>
<tr>
<td>German-College Level 1</td>
<td>50</td>
<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>
<td>12</td>
<td>GERMAN 1340</td>
<td>Elementary German II</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GERMAN 2240</td>
<td>Intermediate German I</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GERMAN 2340</td>
<td>Intermediate German II</td>
<td></td>
</tr>
<tr>
<td>Spanish-College Level 1</td>
<td>50</td>
<td>4</td>
<td>SPANISH 1840</td>
<td>Elementary Spanish I</td>
<td></td>
</tr>
<tr>
<td>Spanish-College Level 2</td>
<td>63</td>
<td>12</td>
<td>SPANISH 1940</td>
<td>Elementary Spanish II</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SPANISH 2840</td>
<td>Intermediate Spanish I</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SPANISH 2940</td>
<td>Intermediate Spanish II</td>
<td></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>
Advanced Placement Examination
Credit and advanced placement may be granted to students who are accepted as matriculating students and who have participated in the Advanced Placement Examination Program. Students applying for UW-Platteville admission must arrange to have their Advanced Placement Examination score reports sent to UW-Platteville Office of Admission and Enrollment Services. Departments in the Colleges of Business, Industry, Life Science and Agriculture; Engineering, Mathematics and Science; and Liberal Arts and Education participate in the Advanced Placement Program and have developed the following advanced placement course protocols.

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 or 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 Pioneer Passage 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 every semester 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. Advising 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.

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
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 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 standards. Appeals may be made to the committee or the associate vice chancellor.

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>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 associate vice chancellor 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. Some courses are offered only on a pass-fail basis. Courses taken on a pass-fail basis cannot be used to fulfill general requirements or major requirements. Students may enroll for only one course per semester on a pass-fail basis.

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
Note: At the time of publication, a new repeat policy was under review by campus governance groups. Any change in policy will be noted on the Registrar Office website at www.uwplatt.edu/registrar/registration.html.

When students repeat courses, only the most recent grade is counted in calculating 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. 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.

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
This section provides the tuition and fee policies that were in effect at the time this book went to press. For up-to-date information, contact the Cashier’s Office at 608.342.1211 or check the Cashier’s Office website at www.uwplatt.edu/business/cashiers.

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.

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?
All initial bills go to the student’s home address. All other bills go to the student’s local address. If the student wants the bill to go to another address, a Change of Billing Address form must be submitted to the Cashier’s Office.

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 608.342.1836 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.

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.

---

**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 Directory.

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 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. The grading system effective fall 2011 is:

<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></td>
<td>3.70</td>
</tr>
<tr>
<td>B+</td>
<td></td>
<td>3.30</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td></td>
<td>2.70</td>
</tr>
<tr>
<td>C+</td>
<td></td>
<td>2.30</td>
</tr>
<tr>
<td>C</td>
<td>Fair</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td></td>
<td>1.70</td>
</tr>
<tr>
<td>D+</td>
<td></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>

Scholastic Honors

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

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

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

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 academic advisor. When students choose a major, they should report to the Registrar’s Office to receive instructions and complete a change of major form. Upon changing majors, students will be assigned a new academic advisor. When students choose a major, they should report to the Registrar’s Office to receive instructions and complete a change of major form. 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. Encouraged to request a major checksheet 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.

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 checksheet 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: At the time of publication, a new repeat policy was under review by campus governance groups. Any change in policy will be noted on the Registrar Office website at www.uwplatt.edu/registrar/registration.html.

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.
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. The following fees apply:

- 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
All 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 (Note: Although G.P.A. does not include transfer coursework, the number of semesters does include semesters completed at another institution):

1. First semester students (new freshmen only)
   - Grade point average less than 1.60: First probation
   - G.P.A. less than 0.75: Dismissal
2. Second semester students
   - Cumulative G.P.A. less than 1.80: First probation if in good standing the previous semester
   - Final probation – if on first probation the previous semester
   - Semester G.P.A. less than 1.00: Dismissal
3. Third semester students
   - Cumulative G.P.A. less than 1.80: First probation – if in good standing the previous semester
   - Final probation – if on first probation the previous semester
   - Dismissal – if on final probation the previous semester
   - Semester G.P.A. less than 1.00: Dismissal
4. Fourth (and up) semester students
   - Cumulative G.P.A. less than 2.00: First probation – if in good standing the previous semester
   - Final Probation – if on first probation the previous semester
   - Dismissal – if on final probation the previous semester
   - Semester G.P.A. less than 1.00: Dismissal

Students on final probation will not be allowed more than two consecutive semesters to regain acceptable academic standing. If during the probationary period students do not meet the minimum acceptable standards defined above, they will be dismissed.

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, or 0.75 in the case of first semester students, 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. First semester freshmen achieving grade point averages of less than 0.75 at the end of the semester
2. Any other student earning a semester grade point average of less than 1.00 at the end of a semester
3. Second semester freshmen and first semester sophomores on final probation who earn a cumulative grade point average of less than 1.80 at the end of a semester

All other students on final probation who earn a semester grade point average of 2.00 or higher and have a cumulative grade point average of 1.99 or lower at the end of a semester will remain on final probation.

**Suspension for Two Years:**
Students who have been suspended (dismissed), readmitted or reinstated, and again fail to earn the required grade point average, are not eligible to apply for readmission until a period of two years has elapsed.

Students who have three or more suspensions from the university must appeal their reinstatement/readmission to the Admission and Academic Appeals Committee after another period of two years has elapsed.

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

**Reinstatement to Good Standing:**
Students achieving cumulative grade point averages of 2.00 or higher are reinstated to good standing.

Students are, of course, expected to make diligent progress in the pursuit of a degree. The standards outlined in the Financial Aid section of this bulletin are the stipulated guidelines for satisfactory academic progress for UW-Platteville students.

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

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

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

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

Directory information may be released to any inquirer unless students choose to exercise their right to withhold information. The university publishes a 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. 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 University of Wisconsin-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.

Commencements are held twice each year – at the end of the fall and spring semesters. All coursework (including co-ops, internships and student teaching) must be completed before a degree will be awarded and attendance at a Commencement ceremony permitted. Candidates for graduation at the end of a summer session must inform the registrar if they wish to attend the May or December Commencement. Although attendance is optional, we strongly encourage all graduates and their families to attend this important ceremony and celebrate the achievements of our new graduates.
Veteran’s 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 the Grant County Veterans Service Officer at (608) 723-2756 or by e-mail at veteran@co.grant.wi.gov.

Veteran’s Club
The Veteran’s Club offers the opportunity for fellow student veterans to come together in order to build camaraderie and support systems. The Veteran’s Club invites members who have served in any branch for any length of time in the U.S. military to join. The goals of the club are to unite service member students on campus, to establish a unified veteran’s voice on campus and to assist the members in academics, developing social skills and in the understanding of one another. For further information, please stop by the Veteran’s Club office in Room 1170 of Ullsvik Hall.

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.

- Work Study Program
- Regular student payroll (not need based)*
- FAFSA is not required

Satisfactory Academic Progress
UW-Platteville is required to monitor academic progress for students who are pursuing a degree and receiving financial aid. If the academic standards are not met, students receiving financial aid will be declared ineligible and the financial aid award(s) will be cancelled.

Satisfactory Academic Progress is measured by the following:

- Cumulative Grade Point Average Policy
  A student must maintain a cumulative grade point average as defined by the Registrar’s Office. Students who fall below an acceptable cumulative grade point average will be placed on financial aid probation the following term. If during the probationary term students raise their cumulative G.P.A. to the minimum requirement, the probation will be removed for subsequent terms. If students do not raise their cumulative G.P.A. to a minimum standard during a probationary term, they will be placed on financial aid suspension for subsequent terms. **Students on suspension are ineligible to receive financial aid.** If students are on suspension and raise their cumulative G.P.A. to an acceptable G.P.A., the suspension will be removed for subsequent terms and they will again be eligible to receive financial aid.

- 67 percent Completion Policy
  A student must complete 67 percent or more of their enrolled credit hours (number of enrolled credits as of the end of the tuition refund period) at the end of the term. Students who do not complete 67 percent of their enrolled credits at the end of the term will be placed on financial aid probation the following term. For example, if students are registered for 12 credits, to complete 67 percent they must earn eight credits. If during the probationary term students complete 67 percent of their enrolled credits, the probation will be removed for subsequent terms. If students do not complete 67 percent of their enrolled credits during the probationary term, they will be placed on financial aid suspension for subsequent terms and the student will be ineligible to receive financial aid. Students must then fund at least six credits for at least one term on their own and earn at least 67 percent of the credits attempted before the suspension is removed and financial aid reinstated.

- 150 percent Completion of Program Policy
  To receive financial aid, a student must earn their degree within a maximum time frame. The maximum time frame for which students may receive financial aid is 150 percent of the published length of the program’s credit hours. For example, the length of a bachelor’s degree is 124 credits. 124 credits x 150 percent = 186 credits. A student can receive financial aid for up to 186 credits in pursuit of this program. Credits earned at another institution that have been accepted by UW-Platteville as transfer credit are included in this total even if financial aid was not awarded for these credits. When
students have attempted a total of 125 percent of their program’s credits, they will be placed on financial aid probation as a warning that they are approaching the 150 percent maximum time frame for completion. When students have attempted 150 percent of their program’s credits, they will be placed on financial aid suspension for subsequent terms and will be ineligible to receive financial aid.

Financial Aid Appeal Process
Students have the right to appeal if they are determined to be on financial aid suspension provided they and the institution have followed the following process:

1. Student is notified via a letter by the Financial Aid Office once they are placed on financial aid probation.
2. The student will be encouraged to meet with a counselor or academic advisor. This meeting is designed to help the student develop a plan for success, review their education plan and discuss their satisfactory academic progress and related financial aid consequences.
3. The student is still considered to be on financial aid probation until the reason for the probation is fully corrected.
4. At the end of the probationary term, a review of the student’s academic progress will take place to determine if the probation can be removed or if the student is to be placed on financial aid suspension.
5. If the student is placed on financial aid suspension, the student will be notified via letter by the Financial Aid Office.
6. A student may appeal their financial aid suspension by completing a Financial Aid Suspension Appeal Request form.
7. Once the appeal request has been reviewed, a follow-up letter will be sent to the student notifying them of the outcome. If the appeal is denied, the student will be required to complete six credits without financial aid. If the student receives a 2.0 G.P.A. for those six credits, and completes all six credits, financial aid can be reinstated.

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.

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 Jan. 12. 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 mid-February 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 a 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 UW-Platteville’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>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1130*</td>
<td>3</td>
</tr>
<tr>
<td>English 1230</td>
<td>3</td>
</tr>
<tr>
<td>Speech 1010, 1250, 2010, 2250 or 3250</td>
<td>2</td>
</tr>
<tr>
<td><em>(Speech 2250, 3250 not for BILSA majors)</em></td>
<td></td>
</tr>
<tr>
<td>Mathematics 1630 or above</td>
<td>3</td>
</tr>
<tr>
<td>Wellness (PHYSED) 1000, (WOMSTD) 2430</td>
<td>1</td>
</tr>
<tr>
<td>Physical activity (PHYSED) 1020 to 1640, (MUSIC) 1820</td>
<td>1 credit</td>
</tr>
<tr>
<td>Foreign language***</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>Category</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>International education****</td>
<td>3</td>
</tr>
<tr>
<td>Ethnic and gender studies****</td>
<td>3 or 6</td>
</tr>
</tbody>
</table>

Approved courses are from 24 different disciplines. Please consult the approved course listing which follows.

* 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.

**The following general rules apply:**

1. Only approved courses may be used to fulfill the general education requirements.

2. Except in the case of courses taken to fulfill international education, ethnic studies and gender studies requirements, a course may not fulfill more than one liberal arts (B, C, D or E) requirement. Students must take one three credit course counting for both ethnic and gender studies (EGS) or take six credits; one three credit course counting for ethnic studies (E) and one three credit course counting for gender studies (G).
Courses that are listed in the humanities, fine arts, historical perspective and social science areas which can be used to meet the international education requirement are listed under the area of international education and are also designated with an (IE) in the respective lists. Courses which can be used to meet the ethnic/gender studies requirement are designated with (EGS) for ethnic and gender, (E) for ethnic only or (G) for gender only.

3. No more than six credits from one discipline may be counted toward the fulfillment of liberal arts requirements in the areas of B, C, D and E.

4. Students majoring in fields in the College of Engineering, Mathematics and Science must earn a minimum of 40 credits in upper-division courses (courses numbered 3000 or above). Students majoring in fields in the College of Business, Industry, Life Science and Agriculture and in the College of Liberal Arts and Education must earn a minimum of 39 credits in upper-division courses.

5. All students must earn 32 credits in residence at UW-Platteville and also 23 of their last 32 credits in residence.

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

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH</td>
<td>Elementary French</td>
<td>4 credits</td>
</tr>
<tr>
<td>FRENCH</td>
<td>Elementary French</td>
<td>4 credits</td>
</tr>
<tr>
<td>GERMAN</td>
<td>Elementary German</td>
<td>4 credits</td>
</tr>
<tr>
<td>GERMAN</td>
<td>Elementary German</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

SPANISH  1840  Elementary Spanish  4 credits
SPANISH  1940  Elementary Spanish  4 credits

(HUM second course only)

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPEECH</td>
<td>Public Speaking</td>
<td>2 credits</td>
</tr>
<tr>
<td>SPEECH</td>
<td>Professional Speaking</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPEECH</td>
<td>Speech Communication for Teachers</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPEECH</td>
<td>Communication/Leadership in Small Groups</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPEECH</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 requisite MATH 1630 or higher mandate. Also, the mathematics requirement will be waived for students who receive credit for MATH 2640 Calculus and Analytic Geometry. Students must meet the mathematics competency requirements before their junior year. Students may consult the UW-Platteville Mathematics Department for details concerning test-out credit.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>Finite Mathematics with Applications</td>
<td>3 credits</td>
</tr>
<tr>
<td>MATH</td>
<td>Mathematics of Finance</td>
<td>3 credits</td>
</tr>
<tr>
<td>MATH</td>
<td>Elementary Statistics</td>
<td>3 credits</td>
</tr>
<tr>
<td>MATH</td>
<td>Mathematics for Educators II</td>
<td>3 credits</td>
</tr>
<tr>
<td>MATH</td>
<td>Precalculus</td>
<td>5 credits</td>
</tr>
<tr>
<td>MATH</td>
<td>Trigonometry and Analytic Geometry</td>
<td>3 credits</td>
</tr>
<tr>
<td>MATH</td>
<td>Calculus with Applications</td>
<td>3 credits</td>
</tr>
<tr>
<td>MATH</td>
<td>Calculus and Analytic Geometry</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSED</td>
<td>Fitness Assessment/Management</td>
<td>1 credit</td>
</tr>
<tr>
<td>WOMSTD</td>
<td>Women and Health (G)</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC</td>
<td>Marching Pioneers</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Criminal Justice Fitness</td>
<td>2 credits</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Canoe, Kayak and/or Rafting</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Seasonal Activities</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Weight Training</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Aerobic Weight Training</td>
<td>1 credit</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>English Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH</td>
<td>1330 Introduction to Literature</td>
<td>3</td>
<td>ENGLISH 2250</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>1430 Thematic Studies in Literature</td>
<td>3</td>
<td>Introduction to Film</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>2050 Science Fiction</td>
<td>3</td>
<td>World Literature I (IE)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>2130 English Lit: Beginnings through Commonwealth (G, IE, HUM second course only)</td>
<td>3</td>
<td>World Literature II (IE)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>2150 Introduction to Gay Studies</td>
<td>3</td>
<td>Asian American Literature (G)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>2210 Introduction to Linguistics</td>
<td>3</td>
<td>American Literature of Ethnicity and Immigration (E)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>2230 English Lit: Restoration through Romantic Age</td>
<td>3</td>
<td>English Novel through Romantic Movement</td>
<td>3</td>
</tr>
</tbody>
</table>

PHYS 1130 Badminton 1 credit  ENGLISH 2250 Introduction to Film (HUM second course only) 3 credits
PHYS 1140 Basketball 1 credit  ENGLISH 2330 English Lit: Victorian Age to Present 3 credits
PHYS 1150 Cycling 1 credit  ENGLISH 2430 American Lit through the Civil War 3 credits
PHYS 1190 Golf 1 credit  ENGLISH 2530 American Lit since the Civil War 3 credits
PHYS 1200 Self Defense 1 credit  ENGLISH 2640 World Literature I (IE) 3 credits
PHYS 1210 Golf 1 credit  ENGLISH 2650 World Literature II (IE) 3 credits
PHYS 1220 Hydroaerobics 1 credit  ENGLISH 2730 Contemporary Literature 3 credits
PHYS 1230 Jogging/Walking 1 credit  ENGLISH 2770 International Cinema (IE) 3 credits
PHYS 1240 Racquetball 1 credit  ENGLISH 2780 Race and Gender in American Film (EGS) 3 credits
PHYS 1250 Relaxation 1 credit  ENGLISH 2830 Survey Women Writers (G) 3 credits
PHYS 1280 Personal Conditioning 1 credit  ENGLISH 2930 Minority Women Writers of the U.S. (EGS) 3 credits
PHYS 1290 Racquetball/Badminton 1 credit  ENGLISH 3050 Introduction to Contemporary Literary and Theory and Criticism 3 credits
PHYS 1300 Personal Fitness 1 credit  ENGLISH 3110 Gay and Lesbian Literature for Young Adolescents (G, HUM second course only) 3 credits
PHYS 1310 Scuba Diving 1 credit  ENGLISH 3130 English Novel through Romantic Movement 3 credits
PHYS 1330 Cross Country Skiing 1 credit  ENGLISH 3230 English Novel and Short Story since Romantic Movement 3 credits
PHYS 1340 Soccer 1 credit  ENGLISH 3260 Language and Culture (IE) 3 credits
PHYS 1360 Canoeing 1 credit  ENGLISH 3280 Gay and Lesbian Literature (G) 3 credits
PHYS 1370 Dance Tech/Practice (Ballroom, Latin, Country) 1 credit  ENGLISH 3330 English Drama 3 credits
PHYS 1380 Triathlon Training 1 credit  ENGLISH 3410 Chicano Literature (E) 3 credits
PHYS 1390 Racquet Sports 1 credit  ENGLISH 3430 Development of the American Novel 3 credits
PHYS 1400 Fitness/Activity 1 credit  ENGLISH 3530 Modern American Drama 3 credits
PHYS 1410 Swimming 1 credit  ENGLISH 3630 Mark Twain and American Humor 3 credits
PHYS 1430 Tennis 1 credit  ENGLISH 3730 Black Literature in America (E) 3 credits
PHYS 1440 Volleyball 1 credit  ENGLISH 3740 Asian American Literature (E) 3 credits
PHYS 1450 Wallyball/Volleyball 1 credit  ENGLISH 3750 American Literature of Ethnicity and Immigration (E) 3 credits
PHYS 1460 Yoga/Pilates 1 credit  ENGLISH 3760 Wisconsin Indian Literature (E) 3 credits
PHYS 1530 Bowling 1 credit  ENGLISH 3810 Modern Short Story 3 credits
PHYS 1640 Downhill Skiing 1 credit  ENGLISH 3820 Modern Poetry 3 credits
PHYS 1650 Personal Conditioning 1 credit  ENGLISH 3830 World Novel (IE) 3 credits
PHYS 1660 Yoga/Pilates 1 credit  ENGLISH 3850 Postcolonial Literature (IE) 3 credits
PHYS 1680 Personal Conditioning 1 credit  ENGLISH 3890 Film and Literature 3 credits
PHYS 1700 Personal Conditioning 1 credit  ENGLISH 3910 Classical Mythology 3 credits
PHYS 1710 Personal Conditioning 1 credit  ENGLISH 4020 History and Theory of Rhetoric 3 credits
PHYS 1720 Personal Conditioning 1 credit  ENGLISH 4030 Major English Writers 3 credits
PHYS 1730 Personal Conditioning 1 credit  ENGLISH 4080 Medieval Lyric Poetry 3 credits
PHYS 1740 Personal Conditioning 1 credit  ENGLISH 4300 English, Renaissance Poetry and Prose 3 credits
PHYS 1750 Personal Conditioning 1 credit  ENGLISH 4330 Shakespeare 3 credits
PHYS 1760 Personal Conditioning 1 credit  ENGLISH 4430 Major American Writers 3 credits
PHYS 1770 Personal Conditioning 1 credit  ENGLISH 4500 Women and Myth: Goddess, Witch, Sibyl (G, IE) 3 credits
PHYS 1780 Personal Conditioning 1 credit  ETHNSTDY 2130 The Native American Experience (E) 3 credits
PHYS 1790 Personal Conditioning 1 credit  ETHNSTDY 2930 Minority Women Writers of the U.S. (EGS) 3 credits
PHYS 1800 Personal Conditioning 1 credit  ETHNSTDY 3410 Chicano Literature (E) 3 credits
PHYS 1810 Personal Conditioning 1 credit  ETHNSTDY 3730 Black Literature in America (E) 3 credits
PHYS 1820 Personal Conditioning 1 credit  ETHNSTDY 3740 Asian American Literature (E) 3 credits
PHYS 1830 Personal Conditioning 1 credit  ETHNSTDY 3750 American Literature of Ethnicity and Immigration (E) 3 credits
PHYS 1840 Personal Conditioning 1 credit  ETHNSTDY 3760 Wisconsin Indian Literature (E) 3 credits
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 1140</td>
<td>Elementary French</td>
<td>4 credits</td>
</tr>
<tr>
<td>FRENCH 2040</td>
<td>Intermediate French</td>
<td>4 credits</td>
</tr>
<tr>
<td>FRENCH 2140</td>
<td>Intermediate French</td>
<td>4 credits</td>
</tr>
<tr>
<td>FRENCH 3000</td>
<td>Travel Abroad Seminar (IE)</td>
<td>1-4 credits</td>
</tr>
<tr>
<td>FRENCH 3530</td>
<td>Topics in French Lit/Culture</td>
<td>1-3 credits</td>
</tr>
<tr>
<td>FRENCH 4060</td>
<td>Survey French Lit/Culture I</td>
<td>3 credits</td>
</tr>
<tr>
<td>FRENCH 4160</td>
<td>Survey French Lit/Culture II</td>
<td>3 credits</td>
</tr>
<tr>
<td>GERMAN 1340</td>
<td>Elementary German</td>
<td>4 credits</td>
</tr>
<tr>
<td>GERMAN 2240</td>
<td>Intermediate German</td>
<td>4 credits</td>
</tr>
<tr>
<td>GERMAN 3330</td>
<td>German Literature 20th Century</td>
<td>3 credits</td>
</tr>
<tr>
<td>GERMAN 3530</td>
<td>German Civilization</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 1130</td>
<td>Introduction to Philosophy</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 2130</td>
<td>Peace Studies</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 2230</td>
<td>Contemporary World Views (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 2330</td>
<td>Origins of Western Philosophy</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 2430</td>
<td>Philosophy in the Modern World</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 2530</td>
<td>Ethics</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 2540</td>
<td>Science Technology and Ethics</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 2730</td>
<td>Introduction to the Hebrew Scriptures</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 2830</td>
<td>Introduction to the New Testament</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 2930</td>
<td>Major Traditions in Eastern Religions (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 3130</td>
<td>Philosophy of History</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 3230</td>
<td>Philosophy of Religion</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 3330</td>
<td>Ontology and Ethics</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 3530</td>
<td>Philosophy's Feminist Future (G)</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 3630</td>
<td>Philosophy of Law</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 3740</td>
<td>Continental Philosophy</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 3840</td>
<td>Existentialism</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 4430</td>
<td>Seminar in Philosophy</td>
<td>3 credits</td>
</tr>
<tr>
<td>SEJ 2230</td>
<td>Introduction to Social and Environmental Justice</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPANISH 1940</td>
<td>Elementary Spanish</td>
<td>4 credits</td>
</tr>
<tr>
<td>SPANISH 2840</td>
<td>Intermediate Spanish</td>
<td>4 credits</td>
</tr>
<tr>
<td>SPANISH 2940</td>
<td>Intermediate Spanish</td>
<td>4 credits</td>
</tr>
<tr>
<td>SPANISH 3000</td>
<td>Travel Abroad Seminar (IE)</td>
<td>1-4 credits</td>
</tr>
<tr>
<td>SPANISH 3830</td>
<td>Spanish Civilization</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPANISH 3840</td>
<td>Topics in Hispanic Literature/Culture</td>
<td>1-3 credits</td>
</tr>
<tr>
<td>SPANISH 3850</td>
<td>Spanish American Lit/Culture I</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPANISH 3860</td>
<td>Spanish American Lit/Culture II</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPANISH 4620</td>
<td>Cervantes</td>
<td>2 credits</td>
</tr>
<tr>
<td>SPANISH 4720</td>
<td>Spanish Lit of the 20th Century</td>
<td>2 credits</td>
</tr>
<tr>
<td>SPANISH 4830</td>
<td>Intro. to Spanish Lit</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPANISH 4930</td>
<td>Intro. to Spanish Lit</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPEECH 4020</td>
<td>History and Theory of Rhetoric (HUM second course only)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 1130</td>
<td>Introduction to Women's Studies (G, HUM or SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 2150</td>
<td>Introduction to Gay Studies</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 2830</td>
<td>Survey Women Writers (G)</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

**Fine Arts (FA) (3 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1230</td>
<td>Art and Children's Literature for Teachers</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 1240</td>
<td>Art and Social Studies for Teachers</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 2140</td>
<td>Art History I: Ancient Medieval</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 2210</td>
<td>Art History II: Renaissance-1879</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 2430</td>
<td>Art Survey</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 2730</td>
<td>Art History IV: Ethnic Art in U.S. (E)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 2750</td>
<td>Native American Art (E)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 3040</td>
<td>Art Education and Social Studies</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 3340</td>
<td>Art History III: Modern</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 3530</td>
<td>Art History V: Far Eastern Art (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 4230</td>
<td>Theory of Art</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 4640</td>
<td>Drawing VI Advanced Drawing</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 2730</td>
<td>Art History IV: Ethnic Art in the U.S. (E)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 2750</td>
<td>Native American Art (E)</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 1590</td>
<td>Music Appreciation</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 2250</td>
<td>History and Literature of Western Music I</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUSIC 2350</td>
<td>History and Literature of Western Music II</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUSIC 2450</td>
<td>World Music Survey</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 2550</td>
<td>American Music</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 2650</td>
<td>History of Jazz</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 2850</td>
<td>History of American Musical Theatre</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUSIC 3250</td>
<td>History and Literature of Western Music III</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUSIC 3350</td>
<td>History and Literature of Western Music IV</td>
<td>2 credits</td>
</tr>
<tr>
<td>THEATRE 1130</td>
<td>Introduction to the Theatre</td>
<td>3 credits</td>
</tr>
<tr>
<td>THEATRE 4220</td>
<td>Recent Contemporary Drama</td>
<td>3 credits</td>
</tr>
<tr>
<td>THEATRE 4630</td>
<td>History of Theatre and Drama</td>
<td>3 credits</td>
</tr>
<tr>
<td>THEATRE 4730</td>
<td>History of Theatre</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 3430</td>
<td>Women and the Arts (G)</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECONOMIC 3530</td>
<td>Econ. History of U.S.: 1st 300 years</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 3010</td>
<td>Race, Gender, and U.S. Labor History (E)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 3240</td>
<td>African-American History: 1619 to Present (E)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 3400</td>
<td>History of Chicano Peoples in the U.S. (E)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 1010</td>
<td>World Civilization I</td>
<td>3 credits</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>HISTORY 1020</td>
<td>World Civilization II (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 1330</td>
<td>History of the U.S. 1492-1877</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 1430</td>
<td>History of the U.S. since 1877</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3010</td>
<td>Race, Gender, and U.S. Labor History (E)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3070</td>
<td>Latin American History (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3080</td>
<td>American Military History</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3120</td>
<td>American Colonial History</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3130</td>
<td>New Nation</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3140</td>
<td>Civil War and Reconstruction</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3150</td>
<td>Gilded Age and Progressive Era</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3230</td>
<td>West in American History</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3240</td>
<td>African-American History: 1619 to Present (E)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3320</td>
<td>History of Wisconsin (HP second course only)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3400</td>
<td>The Vietnam War</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3430</td>
<td>Twentieth Century America</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3450</td>
<td>History of U.S. Foreign Relations</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3480</td>
<td>The United States Since 1945</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3520</td>
<td>American Women’s History (G)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3610</td>
<td>History of England to 1714</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3620</td>
<td>History of England since 1714</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3640</td>
<td>Imperialism in Africa and Asia (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3650</td>
<td>Women and Gender in Latin (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3660</td>
<td>Colonial Latin American History (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3670</td>
<td>Modern Latin American History (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3700</td>
<td>Women in European Civilization (G)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3710</td>
<td>Ancient Civilizations</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3730</td>
<td>Medieval Europe</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3740</td>
<td>Renaissance and the Reformation</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3810</td>
<td>Early Modern Europe</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3830</td>
<td>French Revolution and Napoleon 1789-1815</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3850</td>
<td>Twentieth Century Europe</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3860</td>
<td>History of Western Science</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3870</td>
<td>Nazi Germany and the Holocaust</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3880</td>
<td>Modern Europe Thought and Culture</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3920</td>
<td>Modern Middle East (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3930</td>
<td>East Asia (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3950</td>
<td>Modern Japan (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3970</td>
<td>Modern China (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 4110</td>
<td>Russia under the Romanovs (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 4120</td>
<td>Modern Russia (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHILSPHY 2330</td>
<td>Origins of Western Philosophy (HUM or HP second course only)</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHILSPHY 2430</td>
<td>Philosophy in the Modern World (HUM or HP second course only)</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHILSPHY 2730</td>
<td>Introduction to the Hebrew Scriptures (HUM or HP second course only)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI 3340</td>
<td>Modern Japan (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI 3350</td>
<td>Modern China (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI 3610</td>
<td>British Isles to 1714</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI 3620</td>
<td>British Isles since 1714</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI 3750</td>
<td>International Human Rights (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI 4120</td>
<td>Modern Russia (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 3520</td>
<td>American Women’s History (G)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 3650</td>
<td>Women and Gender in Latin</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 3700</td>
<td>Women in European Civilization (G)</td>
<td>3 credits</td>
</tr>
</tbody>
</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, communication, criminal justice, economics, energy, ethnic studies, geography, political science, psychology, sociology, speech, and women’s studies). The remaining three credits must be a second course in one of the two disciplines previously chosen.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS 2330</td>
<td>World Population, Food and Resources (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>CIVILENG 2010</td>
<td>Infrastructure and Society</td>
<td>3 credits</td>
</tr>
<tr>
<td>COMMNCTN 1630</td>
<td>Introduction to Mass Media</td>
<td>3 credits</td>
</tr>
<tr>
<td>COMMNCTN 3200</td>
<td>Gender and Popular Culture (G)</td>
<td>3 credits</td>
</tr>
<tr>
<td>COMMNCTN 3770</td>
<td>Theories of Media and Culture</td>
<td>3 credits</td>
</tr>
<tr>
<td>CRIMLJUS 1130</td>
<td>Introduction to Criminal Justice</td>
<td>3 credits</td>
</tr>
<tr>
<td>CRIMLJUS 3730</td>
<td>Women and the Law (G)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 2130</td>
<td>Principles of Macroeconomics</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 2230</td>
<td>Principles of Microeconomics</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 2250</td>
<td>Economics and Western History I</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 2260</td>
<td>Economics and Western History II</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 2410</td>
<td>Interpretation of Business and Economic Data</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 2940</td>
<td>Political Economy, Race, Gender, and Ethnicity (EGS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 3220</td>
<td>Introduction to Managerial Economics</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 3330</td>
<td>Intermediate Micro-economic Analysis</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 3340</td>
<td>Intermediate Macro-economic Analysis</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 3420</td>
<td>Consumer Economics</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 3430</td>
<td>Labor Economics and Labor Relations</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 3630</td>
<td>Comparative Economic Systems (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 3730</td>
<td>Money and Banking</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 3830</td>
<td>Public Finance</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 4330</td>
<td>International Economics</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 4930</td>
<td>Senior Seminar</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECONOMIC 4940</td>
<td>Special Problems</td>
<td>1-4 credits</td>
</tr>
<tr>
<td>ENERGY 2130</td>
<td>Energy, Environment and Society</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 2940</td>
<td>Political Economy, Race, Gender, and Ethnicity (EGS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 3230</td>
<td>Human Relations (EGS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 3720</td>
<td>Ethnic Rights and Politics (E)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY 1050</td>
<td>Introduction to Human Geography (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY 1230</td>
<td>Survey of Cultural Geography (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>---------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>AGSCI 3220</td>
<td>Plant Development and Biotechnology</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOLOGY 1150</td>
<td>General Biology</td>
<td>5 credits</td>
</tr>
<tr>
<td>BIOLOGY 1350</td>
<td>General Botany</td>
<td>5 credits</td>
</tr>
<tr>
<td>BIOLOGY 2140</td>
<td>Anatomy and Physiology I</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOLOGY 2240</td>
<td>Anatomy and Physiology II</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIOLOGY 2250</td>
<td>Tropical Marine Ecosystems (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>BIOLOGY 2340</td>
<td>Essentials of Anatomy and Physiology</td>
<td>4 credits</td>
</tr>
<tr>
<td>CHEMSTRY 1050</td>
<td>General Chemistry</td>
<td>5 credits</td>
</tr>
<tr>
<td>CHEMSTRY 1140</td>
<td>General Chemistry</td>
<td>4 credits</td>
</tr>
<tr>
<td>CHEMSTRY 1240</td>
<td>General Chemistry</td>
<td>4 credits</td>
</tr>
<tr>
<td>CHEMSTRY 1450</td>
<td>Chemistry for Engineers</td>
<td>5 credits</td>
</tr>
<tr>
<td>GEOGRAPHY 1040</td>
<td>Planet Earth</td>
<td>4 credits</td>
</tr>
<tr>
<td>GEOGRAPHY 1140</td>
<td>Global Landforms</td>
<td>4 credits</td>
</tr>
<tr>
<td>GEOGRAPHY 1240</td>
<td>Physical Geography: Weather and Climate</td>
<td>4 credits</td>
</tr>
<tr>
<td>GEOGRAPHY 1370</td>
<td>Global Vegetation</td>
<td>4 credits</td>
</tr>
<tr>
<td>GEOGRAPHY 2250</td>
<td>Tropical Marine Ecosystems (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRAPHY 3340</td>
<td>Biogeography</td>
<td>4 credits</td>
</tr>
<tr>
<td>GEOLOGY 1140</td>
<td>Physical Geology</td>
<td>4 credits</td>
</tr>
<tr>
<td>GEOLOGY 1240</td>
<td>Historical Geology</td>
<td>4 credits</td>
</tr>
<tr>
<td>GEOLOGY 2330</td>
<td>History of Life</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHYSICS 1050</td>
<td>Principles of Physics</td>
<td>5 credits</td>
</tr>
<tr>
<td>PHYSICS 1350</td>
<td>Introductory Physics I</td>
<td>5 credits</td>
</tr>
<tr>
<td>PHYSICS 1450</td>
<td>Introductory Physics II</td>
<td>5 credits</td>
</tr>
<tr>
<td>PHYSICS 2240</td>
<td>General Physics I</td>
<td>5 credits</td>
</tr>
<tr>
<td>PHYSICS 2340</td>
<td>General Physics II</td>
<td>4 credits</td>
</tr>
<tr>
<td>PHSC 1150</td>
<td>Physical Science</td>
<td>5 credits</td>
</tr>
<tr>
<td>PHSC 1310</td>
<td>Introductory Astronomy Lab</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHSC 1340</td>
<td>Introductory Astronomy</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

D. Natural Sciences (NS) (9 credits)

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.
**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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS</td>
<td>2330 World Population, Food and Resources (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>AGINDUS</td>
<td>4600 Faculty-Led Short-Term International Experience</td>
<td>3 credits</td>
</tr>
<tr>
<td>AGSCI</td>
<td>4600 Faculty-Led Short-Term International Experience</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART</td>
<td>3530 Art History V: Far Eastern Art (FA)</td>
<td>3 credits</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>2130 Plants and Society</td>
<td>3 credits</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>2250 Tropical Marine Ecosystems (NS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>1300 Global Business</td>
<td>3 credits</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>3750 International Short Study</td>
<td>1-3 credits</td>
</tr>
<tr>
<td>ECONOMIC</td>
<td>3630 Comparative Economic Systems (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>2150 Introduction to Gay Studies (G, HUM second course only)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>2640 World Literature I (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>2650 World Literature II (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>2770 International Cinema (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>3250 Sociolinguistics</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>3260 Language and Culture (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>3830 The World Novel (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>3850 Postcolonial Literature (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>4500 Women and Myth: Goddess, Witch, Sibyl (HUM, G)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>1050 Introduction to Human Geography (IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>1230 Survey of Cultural Geography (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>1330 World Regional Geography (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>2250 Tropical Marine Ecosystems (NS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>3030 Economic Geography (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>3350 Geography and Development of Middle East Geography (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>3430 Geography of Africa (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>3530 Topics in Regional Geography (SS)</td>
<td>2 or 3 credits</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>3630 Geography of Latin America (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>3730 Geography of Europe (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>3930 Geography of Asia (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>3960 Geography of Japan</td>
<td>6 credits</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>4230 Political Geography (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GERMAN</td>
<td>3000 Travel Abroad Seminar (HUM)</td>
<td>1-4 credits</td>
</tr>
<tr>
<td>HISTORY</td>
<td>1020 World Civilization II (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY</td>
<td>3070 Latin American History (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY</td>
<td>3640 Imperialism in Africa and Asia (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY</td>
<td>3650 Women and Gender in Latin American History (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY</td>
<td>3660 Colonial Latin American History (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY</td>
<td>3670 Modern Latin American History (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY</td>
<td>3920 Modern Middle East (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY</td>
<td>3930 East Asia (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY</td>
<td>3950 Modern Japan (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY</td>
<td>3970 Modern China (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY</td>
<td>4110 Russia to 1856 (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY</td>
<td>4120 Modern Russia (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY</td>
<td>2230 Contemporary World Views (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY</td>
<td>2930 Major Traditions in Eastern Religions (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI</td>
<td>1330 International Relations (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI</td>
<td>2430 Comparative Politics (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI</td>
<td>3340 Modern Japan (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI</td>
<td>3350 Modern China (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI</td>
<td>3720 Politics of the Global Economy (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI</td>
<td>3750 International Human Rights (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI</td>
<td>4120 Modern Russia (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>SOCIOLOGY</td>
<td>1130 Introductory Anthropology (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>SOCIOLOGY</td>
<td>2130 Cultural Anthropology (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPANISH</td>
<td>3000 Travel Abroad Seminar (HUM)</td>
<td>1-4 credits</td>
</tr>
<tr>
<td>SPEECH</td>
<td>2300 Intro to Intercultural Comm.</td>
<td>3 credits</td>
</tr>
<tr>
<td>UWPSTUDY</td>
<td>3000 Liberal Arts and Education</td>
<td>1-3 credits</td>
</tr>
<tr>
<td>UWPSTUDY</td>
<td>3020 BILSA Short Term International Experience</td>
<td>1-3 credits</td>
</tr>
<tr>
<td>UWPSTUDY</td>
<td>3030 EMS Short Term International Experience</td>
<td>1-3 credits</td>
</tr>
<tr>
<td>WOMSTD</td>
<td>2150 Introduction to Gay Studies (G, HUM second course only)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD</td>
<td>3650 Women and Gender in Latin American History (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD</td>
<td>4500 Women and Myth: Goddess, Witch, Sibyl (HUM, G)</td>
<td>3 credits</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.)

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

**Courses that count for Ethnic Studies credit (E):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART</td>
<td>2730 Art History IV: Ethnic Art in the U.S. (FA)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART</td>
<td>2750 Native American Art (FA)</td>
<td>3 credits</td>
</tr>
<tr>
<td>CRIMLJUS</td>
<td>2830 Ethnicity, Race, and Crime</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>3410 Chicano Literature (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>3730 Black Literature in America (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>3740 Asian American Literature (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>3750 American Lit of Ethnicity and Immigration (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>3760 Wisconsin Indian Literature (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>2130 The Native American Experience (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>2200 Introduction to Ethnic Studies</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>2230 Black Experience in the U.S.</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>2730 Art History IV: Ethnic Art in the U.S. (FA)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>2750 Native American Art (FA)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>2830 Ethnicity, Race, and Crime</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3010 Race, Gender, and U.S. Labor History (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3240 African-American History: 1619 to present (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3410 Chicano Literature (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3720 Ethnic Rights and Politics (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3730 Black Literature in America (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3740 Asian American Literature (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3750 American Lit of Ethnicity and Immigration (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3760 Wisconsin Indian Literature (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3760 African-American History: 1619 to present (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3770 Space, Place and Gender (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3780 Gender and Popular Culture (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3790 Gay and Lesbian Literature (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3800 Topics in Women’s Studies</td>
<td>2-3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3810 Women and the Arts (FA)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3820 American Women’s History (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3830 Philosophy's Feminist Future (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3840 Women in European Civilization (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3850 Women and the Law (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY</td>
<td>3860 Women and Myth: Goddess, Witch, Sibyl (HUM, IE)</td>
<td>3 credits</td>
</tr>
</tbody>
</table>
Special Academic Programs

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

Pioneer Academic Center for Community Engagement

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 is a scholarship of engagement program that facilitates and supports enhanced student learning through students engaging in community-based projects with community people, actual situations and real consequences. The center’s mission is to nurture a campus environment that empowers students, faculty and community partners to Experience - Grow - Make a Difference.

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

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.

Pre-Chiropractic

Advisor: Wayne Weber
Office: 335 Gardner Hall
Phone: 608.342.1611

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: Wayne Weber
Office: 335 Gardner Hall
Phone: 608.342.1611

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

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

Pre-Law
Advisor: John Rink
Office: 140 Gardner Hall
Phone: 608.342.1795
Co-Advisor: Scott White
Office: 611 Pioneer Tower
Phone: 608.342.1499

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: Wayne Weber
Office: 335 Gardner Hall
Phone: 608.342.1611

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 Tuft
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: Wayne Weber
Office: 335 Gardner Hall
Phone: 608.342.1611

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

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

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

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

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

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

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

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

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

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

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

Pre-Physicians Assistant
Advisor: Wayne Weber
Office: 335 Gardner Hall
Phone: 608.342.1611

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

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

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

Podiatry is 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-Veterinary Medicine
Advisor: Sue Price
Office: 214 Pioneer Tower
Phone: 608.342.1613

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

UW-Platteville advocates an education in which students in any major can blend theory and practice by combining classroom learning with planned and supervised field experiences. Students in the cooperative education programs alternate periods of full-time study with periods of experience in jobs closely related to their individual academic majors and career objectives. UW-Platteville is committed to the belief that cooperative education experiences make a significant contribution to the individual student's personal, social and professional development. Academic credit is granted for the field experience.

Cooperative education programs are managed by the major/program in which the student is enrolled. Students interested in cooperative education programs should contact their departmental office for further information.

Education Abroad

Contact: Donna Anderson
Office: 111 Royce Hall
Phone: 608.342.1726

The Education Abroad Office was established at UW-Platteville in 1981 to develop and coordinate education abroad programs for the university and to provide resources in southwestern Wisconsin for international studies.

The Education Abroad Office provides university students with an opportunity to continue their education while extending their awareness of other cultures and peoples through semester, full academic year and short-term programs during the winter, spring and summer breaks. There are over 700 different program options accommodating more than 200 areas of study for UW-Platteville students in over 50 different countries across the globe. Opportunities abroad include: study abroad, international exchange, student teaching, volunteer, service learning and internships. Students who study abroad through a UW-Platteville-sponsored (approved) program will have their financial aid applied automatically toward their education abroad-related fees on their student account. In addition, there are many scholarships available including the $1,800 UW-Platteville International Study Grant.

National Student Exchange Program

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

The National Student Exchange Program is designed to provide UW-Platteville students an opportunity to study at more than 170 other NSOFTWARE 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 NSOFTWARE institutions.

For further information about this highly successful and unique program, please contact the NSOFTWARE coordinator or assistant at 608.342.1127 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.uw-platt.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 foundations of early childhood education; child development; health, safety and nutrition; guiding children’s behavior; art, music and language arts; and preschool credential 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.

Students must successfully complete the necessary remedial courses prior to completion of 30 credits. Students may not register for more than a total of 15 credits of academic work per term until they have satisfied their deficiencies. 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: Assistant 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.
The Karrmann Library is a modern learning resource center that provides a diversity of information accessible through computerized indexes to the library's collections. The collections include 272,000 books, bound periodicals and Instructional Material Laboratory printed items; over 100 subscription databases, many of which offer full-text journal articles; 90,000 government publications; 11,000 audiovisual materials; 20,000 maps; 1,000,000 microforms; and subscriptions to more than 1,200 periodicals, 60 newspapers and 1,200 other serial titles. Many more journal and newspaper titles are offered full-text online. A statewide interlibrary loan network among UW libraries supplements these materials.

The library's web page, accessible from the main UW-Platteville page, provides access to a wide variety of electronic resources available on the Internet, including full-text articles. The library's resources can be accessed either in the library or remotely from computer labs, residence hall rooms, offices or homes. Reference service is always available on the main floor of the library, by telephone at 608.342.1668 or by e-mailing “Ask a Librarian!” off the library homepage.

To facilitate use, this carpeted and air-conditioned building contains several computer labs, a variety of study areas, reading rooms and individual carrels. In addition, the library includes audiovisual equipment including listening areas, photocopy equipment, microform readers and special collection areas. All of these resources, along with a helpful and friendly staff, reflect the library's commitment to supporting individual study and research.

Library Use Instruction
University librarians are available to provide library use instruction for any classes or to assist with any assignment-specific needs. Arrangements are made with the librarian assigned to work with a specific department.

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 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 staff the labs 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 and residence halls 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 full electronic mail capability and access to UW-Platteville computer 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 and staff 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.
Learning Technology Center

www.uwplatt.edu/ltc
www.uwplatt.edu/pioneersolutions

The Learning Technology Center, located on the fourth floor of Kar mann Library, provides a myriad of training and support services ranging from productivity training to assistance with online delivery of course and departmental information. Working closely with the Office of Information Technology and Media Technology Services, the LTC offers high quality instruction in areas of professional and technical development. Services of the LTC are available at no cost to faculty, staff and students of UW-Platteville.

Faculty, Staff and Student Training
The LTC offers training and instruction throughout the year. Training is free and covers a full range of classes, including electronic mail and calendar, word processing, spreadsheets, information resources, course management systems and other technologies used in the classroom. Training schedules are revised regularly to meet the information resource and technology needs of the campus community. In addition, orientations for newcomers to campus are coordinated with campus-wide orientation programs. Consult the LTC’s Pioneer Solutions (www.uwplatt.edu/pioneersolutions) website for additional information.

Instructional Technology
The LTC promotes and supports the use of web utilities for the enhancement of on-campus course content delivery. LTC staff work directly with faculty to provide technical and instructional support for those teaching staff and faculty interested in utilizing the web or other technologies in teaching.

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.

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.
Student Affairs

Advising and Career Exploration Services

**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.

Athletics

**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.

Career Center

**Location:** Ulssvik Hall  
**Phone:** 608.342.1183

The office provides literature (handouts, books and magazines) on job search topics. The Employer Information Library includes current literature, employer directories, corporate videos and company CDs to help students prepare for the job search and interviews. An annual report is published which includes surveys and employment information on recent UW-Platteville grads by major.

Workshops are scheduled each semester on topics such as networking, mock interview days and professional etiquette. Students receive individual, one-on-one assistance with writing resumes and cover letters. Opportunities for full-time work, internships, co-ops or summer jobs are made available to students through the fall and spring Career Fair events and web-based recruiting software.

All students are invited and encouraged to utilize Career Center services and visit www.uwplatt.edu/careercenter.

Children’s Center

**Phone:** 608.342.1260

The UW-Platteville Children’s Center provides excellent child care services and educational experiences for children of UW-Platteville students and employees. 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 p.m. during the academic year, interim periods and summer session. Children must be between two and nine years of age to enroll.

Lead teachers who hold a degree in the field of early childhood or elementary education 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 program. For further information, visit us at www.uwplatt.edu/children.

Counseling Services

**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 also 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.

In addition, the Graduate Record Exam Subject Tests are administered through Counseling Services. Visit us at www.uwplatt.edu/counseling.
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 is conveniently located near the residence halls and is the all-you-care-to-eat dining facility housed in Glenview Commons. Platters is a buffet-style arrangement 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. Greenwood Avenue Market is a convenience store located in the lower level of Glenview Commons that offers a variety of groceries, health and beauty items and a café serving burgers, pizza, grilled sandwiches and grab and go deli items.

The Markee Pioneer Student Center is home to several dining service venues. Pioneer Crossing features made-to-order subs, a grill station, Asian, Mexican and traditional home-cooked favorites along with a soup and salad bar. Pioneer Perk is a coffee and snack shop that "Proudly Brews Starbucks® Coffee" with grab and go items. Pioneer Haus is the place to watch favorite teams on the big screen, play darts, foosball or enjoy live entertainment while enjoying delicious pub menu items including chicken wings and flatbread pizzas.

Hickory and Main Corner Bistro is a convenient coffee house and deli shop in Ullsvik Hall. It features specialty sandwiches, soups, and grab and go items. This location also "Proudly Brews Starbucks® Coffee" with a full coffee bar and tea selection.

For more information, visit us at www.uwplatt.edu/diningservices.

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. For more information, visit www.uwplatt.edu/intramurals.

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.

The purpose of the Multicultural Educational Resource Center is to promote a university environment that is conducive to the recruitment, retention and graduation of minority and disadvantaged students. Though the emphasis is on students of color, the MERC is available to the university and tri-state community. Educational goals include the promotion of higher retention rates, measurement of academic achievement and graduation. Counseling is available in the areas of academic, personal and social concerns.

The MERC facilitates interaction of persons of diverse cultural, ethnic and racial origins with other constituencies of the university community. The MERC encourages diverse cultural programming by Campus Programming and Relations and provides assistance for student organizations, including ASIA Club, Black Student Union, Hmong Student Organization of LATINOS and Intertribal Council.

The office is open Monday through Friday from 7:45 a.m. to 4:15 p.m. Feel free to walk-in and speak with an advisor or call with any questions or concerns. For more information, visit www.uwplatt.edu/merc.

Patricia A. Doyle Women’s Center

Women’s Center’s main activities. For more information, visit us at www.uwplatt.edu/womensctr or e-mail womensctr@uwplatt.edu.

Pioneer Activity Center

Pioneer Haus is the place to watch favorite teams on the big screen, 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.

Residence Halls

Location: First Floor Royce Hall
Phone: 608.342.1845
E-mail: housing@uwplatt.edu
reslife.saf.uwplatt.edu/housing

Living on campus in one of the 10 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 240-380 residents, with a total residence hall population of over 2,700 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 reslife.saf.uwplatt.edu/resnet 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 exemption and are officially released by the Office of Student Housing. 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 Office of Student Housing.

Student Health Services

Location: Second Floor, Royce Hall
Phone: 608.342.1891

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.

It is expected that entering students will have a pre-admission physical exam. Students are also expected to complete the SHS health history form and provide a record of immunizations. The SHS informational brochure and the pre-entrance health history form are provided to students after their admission to the university.

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 is available on campus and is available to all registered students each fall. Enrollment details are available during registration or from SHS.

Residency Services for Students with Disabilities

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
Location: 105 Warner Hall
Phone: 608.342.1816
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: 1) first-generation college students (neither parent has a four-year college degree); 2) income eligible students (based on taxable income); or 3) students with disabilities.

SSS provides assistance to students who may need extra help or have not had appropriate preparation necessary to succeed in the university. SSS provides students with:

- Tutoring in most 1000 and 2000 level courses, and selected 3000–4000 level courses
- Workshops on reading, study skills, algebra skills, computational skills, pre-computer and word processing
- Counseling/advising in academic issues, personal concerns and career planning matters
- A learning disability specialist for individualized assistance with learning styles and study skills, support and advocacy, and progress monitoring

These services 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. Visit us at www.uwplatt.edu/stusuppserv.

Textbook Center
Location: 031 Dounda Hall
Phone: 608.342.1265
Required textbooks are rented at the Textbook Center. Textbook rental fees are part of the segregated fees paid by students.

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
Location: 314 Brigham Hall
Phone: 608.342.1615
Writing and Tutoring Resources is home to University Tutoring Services and the Writing Center.

University Tutoring Services
Location: 302 Brigham Hall
Phone: 608.342.1615
University Tutoring Services offers tutoring to the entire student body in a wide variety of courses. Services are available to any student, for a minimal fee, regardless of skill level or grade point average. The office will also arrange for skilled subject-area facilitators for small study groups. Tutors and facilitators are UW-Platteville students who have received an “A” or a “B” or tested out of the course they are tutoring.

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 5 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.

Student Centers
Location: Markee Pioneer Student Center
Phone: 608.342.1160
Students can get in touch with their fun side with Student Centers! Student Centers serves as the center of the campus community and encompasses several offices. These include five key areas:

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 and Learning Center and the management of Design Services. 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.

Involvement is responsible for managing the daily operations of the Pioneer Involvement Center and PioneerLink; providing involvement opportunities and leadership development programs; managing the university’s student organizations, including the Greek community; and contributing to first year opportunities and diversity initiatives of the university. PioneerLink is the online student organization information system used for managing procedures and records relating to student organizations and providing student organizations with tools and resources for communicating and managing their organization.
Performing Arts Facilities and Services is responsible for the daily operation of the Center for the Arts, and Harry and Laura Nohr Gallery, including supervision of the Performing Arts Series and University Box Office.

Programming and Special Events is responsible for supervising Campus Programming and Relations, planning and implementing new student orientation, Homecoming week, family weekend programs and managing performance negotiation worksheets and contracts. CPR is responsible for producing diverse educational, cultural, social and recreational programs as part of the broad curriculum at UW-Platteville.

Campus Programming and Relations

Location: Pioneer Involvement Center, Markee Pioneer Student Center
Phone: 608.342.1497

Campus Programming and Relations offers diverse educational, cultural, social and recreational entertainment programs as part of the broad curriculum at UW-Platteville. CPR has some great events scheduled throughout the year which include billiards and video game tournaments, Disc Golf tournaments, Open Mic night, a diverse lecture series and Stand-Up Saturdays. Student staff produces the events in the areas of community engagement, music features, current issues, Homecoming Pioneer adventures, movies and special events. These events offer a rich variety of activities for students, staff, faculty, alumni and guests. For more information, stop by the CPR office in the Pioneer Involvement Center or visit the CPR website.

Center for the Arts

Location: Center for the Arts
Phone: 608.342.1298

The Center for the Arts provides a professional performing arts environment for the campus and community to experience the arts through classroom learning and quality cultural and performing arts events. The CFA hosts more than 150 fine arts events during the year including music theatre, dance, drama, children’s theatre productions, orchestra concerts, choral performances, jazz bands, student recitals, the Performing Arts Series and the Heartland Festival. The CFA also hosts other events including campus orientations, Pioneer Previews and Campus Programming and Relations-sponsored events, such as comedians, speakers, hypnotists and musical performances.

The facility includes the 565-seat Richard and Helen Brodbeck Concert Hall, a 200-seat theater, box office, instrumental and vocal classrooms, dressing rooms and scene and costume shops. Student and university organizations, university departments, as well as off-campus groups may reserve the CFA for fine art programming. To reserve the facility, contact the Event Management and Reservations office at 608.342.1451 or stop by the Student Centers Administration Office in the Markee Pioneer Student Center. To request more information, purchase tickets or to be added to the CFA event mailing list, call the University Box Office at 608.342.1298. The CFA is always looking for volunteer ushers. To see a list of shows available, stop by the University Box Office in Ullsvik Hall.

More information and policies can be found at www.uwplatt.edu/cfa.

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 Pioneer Student Center opened on April 1, 2002. More than just a building, the Markee PSC 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 PSC 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 PSC 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 PSC. Events include live music, comedians, speakers, hypnotists and musical performances. 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 PSC include the University Bookstore, Pioneer Passport Office, Information Center and Rental Resources.

Cultivating enduring loyalty to the campus community, the Markee PSC 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 PSC as a commemoration of rich campus traditions. In the north area of Heritage Hall is a mural depicting historic buildings,
Event Management and Reservations
Location: Markee Pioneer Student Center
Phone: 608.342.1451

Event Management and Reservations manages the event facilities in Ullsvik Hall, the Center for the Arts and Markee Pioneer Student Center, 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 Management and Reservations, stop by the Student Centers Administrative Office in the Markee PSC or visit the Markee PSC website.

Greek Life
Location: Pioneer Involvement Center, Markee Pioneer Student Center
Phone: 608.342.1075

Joining a fraternity or sorority is a great way to enhance the collegiate experience by providing opportunities to develop important academic and leadership skills as well as a strong sense of belonging. All Greek organizations were founded on the principle of brotherhood and sisterhood and nurturing positive personal development. The Greek community focuses on scholarship/academic achievement; membership recruitment and development; chapter development/operations; campus, community and university relations; social event responsibility; judicial operations; leadership and ethical development; along with community service and philanthropic opportunities. For more information, stop by the Pioneer Involvement Center or visit the PIC or PioneerLink websites.

Harry and Laura Nohr Gallery
Location: Ullsvik Hall
Phone: 608.342.1298 or (877) 727-1232

Located in 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. To reserve the facility, contact the Event Management and Reservations office at 608.342.1451, or stop by the Student Centers Administration Office in the Markee Pioneer Student Center. For more information, visit the Nohr Gallery website.

Performing Arts Series
Location: University Box Office, Ullsvik Hall
Phone: 608.342.1298

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 at tickets.uwplatt.edu.

Pioneer Involvement Center
Location: Markee Pioneer Student Center
Phone: 608.342.1075

The Pioneer Involvement Center's mission is to create collaborative, co-curricular programs, events and processes supporting student leadership and involvement opportunities contributing to student retention and encouraging diversity.

Pioneer Involvement includes several programs, services and resources for students to get involved. Student Organization Development focuses on strengthening student organizations. Greek Life focuses on promoting a positive learning environment for students wanting to gain leadership skills in a living community with shared values and principles. Leadership Development and Involvement Opportunities strive to connect students to experiential learning and enhance leadership skill development. First Year Involvements develop opportunities for new students to get connected to the university and know how to access resources to succeed. Support Services assist with promotion of events and takes pride in connecting the campus with the correct information or the right resource. The PIC is also the location of several student governance organizations. For more information, stop by the PIC or visit the PIC or PioneerLink websites.

Rental Resources
Location: Pioneer Involvement Center, Markee Pioneer Student Center
Phone: 608.342.6117

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 Student Centers Development and located in the Pioneer Involvement Center. For more information, stop by the PIC in the Markee PSC or visit the Rental Resources website.

Student Organization Development
Location: Pioneer Involvement Center, Markee Pioneer Student Center
Phone: 608.342.1075

One of the many ways to get connected at UW-Platteville is by joining one of the more than 170 registered student organizations whose members have similar interests to other students. It takes only 10 enthusiastic students and a faculty advisor to create an organization. Being a member of a student organization provides an opportunity for students to develop leadership and communication skills. The enjoyment of collaborating and achieving goals, as well as the interpersonal connections made possible by forming a group, create one of the most valuable experiences that students will have at UW-Platteville. For more information, stop by the Pioneer Involvement Center or visit the PIC or PioneerLink websites.
College of Business, Industry, Life Science and Agriculture

www.uwplatt.edu/bilsa

Dean: Duane Merlin Ford
Assistant Dean: Jodi McDermott
Office: 166 Pioneer Tower
Phone: 608.342.1547
E-mail: bilsa@uwplatt.edu

School and Departments
School of Agriculture
Department of Biology
Department of Business and Accounting
Department of Communication Technologies
Department of Industrial Studies

The College of Business, Industry, Life Science and Agriculture offers degree programs in agriculture, biology, business and accounting, communication technologies and industrial studies. With its emphasis on both theoretical and applied knowledge, the college is committed to educational excellence within a diverse learning community. As a resource center, BILSA promotes cooperative interactions with organizations in the public and private sectors.

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

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

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

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

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

Alternate Delivery Methods
BILSA offers a print-based and online degree program in business administration for students unable to attend on-campus classes. This program allows participants the opportunity to obtain their entire college degree without leaving their geographic location. For more information about this program, refer to the UW-Platteville Department of Business Administration.
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:
Kevin Bernhardt
Michael Compton
Thomas Hunt
Michael O. Mee
Susan G. Price
Rami Reddy
John Tembei
Mark Zidon

Academic Staff:
Dennis Busch
Dawn Lee
Jodi McDermott
Randy Mentz
Alicia Prill-Adams
Cory Weigel
Phil Wyse

Associate Professors:
Christopher Baxter
Richard Bockhop
Annie Kinwa-Muzinga

Academic Department
Associates:
Sharon Pete
Sandy Mester

Assistant Professors:
Donita Bryan
Kris Mahoney
Denise McNamara
Tera Montgomery
Charles Steiner

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
Animal Science
Biotechnology
Ornamental Horticulture
Soil and Crop Science
Pre-Professional Programs
Pre-Veterinary Medicine

School of Agriculture Vision
The UW-Platteville School of Agriculture strives to be the best agricultural programs in the upper Midwest. Graduates of the School of Agriculture are recognized for their theoretical knowledge and its practical application in the field of agriculture. Our graduates are also known for their ability to effectively communicate, diagnose and solve problems, think creatively, be active leaders in agriculture and their community, understand the global nature of agriculture and embrace people of diverse cultures. Upon graduation, our graduates are prepared to serve the agricultural industry through immediate employment and career development or to pursue graduate studies. Faculty and staff in the School of Agriculture are leaders in society through teaching, research and service to the agricultural community.

Basic Values
The School of Agriculture endorses the values outlined by UW-Platteville. In addition, the School of Agriculture is guided by the following values:

- High quality educational programs that prepare students for careers in agriculture
- Student excellence in knowledge of agriculture, communication, problem-solving, global awareness, diversity awareness, work experience and leadership
- Engagement with students before, during and after their undergraduate experience at UW-Platteville
- Knowledgeable faculty and staff who strive for excellence
- Theoretical and practical experiences for students
- Research as a component of the School of Agriculture and the faculty, staff and student experiences
- Service to the community, the state of Wisconsin and society

Academic Staff:
Dennis Busch
Dawn Lee
Jodi McDermott
Randy Mentz
Alicia Prill-Adams
Cory Weigel
Phil Wyse

Assistant Professors:
Donita Bryan
Kris Mahoney
Denise McNamara
Tera Montgomery
Charles Steiner

Professor:
Kevin Bernhardt
Michael Compton
Thomas Hunt
Michael O. Mee
Susan G. Price
Rami Reddy
John Tembei
Mark Zidon

Associate Professor:
Christopher Baxter
Richard Bockhop
Annie Kinwa-Muzinga

Academic Department
Associate:
Sharon Pete
Sandy Mester

Basic Values
The School of Agriculture endorses the values outlined by UW-Platteville. In addition, the School of Agriculture is guided by the following values:

- High quality educational programs that prepare students for careers in agriculture
- Student excellence in knowledge of agriculture, communication, problem-solving, global awareness, diversity awareness, work experience and leadership
- Engagement with students before, during and after their undergraduate experience at UW-Platteville
- Knowledgeable faculty and staff who strive for excellence
- Theoretical and practical experiences for students
- Research as a component of the School of Agriculture and the faculty, staff and student experiences
- Service to the community, the state of Wisconsin and society

Academic Staff:
Dennis Busch
Dawn Lee
Jodi McDermott
Randy Mentz
Alicia Prill-Adams
Cory Weigel
Phil Wyse

Assistant Professors:
Donita Bryan
Kris Mahoney
Denise McNamara
Tera Montgomery
Charles Steiner

Professor:
Kevin Bernhardt
Michael Compton
Thomas Hunt
Michael O. Mee
Susan G. Price
Rami Reddy
John Tembei
Mark Zidon

Associate Professor:
Christopher Baxter
Richard Bockhop
Annie Kinwa-Muzinga

Academic Department
Associate:
Sharon Pete
Sandy Mester

Basic Values
The School of Agriculture endorses the values outlined by UW-Platteville. In addition, the School of Agriculture is guided by the following values:

- High quality educational programs that prepare students for careers in agriculture
- Student excellence in knowledge of agriculture, communication, problem-solving, global awareness, diversity awareness, work experience and leadership
- Engagement with students before, during and after their undergraduate experience at UW-Platteville
- Knowledgeable faculty and staff who strive for excellence
- Theoretical and practical experiences for students
- Research as a component of the School of Agriculture and the faculty, staff and student experiences
- Service to the community, the state of Wisconsin and society

Academic Staff:
Dennis Busch
Dawn Lee
Jodi McDermott
Randy Mentz
Alicia Prill-Adams
Cory Weigel
Phil Wyse

Assistant Professors:
Donita Bryan
Kris Mahoney
Denise McNamara
Tera Montgomery
Charles Steiner

Professor:
Kevin Bernhardt
Michael Compton
Thomas Hunt
Michael O. Mee
Susan G. Price
Rami Reddy
John Tembei
Mark Zidon

Associate Professor:
Christopher Baxter
Richard Bockhop
Annie Kinwa-Muzinga

Academic Department
Associate:
Sharon Pete
Sandy Mester

Basic Values
The School of Agriculture endorses the values outlined by UW-Platteville. In addition, the School of Agriculture is guided by the following values:

- High quality educational programs that prepare students for careers in agriculture
- Student excellence in knowledge of agriculture, communication, problem-solving, global awareness, diversity awareness, work experience and leadership
- Engagement with students before, during and after their undergraduate experience at UW-Platteville
- Knowledgeable faculty and staff who strive for excellence
- Theoretical and practical experiences for students
- Research as a component of the School of Agriculture and the faculty, staff and student experiences
- Service to the community, the state of Wisconsin and society
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 for students that desire to extend their education beyond the borders of the United States. Available minors include agribusiness, animal science, biotechnology, 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.

Facilities
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 10 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 agribusi-

ness, ornamental horticulture, and soil and crop science are required to complete at least one, three-credit internship 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS 1500</td>
<td>Introduction to Agribusiness</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 1750</td>
<td>Equipment, Structures and Power Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 1000</td>
<td>Introduction to Animal Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 1240</td>
<td>The Plant-Soil Environment</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
Agribusiness

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 I 1 cr
AGINDUS 3410 Agricultural Consulting and Sales 3 cr
AGINDUS 3430 Quantitative Methods in Agribusiness 3 cr
AGINDUS 3450 Agribusiness Professional Development II 3 cr
AGINDUS 3460 Farm Management and Record Systems 3 cr
AGINDUS 4500 Agribusiness Management 3 cr
AGINDUS 4580 Agribusiness Internship 3 cr
COMMCTN 3010 Business Communications 3 cr
MATH 1830 Elementary Statistics 3 cr
ECONOMIC 2230 Principles of Microeconomics 3 cr

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

Agribusiness Comprehensive Major

Coursework includes completion of required core and an emphasis area.

Required Core SOA Courses (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):
MATH 1830 Elementary Statistics 3 cr
ECONOMIC 2230 Principles of Microeconomics 3 cr
ACCTING 2010 Financial Accounting 3 cr
ACCTING 2020 Managerial Accounting 3 cr
AGINDUS 2430 Agricultural Marketing 3 cr
AGINDUS 2450 Agribusiness Professional Development I 1 cr
COMMCTN 3010 Business Communications 3 cr
AGINDUS 3410 Agricultural Consulting and Sales 3 cr
AGINDUS 3430 Quantitative Method 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)

Required Courses (17 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  3 cr
AGINDUS 4620  Agricultural Commodity Price Forecasting  2 cr

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

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

### Management Emphasis (30 credits)

**Required Courses (18 credits):**

- AGINDUS 3420  Agricultural Finance  3 cr
- BUSADMIN 3530  Organizational Behavior  3 cr
- AGINDUS 4330  Agribusiness Marketing Management  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):**

- COMMNCTN 2360  Public Relations Principles  3 cr
- BUSADMIN 3630  Advertising  3 cr
- COMMNCTN 3920  Promotional Techniques  3 cr
- AGINDUS 4330  Agribusiness Marketing Management  3 cr

**One of the following classes:**

- COMMNCTN 3800  Meetings and Events  3 cr
- COMMNCTN 4270  Volunteers, Fundraising and Grants  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.

### 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
- 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.

**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

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):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS 1500</td>
<td>Introduction to Agribusiness</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 1750</td>
<td>Equipment, Structure and Power Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 1000</td>
<td>Introduction to Animal Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 1240</td>
<td>The Plant-Soil Environment</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Required Agricultural Education Courses (5 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS 2920</td>
<td>Introduction to Agriculture and Extension Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>AGINDUS 3900</td>
<td>Planning Cooperative Education in Agriculture</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Required Crops/Soils/Ornamental Horticulture Courses (7 credits):

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

Required Ag Business Courses (9 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS 2430</td>
<td>Agricultural Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 2500</td>
<td>Producer and Consumer Cooperatives</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 3460</td>
<td>Farm Management and Record Systems</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

AGINDUS 4500 Agribusiness Management 3 cr

Required Animal Science Courses (10 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 2020</td>
<td>Introduction to Dairy Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3000</td>
<td>Animal Nutrition</td>
<td>4 cr</td>
</tr>
<tr>
<td></td>
<td>Animal science elective</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Required Engineering Technology Courses (9 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSDY 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>
</tr>
<tr>
<td></td>
<td>Agribusiness Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>Technology elective</td>
<td></td>
</tr>
</tbody>
</table>

Required Education Courses (40 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING 1000</td>
<td>Admission to School of Education</td>
<td>0 cr</td>
</tr>
<tr>
<td>TEACHING 1230</td>
<td>Introduction to Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 2010</td>
<td>Computer Applications in Education</td>
<td>1 cr</td>
</tr>
<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>
</tr>
<tr>
<td>TEACHING 3120</td>
<td>Characteristics of Transcendents</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 3320</td>
<td>Psychology of Learning and the</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>Exceptional Child</td>
<td></td>
</tr>
<tr>
<td>TEACHING 3630</td>
<td>Ethnic and Gender Equity in Education</td>
<td>3 cr</td>
</tr>
<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 4660</td>
<td>Student Teaching</td>
<td>12 cr</td>
</tr>
<tr>
<td>TEACHING 4990</td>
<td>Licensure Portfolio</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSDY 4820</td>
<td>Principles of Vo-Tech Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>AGINDUS 4930</td>
<td>Teaching Cooperative Education</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>in Agriculture</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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.

Requirements for Admission to Teacher Education
To be eligible for admission, teacher candidates must meet the following minimum requirements:

1. Successfully complete the Pre-Professional Skills Test. Passing scores for the PPST are reading 175, writing 174 and mathematics 173. Teacher candidates should take the PPST during their first year at UW-Platteville.
2. Earn grades of “C” or better in the following courses:
   - Freshman Composition (ENGLISH 1130 and ENGLISH 1230), Speech (SPEECH 2010 is strongly recommended, though SPEECH 1010 will satisfy the requirement),
   - TEACHING 1230 Introduction to Education or PHYS ED 2320 Introduction to Physical Education, and COMPUT-
ER 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
or
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 3 cr
TEACHING 3110 Key Concepts of Middle Level Education 2 cr
TEACHING 3120 Characteristics of Transcendents 2 cr
TEACHING 3320 Psychology of Learning and the Exceptional Child 3 cr
TEACHING 3630 Ethnic and Gender Equity in Education 3 cr
TEACHING 4020 Educational Media Technology 2 cr
TEACHING 4210 Pre-Student Teaching 1 cr
TEACHING 4660 Student Teaching 12 cr
TEACHING 4990 Licensure Portfolio 3 cr
AGINDUS 4820 Principles of Vo-Tech Education 2 cr
AGINDUS 3900 Planning Cooperative Education in Agriculture 3 cr
or
INDUSTDY 4640 Curriculum and Facilities Planning 3 cr
AGINDUS 4930 Teaching Cooperative Education in Agriculture 3 cr
or
INDUSTDY 3930 Teaching Technology Education 3 cr

Requirements for Admission to Teacher Education
To be eligible for admission, teacher candidates must meet the following minimum requirements:

1. Successfully complete the Pre-Professional Skills Test. Passing scores for the PPST are reading 175, writing 174 and mathematics 173. Teacher candidates should take the PPST during their first year at UW-Platteville
2. Earn grades of “C” or better in the following courses: Freshman Composition (ENGLISH 1130 and ENGLISH 1230), Speech (SPEECH 2010 is strongly recommended, though SPEECH 1010 will satisfy the requirement), TEACHING 1230 Introduction to Education or 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 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 4 cr
  or
- AGSCI 3260 Seed and Grain Crops 3 cr
  or
- AGSCI 3350 Soil Fertility and Fertilizers 3 cr
  or
- AGSCI 3330 Soil Morphology and Classification 3 cr

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

Required Agribusiness Courses (14 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
  or
- AGINDUS Agribusiness electives 5 cr

Required Agribusiness Engineering Technology Courses (14 credits):
- AGINDUS 3830 Engines and Tractor Systems 3 cr
- AGINDUS 3950 Soil and Water Conservation 3 cr
- AGINDUS 4890 Structures and Environmental Control 3 cr

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

Required Crops/Soils/Ornamental Horticulture Courses (9 credits):
- AGSCI 2230 Soils 3 cr
  or
- AGSCI 3260 Seed and Grain Crops 3 cr
- AGSCI 3350 Soil Fertility and Fertilizers 3 cr
  or
- AGSCI 3330 Soil Morphology and Classification 3 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 Agribusiness 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
  or
- AGINDUS 4500 Agribusiness Management 3 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: John N. Tembei
Office: 223 Pioneer Tower
Phone: 608.342.1063
E-mail: tembei@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 Major (36 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 (17 credits):
- AGSCI 3000 Animal Nutrition 4 cr
- AGSCI 3020 Anatomy and Physiology of Domestic Livestock 4 cr
- AGSCI 3030 Genetics of Livestock Improvement 3 cr
- AGSCI 4110 Reproductive Physiology of Domestic Animals 4 cr
- AGSCI 4190 Seminar in Animal Science and Biotechnology 3 cr

Two courses from (8 credits):
- AGSCI 4030 Beef Management 4 cr
- AGSCI 4040 Swine Management 4 cr
- AGSCI 4070 Dairy Cattle Management 4 cr

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

Electives (9 credits):
- AGSCI 1200 Animal Science Management 3 cr
- AGSCI 2000 Meat Animal Evaluation 3 cr
- AGSCI 2020 Introduction to Dairy Science 3 cr
- AGSCI 2050 Dairy Cattle Evaluation 3 cr
- AGSCI 2600 Companion Animal Care and Management 3 cr
- AGSCI 3070 Biotechnology in Animal Science 3 cr
- AGSCI 3120 Topics in Animal Health 3 cr
- AGSCI 3600 Ration Formulation/Evaluation 3 cr
- AGSCI 4080 Ruminant Nutrition 3 cr
- AGSCI 4090 Monogastric Nutrition 3 cr
- AGSCI 4120 Animal Rights and Welfare Social Movements 3 cr
- AGSCI 4140 Meat Processing 3 cr
- AGSCI 4150 Biology of Lactation 3 cr
- AGSCI 4200 Individual Study in Animal Science 1-4 cr

Other courses as approved by advisor

Animal Science Comprehensive Major (60 credits)

Required Core SOA Courses (12 credits):
- AGINDUS 1500 Introduction to Agribusiness 3 cr
- AGINDUS 1750 Equipment, Structure and Power Systems 3 cr

61
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 1000</td>
<td>3 cr</td>
<td>Introduction to Animal Science</td>
</tr>
<tr>
<td>AGSCI 1240</td>
<td>3 cr</td>
<td>The Plant-Soil Environment</td>
</tr>
</tbody>
</table>

**Required Animal Science Courses (17 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 3000</td>
<td>4 cr</td>
<td>Animal Nutrition</td>
</tr>
<tr>
<td>AGSCI 3020</td>
<td>3 cr</td>
<td>Anatomy and Physiology of Domestic Animals</td>
</tr>
<tr>
<td>AGSCI 3030</td>
<td>3 cr</td>
<td>Genetics of Livestock Improvement</td>
</tr>
<tr>
<td>AGSCI 4110</td>
<td>4 cr</td>
<td>Reproductive Physiology of Domestic Animals</td>
</tr>
<tr>
<td>AGSCI 4190</td>
<td>3 cr</td>
<td>Seminar in Animal Science and Biotechnology</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 4030</td>
<td>4 cr</td>
<td>Beef Management</td>
</tr>
<tr>
<td>AGSCI 4040</td>
<td>4 cr</td>
<td>Swine Management</td>
</tr>
<tr>
<td>AGSCI 4070</td>
<td>4 cr</td>
<td>Dairy Cattle Management</td>
</tr>
</tbody>
</table>

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

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

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

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

**Agribusiness Emphasis**

**Required Courses (12 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS 2430</td>
<td>3 cr</td>
<td>Agricultural Marketing</td>
</tr>
<tr>
<td>AGINDUS 3410</td>
<td>3 cr</td>
<td>Agriculture Consulting/Sales</td>
</tr>
<tr>
<td>AGINDUS 3460</td>
<td>3 cr</td>
<td>Farm Management and Record Systems</td>
</tr>
<tr>
<td>AGINDUS 3500</td>
<td>3 cr</td>
<td>Agricultural Prices and Risk Management</td>
</tr>
</tbody>
</table>

**Electives (20 credits):**

Other courses approved by advisor

**Dairy Emphasis**

**Required Courses (12 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 2020</td>
<td>3 cr</td>
<td>Introduction to Dairy Science</td>
</tr>
<tr>
<td>AGSCI 2050</td>
<td>3 cr</td>
<td>Dairy Cattle Evaluation</td>
</tr>
<tr>
<td>AGSCI 4080</td>
<td>3 cr</td>
<td>Ruminant Nutrition</td>
</tr>
<tr>
<td>AGSCI 4150</td>
<td>3 cr</td>
<td>Biology of Lactation</td>
</tr>
</tbody>
</table>

**Electives (20 credits):**

Other courses approved by advisor

**International Emphasis**

**Required (12 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS 2330</td>
<td>3 cr</td>
<td>World Population, Food and Resources</td>
</tr>
<tr>
<td>SPEECH 2300</td>
<td>3 cr</td>
<td>Introduction to Intercultural Communication</td>
</tr>
<tr>
<td>ENGLISH 3260</td>
<td>3 cr</td>
<td>Language and Culture</td>
</tr>
</tbody>
</table>

**One course from:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADMIN 1300</td>
<td>3 cr</td>
<td>Global Business</td>
</tr>
<tr>
<td>BUSADMIN 3720</td>
<td>3 cr</td>
<td>International Marketing</td>
</tr>
<tr>
<td>BUSADMIN 4140</td>
<td>3 cr</td>
<td>International Management</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.*

**International Education Electives (3-12 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Foreign language course beyond second semester</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Any university course approved for international education</td>
</tr>
<tr>
<td></td>
<td></td>
<td>credit not being used to meet the university international three credit requirement.</td>
</tr>
</tbody>
</table>

**Animal Science Electives (9 credits):**

Other courses approved by advisor

**Meat and Livestock Emphasis**

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 2000</td>
<td>3 cr</td>
<td>Meat Animal Evaluation</td>
</tr>
<tr>
<td>AGSCI 4120</td>
<td>3 cr</td>
<td>Animal Rights and Welfare Social Movements</td>
</tr>
<tr>
<td>AGSCI 4140</td>
<td>3 cr</td>
<td>Meat Processing</td>
</tr>
</tbody>
</table>

**One of the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 4080</td>
<td>3 cr</td>
<td>Ruminant Nutrition</td>
</tr>
<tr>
<td>AGSCI 4090</td>
<td>3 cr</td>
<td>Monogastric Nutrition</td>
</tr>
</tbody>
</table>

**One of the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 3240</td>
<td>4 cr</td>
<td>Microbiology</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGINDUS 4400</td>
<td>3 cr</td>
<td>Livestock and Meat Marketing</td>
</tr>
</tbody>
</table>

**Electives (16-17 credits):**

Other courses approved by advisor

**Science Emphasis**

**Required Courses (26 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMISTRY 1240</td>
<td>4 cr</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>CHEMISTRY 3540</td>
<td>4 cr</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>CHEMISTRY 4630</td>
<td>3 cr</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>BIOLOGY 3240</td>
<td>4 cr</td>
<td>Microbiology</td>
</tr>
<tr>
<td>PHYSICS 1350</td>
<td>5 cr</td>
<td>Introductory Physics I</td>
</tr>
<tr>
<td>PHYSICS 1450</td>
<td>5 cr</td>
<td>Introductory Physics II</td>
</tr>
</tbody>
</table>

**Electives (7 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 3040</td>
<td>4 cr</td>
<td>Comparative Anatomy of Vertebrates</td>
</tr>
<tr>
<td>BIOLOGY 3120</td>
<td>3 cr</td>
<td>Animal Tissue Culture</td>
</tr>
<tr>
<td>BIOLOGY 3140</td>
<td>4 cr</td>
<td>Vertebrate Embryology</td>
</tr>
<tr>
<td>BIOLOGY 3330</td>
<td>3 cr</td>
<td>Principles of Genetics</td>
</tr>
<tr>
<td>BIOLOGY 3530</td>
<td>3 cr</td>
<td>Advanced Biotechnology</td>
</tr>
<tr>
<td>BIOLOGY 3620</td>
<td>2 cr</td>
<td>Essentials of Immunology</td>
</tr>
<tr>
<td>BIOLOGY 3750</td>
<td>3 cr</td>
<td>Fresh Water Biology</td>
</tr>
<tr>
<td>BIOLOGY 4340</td>
<td>3 cr</td>
<td>Mammalian Histology</td>
</tr>
<tr>
<td>CHEMISTRY 3610</td>
<td>1 cr</td>
<td>Organic Chemistry Lab</td>
</tr>
<tr>
<td>CHEMISTRY 3630</td>
<td>3 cr</td>
<td>Organic Chemistry</td>
</tr>
</tbody>
</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
2. Exhibit working knowledge of ornamental plant species in Midwest landscapes, greenhouses, athletic fields, and public and interior spaces
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
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:
- 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

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
- Students will earn college credits

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

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
- Demonstrate an ability to communicate their peers in the ornamental horticulture and botanic fields using professional terminology

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

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

Outcomes:
- 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</th>
<th>Title</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 and Biotechnology</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>or 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>
</tbody>
</table>

**Electives (6 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</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>
</tr>
<tr>
<td>AGSCI 3270</td>
<td>Landscape Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3300</td>
<td>Fruit and Vegetable Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3320</td>
<td>Landscape Management**</td>
<td>3 cr</td>
</tr>
<tr>
<td>or AGSCI 4260</td>
<td>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>
</tr>
<tr>
<td>AGINDUS 4580</td>
<td>Agricultural Business Internship</td>
<td>3 cr</td>
</tr>
<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>
</tr>
<tr>
<td>BIOLOGY 3550</td>
<td>Morphology and Evolution of Vascular Plants</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3640</td>
<td>Plant Systematics</td>
<td>4 cr</td>
</tr>
<tr>
<td>RECLAM 3020</td>
<td>Reclamation Revegetation</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**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</th>
<th>Title</th>
<th>Credits</th>
</tr>
</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>or 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):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</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 3270</td>
<td>Landscape Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3300</td>
<td>Fruit and Vegetable Production</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS 2430</td>
<td>Agricultural Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 3410</td>
<td>Agricultural Consulting and Sales</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 3420</td>
<td>Agricultural Finance</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 4330</td>
<td>Agribusiness Marketing Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 1830</td>
<td>Microcomputer Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 2830</td>
<td>Advanced Microcomputer Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 2330</td>
<td>Leadership and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 2630</td>
<td>Introduction to Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3030</td>
<td>Human Resource Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3120</td>
<td>Retailing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3230</td>
<td>Small Business Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3340</td>
<td>Management, Gender and Race</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3630</td>
<td>Advertising</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 4200</td>
<td>Employee Recruitment and Selection</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 3010</td>
<td>Business Communications</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Professional Landscape Management Emphasis

**Requirements for Ornamental Horticulture Major (30 credits)**

**Required Courses (14 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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>
</tr>
<tr>
<td>AGSCI 3270</td>
<td>Landscape Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4250</td>
<td>Weed Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4260</td>
<td>Interior Plants</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Professional Landscape Management Electives (16 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS 1500</td>
<td>Introduction to Agribusiness</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 1750</td>
<td>Equipment, Structure and Power Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 3830</td>
<td>Engine and Tractor Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 3850</td>
<td>Electrical Applications in Agriculture</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 3950</td>
<td>Soil and Water Conservation Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 4580</td>
<td>Agribusiness Internship</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3200</td>
<td>Pest Identification and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3300</td>
<td>Fruit and Vegetable Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3350</td>
<td>Soil Fertility and Fertilizers</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3400</td>
<td>Special Topics in Ornamental Horticulture</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

BIOLOGY 3330 | Genetics                                          | 3 cr    |
BIOLOGY 3340  Entomology  4 cr
BIOLOGY 3450  Ecology and Evolution  3 cr
AGSCI 3370  Undergraduate Research in Ornamental Horticulture  1-3 cr
BIOLOGY 3550  Morphology of Vascular Plants  4 cr
BIOLOGY 3640  Plant Systematics  4 cr
BUSADM1 2330  Leadership and Management  3 cr
BUSADM1 2630  Introduction to Marketing  3 cr
BUSADM1 3230  Small Business Management  3 cr
BUSADM1 4200  Employee Recruitment and Selection  3 cr
COMMNCTN 3010  Business Communications  3 cr
COMPUTER 1830  Microcomputer Applications  3 cr
COMPUTER 2830  Advanced Microcomputer Applications  3 cr

International Emphasis

Requirements for Ornamental Horticulture Major (30 credits)

Required Courses (14-23 credits):
AGSCI  3420  Herbaceous Plants  2 cr
AGINDUS 2330  World Population, Food and Resources  3 cr
SPEECH 2300  Intercultural Communication  3 cr

One course from:
BUSADM1 3000  Global Business  3 cr
BUSADM1 3720  International Marketing  3 cr
BUSADM1 4940  International Management  3 cr

One International Experience Course (3-12 credits)*:
Study abroad experience
One-on-one exchange experience
Faculty-led international experience

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

Ornamental Horticulture Electives (4 credits):
AGSCI  3200  Pest Identification and Management  3 cr
AGSCI  3230  Turfgrass Management  3 cr
AGSCI  3300  Fruit and Vegetable Production  3 cr
AGSCI  3320  Landscape Management **  3 cr

or
AGSCI  4260  Interior Plants  3 cr
AGSCI  3370  Undergraduate Research in Ornamental Horticulture  1-3 cr

AGSCI  3460  Special Topics in Ornamental Horticulture  1-3 cr
AGSCI  4250  Weed Science  3 cr
AGINDUS  4580  Agricultural Business Internship  3 cr
BIOLOGY  2040  Cell Biology  4 cr
BIOLOGY  3240  Microbiology  4 cr
BIOLOGY  3340  Entomology  4 cr
BIOLOGY  4040  Molecular Biology  5 cr
BIOLOGY  3550  Morphology of Vascular Plants  4 cr
BIOLOGY  3640  Plant Systematics  4 cr
CHEMISTRY  3540  Organic Chemistry Lecture  4 cr
CHEMISTRY  3510  Organic Chemistry Lab  1 cr
CHEMISTRY  4630  General Biochemistry  3 cr
CHEMISTRY  4720  General Biochemistry Lab  1 cr
PHILSPHY  2540  Science, Technology and Ethics  3 cr

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

Ornamental Horticulture Breeding and Genetics Business Electives (3-9 credits):
AGINDUS  1500  Introduction to Agribusiness  3 cr
AGINDUS  2430  Agricultural Marketing  3 cr
AGINDUS  4330  Agribusiness Marketing Management  3 cr

BUSADMIN 2330  Leadership and Management  3 cr
BUSADMIN 2630  Introduction to Marketing  3 cr
BUSADMIN 3030  Human Resource Management  3 cr
BUSADMIN 3230  Small Business Management  3 cr
BUSADMIN 4200  Employee Recruitment and Selection  3 cr
COMMNCTN 3010  Business Communications  3 cr
COMPUTER 1830  Microcomputer Applications  3 cr
COMPUTER 2830  Advanced Microcomputer Applications  3 cr

International Electives (3-12 credits):
Students may select any international education course not already used to fulfill the general education international requirement and/ or a foreign language course beyond the second semester.
Reclamation, Environment and Conservation

Contact: Thomas Hunt
Program Office: 207 Pioneer Tower
Phone: 608.342.1898
E-mail: huntt@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 (unnecessary if 1450 is taken) 4 cr
- 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
- BIOLOGY 2420 FBI: Fundamentals of Biological Investigations 2 cr
- ENGLISH 3000 Technical Writing 3 cr
- 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
- INDUSTDY 1230 Technical Drafting 3 cr
- GEOLOGY 1140 Physical Geology 4 cr
- GEOLOGY 3130 Engineering Geology 3 cr
- CIVILENG 4300 Hydrology 3 cr
- GEOLOGY 3430 Hydrogeology 3 cr
- CIVILENG 4310 Groundwater Hydrology 3 cr
- RECLAM 3940 GIS/GPS and Mapping 3 cr
- CIVILENG 4630 Geographic Information Systems 3 cr
- GEOGRAPHY 2230 Geographic Information Systems 3 cr
- AGINDUS 3950 Soil and Water Conservation Engineering 3 cr
- AGSCI 4350 Soil and Water Conservation 3 cr
- CIVILENG 3020 Construction Engineering 3 cr
- CIVILENG 3340 Environmental Engineering 4 cr
- RECLAM 3880 Environmental Law 3 cr
- RECLAM 4920 Independent Study 1-3 cr
- RECLAM 4660 Cooperative Field Experience 3-6 cr
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 1 cr
  - Horticulture Seminar
- AGSCI 3340 Nutrient Management 3 cr
- AGSCI 3350 Soil Fertility and Fertilizers 3 cr
- AGSCI 4340 Plant Physiology 3 cr

---

Physical Emphasis

**Required Courses (10-11 credits):**

- PHYSICS 1140 Introduction to Physics I 4 cr
- PHYSICS 2530 General Physics I and Lab 4 cr
- GEOGRPHY 3230 GIS: Vector Fundamentals 4 cr
- GEOGRPHY 1140 Global Landforms 4 cr

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

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
Required Courses (12 credits):

AGSCI 4350  Soil and Water Conversion  3 cr
AGINDUS 4580  Agribusiness Internship  3 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 4370  Soil Physics  3 cr
AGSCI 4390  Soil Analysis  3 cr
AGINDUS 3950  Soil and Water Conservation Engineering  3 cr
RECLAM 3020  Reclamation Revegetation  3 cr

A 24-credit emphasis or minor must be selected.

**Plant Breeding and Genetics Emphasis**

Required Courses (13 credits):

AGSCI 4240  Plant Breeding  4 cr
BIOLOGY 3330  Genetics  3 cr
BIOLOGY 3530  Biotechnology  3 cr
CHEMISTRY 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
AGSCI 4390  Soil Analysis  3 cr

Plant Breeding and Genetics Emphasis Electives (11 credits):

BIOLOGY 2040  Cell Biology  4 cr
BIOLOGY 3240  Microbiology  4 cr
BIOLOGY 3340  Entomology  4 cr
BIOLOGY 3640  Plant Systematics  4 cr
BIOLOGY 4040  Molecular Biology  5 cr
BIOLOGY 4530  Plant Pathology  3 cr
CHEMISTRY 3540  General Organic Chemistry  4 cr
CHEMISTRY 3510  General Organic Chemistry Lab  1 cr
CHEMISTRY 4630  General Biochemistry  3 cr
CHEMISTRY 4610  General Biochemistry Lab  1 cr
RECLAM 3020  Reclamation Revegetation  3 cr
PHLSPHY 2540  Science, Technology and Ethics  3 cr

**Comprehensive Soil and Crop Science Emphasis**

Required Courses (12 credits):

AGSCI 3260  Seed and Grain Crops  3 cr

International Emphasis

Required Courses (44-53 credits):

AGINDUS 2330  World Population, Food and Resources  3 cr
AGINDUS 4580  Agribusiness Internship  3 cr
SPEECH 2300  Intercultural Communication  3 cr

One course from:

BUSADMIN 1300  Global Business  3 cr
BUSADMIN 3720  International Marketing  3 cr
BUSADMIN 4940  International Management  3 cr

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

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

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

Soil and Crop Science Electives (9 credits):

AGSCI 3230  Turfgrass Management  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
AGINDUS 3950  Soil and Water Conservation Engineering  3 cr
RECLAM 3020  Reclamation Revegetation  3 cr

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)

**Required Courses (8 credits):**
- AGSCI 3000 Animal Nutrition 4 cr
- AGSCI 4110 Farm Animal Reproduction 4 cr

**One course from (4 credits):**
- AGSCI 4030 Beef Management 4 cr
- AGSCI 4040 Swine Management 4 cr
- AGSCI 4070 Dairy Cattle Management 4 cr

**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

The remaining credits are selected from agriculture classes.

Animal Science Minor (24 credits)

**Required Courses (8 credits):**
- AGSCI 3000 Animal Nutrition 4 cr
- AGSCI 4110 Farm Animal Reproduction 4 cr

**One course from (4 credits):**
- AGSCI 4030 Beef Management 4 cr
- AGSCI 4040 Swine Management 4 cr
- AGSCI 4070 Dairy Cattle Management 4 cr

**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

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 and Management 3 cr
  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
  or
- BIOLOGY 3640 Plant Systematics 4 cr

**Electives (4-5 credits):**
- AGSCI 2280 Woody Landscape Plants* 3 cr
- AGSCI 3200 Pest Identification and Management 3 cr
- AGSCI 3220 Plant Development and Biotechnology 4 cr
- AGSCI 3230 Turfgrass Management 3 cr
- AGSCI 3240 Herbaceous Plants 2 cr
- AGSCI 3270 Landscape Design 3 cr

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 1 cr
- 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 Biotechnology 4 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 4340 Plant Physiology 3 cr
- AGSCI 4350 Soil and Water Conservation 3 cr
- AGSCI 4360 Crop Pesticides and Growth Regulators 3 cr
- AGSCI 4370 Soil Physics 3 cr
- AGSCI 4390 Soil Analysis 3 cr
- AGINDUS 3950 Soil and Water Conservation Engineering 3 cr

**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
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 biology department 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.

Overall Biology Program Student Learning Outcomes

1. Graduates will demonstrate a fundamental knowledge of biological concepts and the ability to apply these in their major program area.
2. Graduates will comprehend the scientific method and apply it in the understanding of the natural world.
3. Graduates will demonstrate effective written, oral and visual communication skills in a biological context.
4. Graduates will apply analytical and critical thinking skills to problems and issues in science and society and to the critical analysis and synthesis of biological literature.
5. Graduates will demonstrate skills and apply them in the proper use and care of equipment and specimens in the respective program areas.
6. Graduates will develop an appreciation and enthusiasm for science, especially biology, and develop a curiosity for the world around them.
7. Graduates seeking DPI certification in biology secondary education will demonstrate the skills, knowledge and competencies for teaching biology.
8. Graduates seeking advanced professional degrees in healthcare and other areas will demonstrate skills, knowledge and competencies for acceptance and participation in professional programs.
9. Graduates seeking advanced graduate study and research will demonstrate the skills, knowledge and competencies for acceptance and participation in graduate programs.
10. Graduates seeking biology-related careers not initially requiring advanced study will demonstrate skills, knowledge and competencies to be competitive and to participate in their respective occupational areas.

Specific Biology Student Learning Outcomes

Through the UW-Platteville Biology Department curriculum, students should:

Attitudes

1. appreciate science and especially biology. This appreciation should include how science and biology permeates our soci-
2. develop a curiosity for the world around them. This curiosity should include not only “how does that work?” or “what is that bug” or “how are genes expressed,” but also “how do we know that?” or “how can we figure this out?”

3. develop respect for equipment and specimens or materials. Biologists depend on these things and the proper care and desire to care for them is critical.

4. develop an enthusiasm and motivation for biology and the sciences.

5. further develop integrity. This development would include integrity in scientific endeavors and communication such as the issues of plagiarism and “fudging data” in research.

Skills

1. be able to understand and apply the scientific method. Students need to understand what the process of science is and what it is not. In this light, students should respect its limitations.

2. develop and apply communication skills. These communication skills include being able to present in a logical, understandable fashion, ideas or information in written, oral and visual formats. These skills also include interpersonal skills. Our students should be able to present themselves in a positive and professional way when interacting with others.

3. develop and apply critical thinking skills. Students should then be able to apply these skills to problems and/or issues in science, nature and society. This would include critical analysis and synthesis associated with the examination of literature and other informational resources.

4. develop resourcefulness and inventiveness. Students should develop the means to be able to identify and utilize available, pertinent resources (including those within his/her own person) in solving problems, the scientific process and in dealing with societal issues.

5. develop creativity. This would include developing novel ideas and approaches to solving problems, dealing with issues and experimental approaches.

6. be able to integrate multiple disciplines in the practice of science. For example, biology depends on the fundamental understanding of many other disciplines including physics, chemistry, astronomy, geology and geography.

7. develop and apply skills for the proper use and care of equipment.

Knowledge

1. Hierarchy of Biological Structure – Students should be able to describe the hierarchy and illustrate how the hierarchical context relates to different organisms. Students should also be able to explain the relationships among the different levels of the hierarchy and how those interactions influence organisms. Lastly, students should be able to distinguish biological systems within the context of the hierarchy.

2. Evolution – Students should be able to summarize the concept of evolution and assess the role of evolution in biology. Students also should be able to integrate the concepts of natural selection and evolution. Lastly, students should be able to relate the diversity of life to evolution and natural selection.

3. Diversity of Life – Students should be able to differentiate various organisms according to their evolutionary relationships. Students should also be able to explain how and why systematic approaches are used to organize and understand the diversity of organisms. Lastly, students should be able to describe how the concept of species fits within the context of biology.

4. Ecology – Students should be able to illustrate the interrelationship among organisms and the interrelationships between organisms and the environment. Students should also be able to describe energy and nutrient cycles and infer how those cycles influence organisms and the environment. Lastly, students should be able to relate ecological concepts to various disciplines within biology.

5. Genetics – Students should be able to describe the structure and expression of genes. Students should also be able to demonstrate the role of inheritance in determining differences among individual organisms, populations and species. Lastly, students should be able to summarize the relationships among DNA, RNA and protein synthesis.

6. Cells – Students should be able to compare and contrast the structures and functions of various cell types. Students should also be able to illustrate the processes of mitosis and meiosis, as well as describe the roles these processes have in a biological context. Lastly, students should be able to explain and relate the concepts of cellular respiration and photosynthesis.

7. Properties of Life – Students should be able to summarize the properties that are expressed by all living things. Consequently, students should also be able to discriminate living entities from non-living entities. Lastly, students should be able to describe the theory of chemical evolution (i.e., the biological explanation of how life began on earth).

8. Energy – Students should be able to explain what energy is and the different forms of energy. Students should also be able to apply the 1st and 2nd Laws of Thermodynamics to the form and function of biological systems. Lastly, students should be able to relate the concepts of entropy and homeostasis.

9. Process of Science – Students should be able to collect, analyze, interpret, summarize and present biological data within the context of the scientific method. Students should also be able to distinguish between experimental and observational approaches and assess how each might be used to answer scientific questions. Students should also be able to integrate previous findings from scientific literature into both approaches. Lastly, students should be able to formulate testable hypotheses and assess the appropriate methods to test those hypotheses.

10. History of Science – Students should be able to relate historical contributions to science with the current approaches and knowledge base within biology. Students should also be able to describe the contributions of various individuals to the science of biology.

11. Science and Society – Students should be able to illustrate how biology relates to society. As citizens, students should also be able to make informed decisions about biological issues and policies. Lastly, students should be able to differentiate the means by which biology is communicated to society and assess the advantages and disadvantages of each.

12. Bioethics – Students should be able to identify and assess different positions associated with ethical issues in biology. Students should also be able to describe the role of ethics in their present and future biological careers. Lastly, students should be able to explain the impact and importance of ethics on science and biology.
Biology Requirements (31 credits)

Students majoring in biology may elect one of two routes. Students who have specific biology interests, plan on a particular biology career or those who plan to enter a graduate or professional school should select the comprehensive biology 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.

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</th>
<th>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</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 4970</td>
<td>Senior Thesis</td>
<td>1 cr</td>
</tr>
<tr>
<td>or</td>
<td>BIOLOGY 4990 From Atoms to Ecosystems- The Study of Life</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

**Required Supporting Courses (11 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMSTRY 1140</td>
<td>General Chemistry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY 1240</td>
<td>General Chemistry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 1830</td>
<td>Elementary Statistics</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

A grade of “C” or higher is required in all biology courses counted toward a major in biology. Also, a grade of “C” or higher is required in ENGLISH 1130, ENGLISH 1230, CHEMSTRY 1140, CHEMSTRY 1240 and MATH 1830.

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</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>CHEMSTRY 3540/3510</td>
<td>Organic Chemistry I and Lab</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3630/3610</td>
<td>Organic Chemistry II and Lab</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4630/4610</td>
<td>General Biochemistry and Lab</td>
<td>5 cr</td>
</tr>
<tr>
<td>PHYSICS 1050</td>
<td>Principles of Physics</td>
<td>5 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>
<tr>
<td>PSYCHLGY 1130</td>
<td>General Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 1130</td>
<td>Principles of Sociology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY (courses in philosophy)</td>
<td></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</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 3460</td>
<td>Ecological Research and Methods</td>
<td>3 cr</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>or</td>
<td>BIOLOGY 2240 Anatomy and Physiology II</td>
<td>4 cr</td>
</tr>
<tr>
<td>or</td>
<td>BIOLOGY 2340 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</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4630/4610</td>
<td>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>BIOLOGY 3240</td>
<td>Microbiology</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>
<tr>
<td>BIOLOGY 4920</td>
<td>Independent Research in Biology</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 1370</td>
<td>Global Vegetation</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 3220</td>
<td>Plant Development and Biotechnology</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4240</td>
<td>Plant Breeding Principles</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4340</td>
<td>Plant Physiology</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Approved field station course(s)

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>

Supported field station course

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/</td>
<td>Organic Chemistry I and Lab</td>
<td>5 cr</td>
</tr>
<tr>
<td>or</td>
<td>CHEMSTRY 3510</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4630/</td>
<td>General Biochemistry and Lab</td>
<td>4 cr</td>
</tr>
<tr>
<td>or</td>
<td>CHEMSTRY 4610</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>or</td>
<td>GEOLOGY 1240</td>
<td>Historical Geology</td>
</tr>
</tbody>
</table>

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</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>or</td>
<td>BIOLOGY 2340</td>
<td>Essentials of Anatomy and Physiology</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</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>BIOLOGY 3240</td>
<td>Microbiology</td>
</tr>
</tbody>
</table>

Advanced Ecology Courses (6 credits):

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

**BIOLOGY 2450** Fungi, Algae and Bryophytes 4 cr
**BIOLOGY 2640** Invertebrate Zoology 4 cr
**BIOLOGY 3030** Ornithology 3 cr
**BIOLOGY 3040** Comparative Anatomy of Vertebrates 4 cr
**BIOLOGY 3230** Mammalogy 3 cr
**BIOLOGY 3240** Microbiology 4 cr
**BIOLOGY 3340** Entomology 4 cr
**BIOLOGY 3550** Morphology and Evolution of Vascular Plants 4 cr
**BIOLOGY 4150** Forensic Botany 4 cr
**BIOLOGY 4530** Plant Pathology 3 cr
**BIOLOGY 4410** Topics in Biology 1-3 cr
**BIOLOGY 4660** Cooperative Field Experience† 1-3 cr
**BIOLOGY 4920** Independent Research in Biology† 1-3 cr
**BIOLOGY 3###** Ichthyology* 3 cr
**BIOLOGY 3###** Herpetology* 3 cr

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:

**CHEMISTRY 3110** Environmental Chemistry Lab** 1-3 cr
**CHEMISTRY 3130** Environmental Chemistry** 3 cr
**CHEMISTRY 3510** Organic Chemistry Lab** 1 cr
**CHEMISTRY 3540** Organic Chemistry** 4 cr
**GEOGRPHY 2230** Geographic Information Systems: Thematic Mapping 3 cr
**GEOGRPHY 3230** Geographic Information Systems: Vector Fundamentals 3 cr
**RECLAM 3010** Current Topics in Reclamation* 2 cr
**CIVILENG 4630** Geographic Information Systems* 3 cr

* This option requires instructor consent for both courses

**PHYSICS 1050** Principles of Physics** 5 cr
**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

Required 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 Principles 3 cr
**AGSCI 4340** Plant Physiology 3 cr
**GENENG 4000** Nanotechnology 3 cr

Additional Required Supporting Courses (9 credits)

**CHEMISTRY 3540**/ Organic Chemistry I and Lab 5 cr
**CHEMISTRY 4630**/ 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 of Anatomy and Physiology (recommended)

or
**BIOLOGY 2140**/ Anatomy and Physiology I and II 8 cr
**BIOLOGY 2240**/ Anatomy and Physiology II 8 cr
**Anatomy and Physiology Courses (8 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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 3640</td>
<td>Plant Systematics</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3650</td>
<td>Plant Communities of Wisconsin</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 3210</td>
<td>Identification of Landscape Plants</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4340</td>
<td>Plant Physiology</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

An approved course at a field station

**Additional Requirements: One of the following (4 credits)**

- chemistry or broad field science.
- in physics, chemistry or environmental science or double major in to improve marketability. To this end, students may choose to minor the department encourages students to pursue a science-related program licensable major or minor offered at UW-Platteville, the biology department.

**Anatomy and Physiology Courses (8 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 2540</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 the Vertebrates</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3140</td>
<td>Vertebrate Embryology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3340</td>
<td>Entomology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 4130</td>
<td>Mammalian Endocrinology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 4340</td>
<td>Mammalian Histology</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

An approved course at a field station

**Zoology Electives (minimum of 9 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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 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 3340</td>
<td>Entomology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3620</td>
<td>Immunology</td>
<td>2 cr</td>
</tr>
<tr>
<td>BIOLOGY 3740</td>
<td>Mammalogy</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 4130</td>
<td>Mammalian Endocrinology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 4340</td>
<td>Mammalian Histology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 4410</td>
<td>Herpetology* (at PLFS)</td>
<td>2 cr</td>
</tr>
<tr>
<td>BIOLOGY 4430</td>
<td>Ichthyology*</td>
<td>cr vary</td>
</tr>
</tbody>
</table>

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

**Additional Required Supporting Courses (minimum of 12 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 1000</td>
<td>Introduction to Animal Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 2630</td>
<td>Companion Animal Care and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3000</td>
<td>Animal Nutrition</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 3020</td>
<td>A and P of Domestic Animals</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3070</td>
<td>Biotechnology in Animal Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3120</td>
<td>Topics in Animal Health</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4110</td>
<td>Reproductive Physiology of Domestic Animals</td>
<td>4 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 2230</td>
<td>Geographic Information Systems: Thematic Mapping</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3230</td>
<td>Geographic Information Systems: Vector Fundamentals</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3340</td>
<td>Biogeography</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

**Recommended Minors:**

Biotechnology, Chemistry and Environmental Science

**Zoology Emphasis (33 credits)**

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

**Anatomy and Physiology Courses (8 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 2340</td>
<td>Essentials of Anatomy and Physiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3040</td>
<td>Comparative Anatomy of the Vertebrates</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>
</tbody>
</table>

**Biology Minor (24 credits)**

**Required Courses (13 credits):**

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

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):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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 2340</td>
<td>Essentials of Anatomy and Physiology (recommended)</td>
<td>4 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>

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):

<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 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 the Vertebrates</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3320</td>
<td>Mammalogy</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3340</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 3460</td>
<td>Ecological Methods and Research</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3530</td>
<td>Biotechnology</td>
<td>3 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 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 4040</td>
<td>Molecular Biology</td>
<td>5 cr</td>
</tr>
<tr>
<td>BIOLOGY 4710</td>
<td>Selected Regional Habitats</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>BIOLOGY 4990</td>
<td>From Atoms to Ecosystems – The Study of Life</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

Physiology Corequisite (3-4 credits*):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 3030</td>
<td>Genetics of Livestock Improvement</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3530</td>
<td>Biotechnology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 4520</td>
<td>Biotechnology Seminar</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

Pre-Professional Programs

The following pre-professional programs are administered and advised through the UW-Platteville Biology Department:

Pre-Chiropractic
Wayne Weber
335 Gardner
608.342.1611

Pre-Occupational Therapy
Marilyn Tufte
253 Gardner
608.342.1664

Pre-Cytotechnology
Esther Ofulue
240 Gardner
608.342.1331

Pre-Optometry
Wayne Weber
335 Gardner
608.342.1611

Pre-Dentistry
Wayne Weber
335 Gardner
608.342.1611

Pre-Osteopathy
Amanda Trewin
241 Gardner
608.342.1527

Pre-Medical Technology
Esther Ofulue
240 Gardner
608.342.1331

Pre-Physical Therapy
Marilyn Tufte
253 Gardner
608.342.1664

Pre-Medicine
Wayne Weber
335 Gardner
608.342.1611

Pre-Physician Assistant
Wayne Weber
335 Gardner
608.342.1611

Pre-Nursing
Amanda Trewin
241 Gardner
608.342.1527

Pre-Podiatry
Amanda Trewin
241 Gardner
608.342.1527

The descriptions of these programs are listed under the special academic programs section. Program fact sheets are available in the UW-Platteville Biology Department office or from the department chair.

Biology Teaching Minor (24 credits)

Required Courses (20 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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 2340</td>
<td>Essentials of Anatomy and Physiology (recommended)</td>
<td>4 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>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 3220</td>
<td>Plant Development and Biotechnology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3120</td>
<td>Animal Tissue Culture</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

Electives to Complete Minor (7-10 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 3070</td>
<td>Biotechnology in Animal Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4110</td>
<td>Farm Animal Reproduction</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 4190</td>
<td>Seminar in Animal Science and Biotechnology</td>
<td>2 cr</td>
</tr>
<tr>
<td>AGSCI 4240</td>
<td>Plant Breeding Principles</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3240</td>
<td>Microbiology</td>
<td>4 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>CHEMSTRY 4610</td>
<td>Biochemistry Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4630</td>
<td>Biotechnology</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4830</td>
<td>Topics in Biochemistry</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Up to 3 credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 3370</td>
<td>Special Problems in Plant Biotechnology</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>BIOLOGY 4410</td>
<td>Topics in Biology</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

NOTE: Elective courses have individual pre-requisites that may not be listed above.
About the Department and Major

The UW-Platteville Department of Business and Accounting educates undergraduates for productive careers in a diverse, global business environment. Students pursuing a Bachelor of Science in business administration or in accounting, the two majors that the department offers, may begin learning about business-related subjects in their first year of college. Students are urged to participate in the department’s active student organizations. For students interested in accounting, there is Beta Alpha. For those interested in business, there is the Pioneer Investment Club, and student chapters of the Society for the Advancement of Management, the Society for Human Resource Management and UW-Platteville’s Collegiate Entrepreneur Organization. Go to www.uwplatt.edu/busacctng/org for more information on these organizations.

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.

Internships that have the prior approval of either the department internship coordinator or chairperson are required for business administration majors and accounting majors.

Because they will interact with people worldwide during their careers, business 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 including exchange programs and an acclaimed study abroad program. For those who are uncomfortable with going overseas but wish to have an experience away from UW-Platteville, we have a domestic exchange. In this program the student can spend a semester studying at over 500 schools in the United States and Canada.
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

Desired Student Outcomes – Business Administration
Students who earn a bachelor’s in business administration from UW-Platteville should:

1. have a basic knowledge of accounting, economics, marketing, management, computer applications, finance, human resource management and legal, social and international issues affecting business
2. communicate effectively verbally and in writing
3. develop effective interpersonal skills that will enable them to work with other individuals and within teams as either leaders or participants
4. know how to gather, use and critically evaluate electronic and other information
5. enhance their understanding of and sensitivity to diversity in the workplace
6. develop a knowledge and appreciation of ethical principles as applied to business
7. use critical thinking skills to solve real or hypothetical business problems
8. have had experiences that cultivate or enhance an entrepreneurial spirit

Desired Student Outcomes – Accounting
Students who earn a bachelor’s in accounting from UW-Platteville should:

1. possess the technical knowledge in financial accounting, management accounting, tax and auditing that is necessary to be successful in their careers
2. possess the broad understanding of the related subject matter (economics, marketing, management, computer applications, finance, human resource management, business law, business ethics) needed to be successful in the business world
3. possess effective interpersonal skills and the ability to communicate effectively verbally and in writing
4. possess enough familiarity with computer applications to be able to learn quickly the specific accounting applications which they may encounter in their careers
5. be able to obtain and retain accounting positions upon graduation and be successful in those positions

Distance Education Degree Program in Business Administration

Toll-free phone in U.S.: 1.800.362.5460
Website: www.uwp.edu/disted/business-administration.html

The department offers a Bachelor of Science degree in business administration at a distance. The program allows students to balance work and personal commitments with their educational goals. The degree is delivered at a distance, yet is the same degree that students earn on campus. Students may choose to take online or print courses, and no campus attendance is required. Courses are taught by experienced faculty who guide students’ work.

Online courses are offered in the fall, spring and summer semesters (for rotation schedules, please visit the website) and they emphasize student interaction. Print courses feature self-paced study, and students may register for print courses any working day of the year.

General Requirements
Total for graduation ...........................................120 credits
General education ........................................... 43-56 credits
Major studies ................................................. 60-63 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 have changed the education standards that individuals who wish to take the CPA examination must meet. Typically, applicants must have completed 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, computer science or management before graduation
- Completing a Master of Science degree in project management from UW-Platteville online 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 (51 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCTING</td>
<td>Financial Accounting</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING</td>
<td>Management Accounting</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING</td>
<td>Intermediate Accounting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING</td>
<td>Internship</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>BUSADMIN 4990 Internship</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>BUSADMIN 1300 Global Business</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

BUSADMIN 2330 Leadership and Management 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 3140 Managerial Law 3 cr
BUSADMIN 3620 Financial Management 3 cr
BUSADMIN 4840 Business Policy and Strategy 3 cr
COMMNCTN 3010 Business Communication 3 cr
COMPUTER 1830 Microcomputer Applications 3 cr
ECONOMIC 2130 Principles of Macroeconomics (may be counted as a social science requirement) 3 cr
ECONOMIC 2230 Principles of Microeconomics (may be counted as a social science requirement) 3 cr
ECONOMIC 2410 Interpretation of Business and Economic Data 3 cr

Required Accounting Courses (27 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCTING</td>
<td>Intermediate Accounting II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING</td>
<td>Federal Income Tax</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING</td>
<td>Advanced Accounting</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING</td>
<td>Cost Accounting</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING</td>
<td>Advanced Taxation</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING</td>
<td>Advanced Cost Accounting</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING</td>
<td>Auditing</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Two courses from:

ACCTING 3030 Accounting Information Systems 3 cr
ACCTING 3530 Budgets and Budgetary Control 3 cr
ACCTING 4240 Auditing II 3 cr
ACCTING 4520 Accounting Theory 3 cr

Note: ACCTING 4990 satisfies both the internship requirement and one of the two optional courses.

Mathematics Requirement:

MATH 2630 Calculus with Applications 3 cr

Additional Requirements for the Accounting Degree:

a. At least 40 percent of a student's total credits at UW-Platteville must be in areas outside of accounting and business.

b. Students must have G.P.As of 2.50 or better in accounting and business courses to graduate in the major.

c. Satisfactory completion of an approved accounting or business internship is required.

d. At least 12 credits must be taken at UW-Platteville.

Business Administration Major

The major includes required courses in the core and completion of an emphasis area.

Required Core Courses (48 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADMIN 1300 Global Business</td>
<td>3 cr</td>
<td></td>
</tr>
</tbody>
</table>

BUSADMIN 2230 Leadership and Management 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 Financial Management 3 cr
BUSADMIN 4840 Business Policy/Strategy 3 cr
BUSADMIN 4990 Internship 3 cr
ACCTING 2010 Financial Accounting 3 cr
ACCTING 2020 Management Accounting 3 cr
ACCTING 3000 Accounting Issues for Managers 3 cr

or

ACCTING 3010 Intermediate Accounting 3 cr

or

ACCTING 3230 Cost Accounting 3 cr
COMMNCTN 3010 Business Communication 3 cr
COMPUTER 1830 Microcomputer Applications 3 cr
ECONOMIC 2130 Principles of Macroeconomics (meets social science credits in general education) 3 cr
ECONOMIC 2230 Principles of Microeconomics (meets social science credits in general education) 3 cr
ECONOMIC 2410 Interpretation of Business and Economic Data 3 cr

Finance Emphasis (15 credits)

Required Courses (9 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADMIN 3710 Bank Management</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>BUSADMIN 3930 Investments</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>BUSADMIN 4030 Financial Decision Making</td>
<td>3 cr</td>
<td></td>
</tr>
</tbody>
</table>

Electives (6 credits):

AGINDUS 3530 Agricultural Commodity Marketing 3 cr
BUSADMIN 3150 Principles of Real Estate       3 cr
BUSADMIN 3430 Risk Management                3 cr
BUSADMIN 3640 Financial Systems Analysis     3 cr
BUSADMIN 3650 International Finance          3 cr
BUSADMIN 4130 Security Analysis              3 cr

Food Marketing Emphasis (15 credits)

Required Courses (9 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADMIN 3120 Retailing</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>BUSADMIN 3740 Consumer Behavior</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>BUSADMIN 4990 Internship</td>
<td>3 cr</td>
<td></td>
</tr>
</tbody>
</table>

or

AGINDUS 4580 Agricultural Business Internship 3 cr
AGSCI 2030 Introduction to Food Science       3 cr

79
Electives (6 credits, one course from each list):

One course from:

- BUSADMIN 3630 Advertising 3 cr
- BUSADMIN 3820 Professional Selling 3 cr

One course from:

- BUSADMIN 3530 Organizational Behavior 3 cr
- BUSADMIN 3540 Quality Management 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 3330 Labor Law 3 cr
- BUSADMIN 3340 Management, Gender and Race (meets GE gender and race requirement) 3 cr
- 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
- PSYCHLGY 3010 Industrial Psychology 3 cr

Management Emphasis (15 credits)

- BUSADMIN 3230 Small Business Management 3 cr
- BUSADMIN 3530 Organizational Behavior 3 cr
- BUSADMIN 3540 Quality Management 3 cr
- BUSADMIN 3600 Regulatory Compliance Management 3 cr
- BUSADMIN 4100 Supply Chain Management 3 cr
- BUSADMIN 4110 Management Science 3 cr
- BUSADMIN 4120 Operations Management 3 cr
- BUSADMIN 4140 International Management 3 cr

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 a minimum of nine credits in one of the two options. Each area has a required course.

(A) Advertising and Promotion

- BUSADMIN 3110 Integrated Marketing 3 cr
- BUSADMIN 3120 Retailing 3 cr
- BUSADMIN 3240 E-Commerce 3 cr
- BUSADMIN 3630 Advertising (required) 3 cr
- BUSADMIN 3720 International Marketing 3 cr
- BUSADMIN 3740 Consumer Behavior 3 cr
- COMMNCTN 2360 Public Relations Principles 3 cr
- COMMNCTN 3920 Promotional Techniques 3 cr

(B) Sales Techniques

- BUSADMIN 3240 E-Commerce 3 cr
- BUSADMIN 3720 International Marketing 3 cr
- BUSADMIN 3740 Consumer Behavior 3 cr
- BUSADMIN 3820 Professional Selling (required) 3 cr
- BUSADMIN 3830 Sales Management 3 cr
- SPEECH 3250 Interpersonal Communication 3 cr
- SPEECH 3500 Persuasion and Argumentation 3 cr

Applied Management Emphasis

Required Courses:

- BUSADMIN 3530 Organizational Behavior 3 cr
- or
- BUSADMIN 3540 Quality Management 3 cr
- BUSADMIN 4100 Supply Chain Management 3 cr
- or
- BUSADMIN 4120 Operations Management 3 cr

To complete this concentration, a second major or a minor that can be neither the business minor nor the ones designed for education majors must be completed.
## Computer Science Emphasis (18 credits)

**Required Courses (6 credits):**
- COMPUTER 1430 Programming in C++ 3 cr
- COMPUTER 2230 Programming in Cobol 3 cr

**Electives (12 credits):**
- COMPUTER 2340 Programming in Visual Basic 3 cr
- COMPUTER 2430 Object-Oriented Programming and Data Structures I 3 cr
- COMPUTER 2830 Advanced Microcomputer Applications 3 cr
- COMPUTER 3130 Systems Analysis and Design 3 cr
- COMPUTER 3340 Windows Programming 3 cr
- COMPUTER 3530 Systems Development and Implementation 3 cr
- COMPUTER 3630 Database Design and Implementation 3 cr
- COMPUTER 3930 CICS Application Programming 3 cr
- COMPUTER 4230 Applications in Information Systems 3 cr

## International Business Emphasis

**Required Courses (21 credits):**
- BUSADMIN 3720 International Marketing 3 cr
- BUSADMIN 4140 International Management 3 cr

**Either:**
- SPEECH 2300 Intercultural Communication 3 cr
- or
- POLISCI 1330 International Relations 3 cr
- or
- ENGLISH 3260 Language and Culture 3 cr

12-credit education abroad experience which includes six credits of preapproved business courses (consult with international coordinator)

## General Business Emphasis (15 credits)

Select 15 credits from any 3000-or 4000-level business administration courses, not in the core, in consultation with an advisor. Courses selected must have a BUSADMIN prefix.

## Integrated Supply Chain Management Emphasis (15 credits)

**Required Courses:**
- INDUSTDY 3950 Industrial Design for Production 3 cr
- INDUSTDY 4950 Production Planning and Control 3 cr
- BUSADMIN 4100 Supply Chain Management 3 cr

**Electives (6 credits):**
- BUSADMIN 3540 Quality Management 3 cr
- or
- INDUSTDY 4940 Quality Assurance 3 cr
- BUSADMIN 4140 International Management 3 cr
- SPEECH 2300 Intercultural Communication 3 cr
- INDUSTDY 4900 Work Measurement and Human Factors 3 cr

## 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 2.25 in all courses required for the business administration major.
3. Students majoring in business administration must complete BUSADMIN 4990 for three credits. If a student taking an internship from another department wishes it to fulfill the three-credit internship requirement of business or accounting, it must be pre-approved by a business and accounting internship coordinator and signed off by the business and accounting department chairperson.
4. At least 18 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

### 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 **** Business administration electives which must have the BUSADMIN prefix 12 cr (BUSADMIN 4990 Internship cannot be used.)

### 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
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.
Department of Communication Technologies
www.uwplatt.edu/commtech

Department Chair: Mary Rose Williams
Office: 609 Pioneer Tower
Phone: 608.342.1373
E-mail: willmary@uwplatt.edu

Professors:
B.J. Reed
Rob Snyder

Associate Professor:
Mary Rose Williams

Assistant Professors:
Hao Chen
Steve Yunck

Senior Lecturer:
Dave Meinhardt

Academic Department Associate:
Becky Troy

Majors
Communication Technologies
  Imaging Media Emphasis
  Integrated Media Emphasis
  Journalism Emphasis
  Public Relations Emphasis
  Video and Audio Production Emphasis

Minors
Imaging Media
Journalism
Public Relations
Video and Audio Production

About the Department and Major
The UW-Platteville Department of Communication Technologies 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.

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

Communication Technologies
Comprehensive major ....................................60 credits
or
Major with required minor ............................36 and 24 credits

Bachelor of Arts Degree
Total for graduation ........................................120 credits
General education ........................................ 43-57 credits

(Including nine credits upper division courses in humanities, fine arts or social sciences)

Communication Technologies
Comprehensive major ....................................60 credits
or
Major with required minor ............................36 and 24 credits

Program Purpose
The UW-Platteville Communication Technologies 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 (imaging media, 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 communication technologies, 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 communication
4. Demonstrate knowledge of legal concepts, terminology and issues in communication 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):**
- COMMNCTN 1630 Introduction to Mass Media  3 cr
- COMMNCTN 3010 Business Communication  3 cr
- COMMNCTN 3150 Communication Research  3 cr
- COMMNCTN 3930 Communication Law  3 cr
- COMMNCTN 4990 Internship  3 cr

**Imaging Media Emphasis**

**Required Courses (21 credits):**
- COMMNCTN XXXX Any four software courses  4 cr
- COMMNCTN 1230 Survey of Imaging  3 cr
- COMMNCTN 1930 Basic Photography  3 cr
- COMMNCTN 3070 History of Imaging  3 cr
- COMMNCTN 4050 Professional Practice  2 cr

**One set of courses from:**
- COMMNCTN 3500 Photography II*  3 cr
- COMMNCTN 4500 Photography III*  3 cr
- COMMNCTN 2090 Principles of Interactivity*  3 cr
- COMMNCTN 3030 Multimedia Projects*  3 cr

* If not taken for emphasis requirement, this course may be taken as an elective.

**Electives (Select at least 24 credits for the comprehensive major or select any university minor outside the emphasis area):**
- COMMNCTN XXXX (additional) software courses  1-3 cr
- COMMNCTN 1250 Audio and Video Systems  3 cr
- COMMNCTN 2070 Introduction to Field Production  3 cr
- COMMNCTN 2110 Applied Communication**  1 cr
- COMMNCTN 3100 Topics in Communication  1-3 cr
- COMMNCTN 3120 Applied Communication**  2 cr
- COMMNCTN 3330 Digital Imaging  3 cr
- COMMNCTN 3580 Documentary  3 cr
- COMMNCTN 3770 Theories of Media and Culture  3 cr
- COMMNCTN 4030 Applied Communication**  3 cr
- COMMNCTN 4040 Communication Practicum  1-3 cr
- COMMNCTN 4130 Communication Technologies Management  3 cr
- COMMNCTN 4710 Independent Study  1-3 cr
- ART 1010 Drawing I: Basic Drawing  2 cr
- ART 1420 Basic Design I: 2-D  2 cr
- ART 2140 Art History I  3 cr
- ART 2710 Graphic Design I  3 cr
- ART 2740 Graphic Design II  3 cr
- ART 3220 Printmaking  3 cr
- ENGLISH 2250 Introduction to Film  3 cr
- COMPUTER 1130 Introduction to Programming  3 cr
- COMPUTER 2430 Object-Oriented Programming I  3 cr
- THEATRE 1230 Stagecraft  3 cr

* If not taken for emphasis requirement, this course may be taken as an elective.

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

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 communication technologies 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 (21 credits):**
- COMMNCTN 1160 Software: InDesign Basic  1 cr
- COMMNCTN 1030 Software: Photoshop Basic  1 cr
- COMMNCTN 1930 Basic Photography  3 cr
- COMMNCTN 2030 Basic Newswriting and Reporting  3 cr
- COMMNCTN 2110 Applied Communication (Publications)**  1 cr
- COMMNCTN 3730 Project Writing and Reporting  3 cr
- COMMNCTN 3920 Promotional Techniques*  3 cr
- COMMNCTN 3830 Editing for Print  3 cr
- COMMNCTN 4140 U.S. Investigative Journalism  3 cr
- POLISCI 3000+ Any upper division POLISCI course  3 cr

* If not taken for emphasis requirement, this course may be taken as an elective.

**Electives (select at least 24 credits for the comprehensive major or select any university minor outside the emphasis area):**
- COMMNCTN XXXX Any additional software courses  2 cr
- COMMNCTN 2050 Broadcast Media Writing  3 cr
- COMMNCTN 2090 Principles of Interactivity  3 cr
- COMMNCTN 3100 Topics in Communication  1-3 cr
- COMMNCTN 3120 Applied Communication (Publications)**  2 cr
- COMMNCTN 3560 Broadcast News  3 cr
- COMMNCTN 3580 Documentary  3 cr
- COMMNCTN 3770 Theories of Media and Culture  3 cr
- COMMNCTN 4030 Applied Communication (Publications)**  3 cr
- ENGLISH 3360 Magazine Writing and Editing  3 cr
- ENGLISH 3940 Grammar in Context  3 cr

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

**Required Courses (21 credits):**

- COMMNCTN XXXX Software courses (any three) 3 cr
- COMMNCTN 1730 Introduction to Communication Technologies* 3 cr
  or
- COMMNCTN 1930  Basic Photography* 3 cr
- COMMNCTN 2030  Basic Newswriting and Reporting* 3 cr
  or
- COMMNCTN 2050  Broadcast Media Writing* 3 cr
- COMMNCTN 2360  Public Relations Principles 3 cr
- COMMNCTN 3800  Meetings and Events* 3 cr
  or
- COMMNCTN 3860  Media Advertising and Sales* 3 cr
- COMMNCTN 3730  Project Writing and Reporting* 3 cr
  or
- COMMNCTN 3920  Promotional Techniques* 3 cr
- COMMNCTN 4270  Volunteers, Fundraising and Grants 3 cr

* 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):**

- COMMNCTN XXXX Any COMMNCTN course*** 1-24 cr
- BUSINESS 2630  Introduction to Marketing 3 cr
- BUSINESS 3630  Advertising 3 cr
- ENGLISH 3360  Magazine Writing and Editing 3 cr
- SOCIOLGY 3230  Human Relations 3 cr
- SPEECH 3500  Persuasion and Argumentation 3 cr
- SPEECH 4010  Public Address and Speech Writing 3 cr

*** COMMNCTN courses not counted in requirements for core or this emphasis may be chosen as electives.

Video and Audio Production Emphasis

**Required Courses (21 credits):**

- COMMNCTN 1250  Audio and Video Systems 3 cr
- COMMNCTN 2070  Introduction to Video Field Production 3 cr
- COMMNCTN 2110  Applied Communication** 1 cr
- COMMNCTN 2530  Audio Production 3 cr
- COMMNCTN 3120  Applied Communication** 2 cr
- COMMNCTN 3240  Studio Production* 3 cr
  or
- COMMNCTN 3290  Radio Station Procedures* 3 cr

**One set of courses from:**

- COMMNCTN 2030  Basic Newswriting and Reporting* 3 cr
- COMMNCTN 3560  Broadcast News* 3 cr
  or
- COMMNCTN 2050  Broadcast Media Writing* 3 cr
- COMMNCTN 3840  Post-Production* 3 cr

* If not taken for emphasis requirement, this course may be taken as an elective.

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

Electives (at least 24 credits for the comprehensive major or select any university minor outside the emphasis area):

- COMMNCTN 1030  Software: Photoshop Basic 1 cr
- COMMNCTN 1100  Software: Flash Basic 1 cr
- COMMNCTN 1130  Software: Dreamweaver Basic 1 cr
- COMMNCTN 1230  Survey of Imaging 3 cr
- COMMNCTN 1730  Introduction to Communication Technologies 3 cr
- COMMNCTN 2090  Principles of Interactivity 3 cr
- COMMNCTN 2360  Public Relations Principles 3 cr
- COMMNCTN 3030  Multimedia Projects 3 cr
- COMMNCTN 3100  Topics in Communication 1-3 cr
- COMMNCTN 3580  Documentary 3 cr
- COMMNCTN 3660  Broadcast Performance 3 cr
- COMMNCTN 3770  Theories of Media and Culture 3 cr
- COMMNCTN 3860  Media Advertising and Sales 3 cr
- COMMNCTN 4030  Applied Communication** 3 cr
- COMMNCTN 4040  Communication Practicum 1-3 cr
- COMMNCTN 4140  U.S. Investigative Journalism 3 cr
- COMMNCTN 4710  Independent Study 1-3 cr
- BUSADMIN 2630  Introduction to Marketing 3 cr
- BUSADMIN 3630  Advertising 3 cr

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

Minors

Imaging Media Minor (24 credits)

- COMMNCTN XXXX  Software: Any six courses 6 cr
- COMMNCTN 1230  Survey of Imaging 3 cr
- COMMNCTN 1630  Introduction to Mass Media* 3 cr
- COMMNCTN 1930  Basic Photography 3 cr
- COMMNCTN 3070  History of Imaging 3 cr

Concentration (Select one of the following sets):

New Media Concentration

- COMMNCTN 2090  Principles of Interactivity 3 cr
- COMMNCTN 3030  Multimedia Projects 3 cr

Photography Concentration

- COMMNCTN 3500  Photography II 3 cr
- COMMNCTN 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 (15 credits):

- COMMNCTN 1160 Software: InDesign Basic 1 cr
- COMMNCTN 1030 Software: Photoshop Basic 1 cr
- COMMNCTN 1930 Basic Photography 3 cr
- COMMNCTN 2030 Basic Newswriting and Reporting 3 cr
- COMMNCTN 2110 Applied Communication (Publications) 1 cr
- COMMNCTN 3730 Project Writing and Reporting 3 cr
- COMMNCTN 3830 Editing for Print 3 cr

Electives (Select at least 9 credits):

- COMMNCTN 1230 Survey of Imaging 3 cr
- COMMNCTN 2050 Broadcast Media Writing 3 cr
- COMMNCTN 3150 Communication Research 3 cr
- COMMNCTN 3560 Broadcast News 3 cr
- COMMNCTN 3580 Documentary 3 cr
- COMMNCTN 3770 Theories of Media and Culture 3 cr
- COMMNCTN 3920 Promotional Techniques 3 cr
- COMMNCTN 3930 Communication Law* 3 cr
- COMMNCTN 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

* Communication technologies 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)

- COMMNCTN 1630 Introduction to Mass Media* 3 cr
- COMMNCTN 1730 Introduction to Communication Technologies 3 cr
- COMMNCTN 1930 Basic Photography 3 cr
- COMMNCTN 2030 Basic Newswriting and Reporting 3 cr
- COMMNCTN 2050 Broadcast Media Writing 3 cr
- COMMNCTN 2360 Public Relations Principles 3 cr
- COMMNCTN 3010 Business Communication* 3 cr
- COMMNCTN 3730 Project Writing and Reporting 3 cr
- COMMNCTN 3920 Promotional Techniques 3 cr

Two courses from:

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

* Communication technologies majors may not double count core requirements with minor requirements or electives; select any other communication technologies courses as substitutes.

Video and Audio Production Minor (24 credits)

Required Courses (15 credits):

- COMMNCTN 1250 Audio and Video Systems 3 cr
- COMMNCTN 1630 Introduction to Mass Media* 3 cr
- COMMNCTN 1730 Introduction to Communication Technologies 3 cr
- COMMNCTN 2070 Introduction to Video Field Production 3 cr
- COMMNCTN 2530 Audio Production 3 cr

Electives (9 credits):

- COMMNCTN 1030 Software: Photoshop Basic 1 cr
- COMMNCTN 1100 Software: Flash Basic 1 cr
- COMMNCTN 1130 Software: Dreamweaver Basic 1 cr
- COMMNCTN 2050 Broadcast Media Writing 3 cr
- COMMNCTN 2090 Principles of Interactivity 3 cr
- COMMNCTN 3030 Multimedia Projects 3 cr
- COMMNCTN 3240 Studio Production 3 cr
- COMMNCTN 3290 Radio Station Procedures 3 cr
- COMMNCTN 3560 Broadcast News 3 cr
- COMMNCTN 3580 Documentary 3 cr
- COMMNCTN 3660 Broadcast Performance 3 cr
- COMMNCTN 3840 Post Production* 3 cr
- COMMNCTN 3860 Media Advertising and Sales 3 cr
- COMMNCTN 3930 Communication Law* 3 cr
- COMMNCTN 4130 Communication Technologies Management 3 cr

* Communication technologies majors may not double count core requirements with minor requirements or electives; select any other minor elective as a substitute.
can expect 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.

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 occupational safety management prepares graduates to enter manufacturing and construction industries, business, consulting agencies, insurance companies and government agencies in management 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 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). 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.
3. 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 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.

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 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, non-verbal 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 the intellectual, social and personal development.

Standard # 9: The teacher fosters relationships with school colleagues, parents and agencies in the larger community to support students’ learning and well-being.

General Requirements
Bachelor of Science Degree
Total for graduation 120 credits
General education 44-58 credits
Major studies 48-54 credits

Technology Education Major
Coursework in the major includes general university requirements, professional education requirements and technology education requirements. An option is available for students interested in qualifying for dual certification in both agricultural education and technology education; please see your advisor for details.

Core Courses
Professional education requirements (42-52 credits) – G.P.A. 2.75 or better

Core Courses plus select Option A, Option B or Option C:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING 1230</td>
<td>Introduction to Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 2130</td>
<td>Human Growth and Development</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 3320</td>
<td>Psychology of Learning Encompassing</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Option A (8 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING 4020</td>
<td>Educational Media Technology</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 4210</td>
<td>Pre-Student Teaching</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 3110</td>
<td>Key Concepts of Middle Level Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 3120</td>
<td>Characteristics of Transescents</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

Option B (12 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING 4020</td>
<td>Educational Media Technology</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 4210</td>
<td>Pre-Student Teaching</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 3110</td>
<td>Key Concepts of Middle Level Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 3120</td>
<td>Characteristics of 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>
</tr>
</tbody>
</table>

Option C (18 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</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):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMNCTN 1230</td>
<td>Survey of Imaging</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>COMMNCTN 1250</td>
<td>Audio and Video Systems</td>
</tr>
<tr>
<td>or</td>
<td>COMMNCTN 1930</td>
<td>Basic Photography</td>
</tr>
<tr>
<td>INDUSTDY 1030</td>
<td>Introduction to Manufacturing</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDUSTDY 1130</td>
<td>Wood Technology</td>
<td>3 cr</td>
</tr>
<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>or</td>
<td>INDUSTDY 1260</td>
<td>Building Construction Drafting</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>
<tr>
<td>INDUSTDY 2430</td>
<td>Building Construction Materials</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

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
  
  (Note: students choosing the building construction management emphasis may select GEOGRAPHY 1040 Survey of Physical Geography or GEOLOGY 1140 Physical Geology in lieu of either physics or chemistry)

**Mathematics Requirement (must choose one of the following options)**

**Option 1** – (math proficiency level of 40 required) 2640 Calculus and Analytic Geometry and 1830 Elementary Statistics

**Option 2** – (math proficiency level of 30 required) 2530 Trigonometry and Analytic Geometry and 1830 Elementary Statistics

**Option 3** – (math proficiency level of 20 required) 2450 Precalculus and 1830 Elementary Statistics

**Option 4** – (math proficiency level of 15 required) 1530 College Algebra and 1830 Elementary Statistics

**Option 5** – (math proficiency level of 10 required) 15 Intermediate Algebra, 1530 College Algebra and 1830 Elementary Statistics

**Building Construction Management Emphasis (51 credits)**

[www.uwplatt.edu/ind_studies/bcm.html](http://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 3 cr
- INDUSTDY 3210 Construction Laboratory 3 cr
- INDUSTDY 4530 Residential Planning and Design 3 cr
- INDUSTDY 4630 Building Systems Analysis 3 cr
- INDUSTDY 4960 Commercial Building Planning and Construction 3 cr

**Electives (8 credits):**
- COMMNCTN 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
- or
- BUSADMIN 3030 Human Resource Management 3 cr
- BUSADMIN 3130 Legal Environment of Business 3 cr
- BUSADMIN 3430 Risk Management 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**
- INDUSTDY 1130 Wood Technology 3 cr
- INDUSTDY 1260 Building Construction Drafting 3 cr
- INDUSTDY 2430 Building Construction Materials 3 cr
- INDUSTDY 3140 General Construction Estimating 4 cr
- INDUSTDY 3210 Construction Laboratory 3 cr
- INDUSTDY 3220 Construction Procedures 3 cr
- INDUSTDY 4630 Building Systems Analysis 3 cr
- INDUSTDY 4840 Construction Administration 3 cr
- INDUSTDY 4960 Commercial Building, Planning and Construction 3 cr
Safety concentration – 24 credits required

BUSADMIN 3430 Risk Management 3 cr
INDUSTDY 3180 Construction Safety Management 3 cr
INDUSTDY 3590 Industrial Hygiene Technology 3 cr
INDUSTDY 3610 Safety and Worker Compensation Laws 3 cr
INDUSTDY 4040 Environmental Safety Management 3 cr
INDUSTDY 4770 Loss Control Safety Management 3 cr
INDUSTDY 4780 Ergonomics in the Workplace 3 cr
INDUSTDY 4790 Safety Management Components 3 cr

Technical electives – 12 credits required
(Must take at least three credits of BUSADMIN)

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

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

Manufacturing Technology Management Emphasis (60 credits)

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):

INDUSTDY 1030 Introduction to Manufacturing 3 cr
BUSADMIN 2330 Leadership and Management 3 cr
INDUSTDY 4900 Work Measurement and Human Factors 3 cr
INDUSTDY 4940 Quality Assurance 3 cr
INDUSTDY 4950 Production Planning and Control 3 cr

Required Technical Core Courses (21 credits):

INDUSTDY 1200 AC/DC Fundamentals 3 cr
INDUSTDY 1230 Technical Drafting 3 cr
COMPUTER 1130 Introduction to Programming 3 cr
or
COMPUTER 1830 Microcomputer Applications 3 cr
INDUSTDY 1430 Introduction to Metals Processes 3 cr
INDUSTDY 1530 Power Systems Technology 3 cr
INDUSTDY 1830 Synthetic and Composite Materials 3 cr

Electives:

INDUSTDY 4990 Industrial Studies Internship 1-5 cr

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

Occupational Safety Management Emphasis (51 credits)

www.uwplatt.edu/ind_studies/safe.html

Required Professional Concentration Courses (15 credits):

INDUSTDY 1030 Introduction to Manufacturing 3 cr
COMPUTER 1830 Microcomputer Applications 3 cr
ENGLISH 3000 Technical Writing 3 cr
or
COMMCTN 3010 Business Communication 3 cr
BUSADMIN 3030 Human Resource Management 3 cr
or
BUSADMIN 3820 Professional Selling 3 cr
CRIMLJUS 2630 Private Security Operations 3 cr

Required Safety Concentration Courses (18 credits):

INDUSTDY 3590 Industrial Hygiene Technology 3 cr
INDUSTDY 3610 Safety Worker Compensation Laws 3 cr
INDUSTDY 4040 Environmental Safety Management 3 cr
INDUSTDY 4770 Loss Control Safety Management 3 cr
INDUSTDY 4780 Ergonomics in the Workplace 3 cr
INDUSTDY 4790 Safety Management Components 3 cr

Technology Lab Classes (3 credits):

INDUSTDY 1200 AC/DC Fundamentals 3 cr
INDUSTDY 1230 Technical Drafting 3 cr
INDUSTDY 1430 Introduction to Metals Processes 3 cr
INDUSTDY 1530 Power Systems Technology 3 cr
INDUSTDY 1830 Synthetic and Composite Materials 3 cr

Technical Electives (15 credits):

BUSADMIN 3430 Risk Management 3 cr
CRIMLJUS 2930 Interviewing 3 cr
INDUSTDY 3180 Construction Safety Management 3 cr
INDUSTDY 3810 Alcohol and Other Drugs as Related to Safety 3 cr
INDUSTDY 4020 Topics in Industrial Studies 1-3 cr
INDUSTDY 4480 Industrial Robotics 3 cr
INDUSTDY 4750 Disaster Preparedness 3 cr
INDUSTDY 4810 Fire Protection 3 cr
INDUSTDY 4950 Production Planning and Control 3 cr
INDUSTDY 4990 Industrial Studies Internship 1-5 cr

Select individual courses and/or a university minor in consultation with an advisor to complete the degree.
## 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 4630 Building Systems Analysis 3 cr
- INDUSTDY 4840 Construction Administration 3 cr
- INDUSTDY 4960 Commercial Building Planning and Construction Techniques 3 cr

**Electives (8 credits):**
- INDUSTDY 4020 Topics in Industrial Studies 1-3 cr
- INDUSTDY 4530 Residential Planning and Design 3 cr
- INDUSTDY 4630 Building Systems Analysis 3 cr
- INDUSTDY 4840 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

### 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 Metalcast 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 (6 credits):**
- INDUSTDY 1430  Introduction to Metals Processes  3 cr
- INDUSTDY 1830  Synthetic and Composite Materials  3 cr

**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 (9 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
The UW-Platteville College of Engineering, Mathematics and Science offers degree programs in chemistry, computer science, engineering physics, mathematics, civil, electrical, environmental, industrial, mechanical and software engineering. Curricular requirements provide a strong foundation in the student's major field of study, supplemented by a broad background in the social sciences and humanities. In this way, the college enables its graduates to be adaptable to change, to be productive citizens and to practice their professions with proficiency and integrity.

The college also provides general education courses in mathematics and some of the natural sciences.

Placement for graduates of the college has always been excellent. Most graduates find they are placed in challenging positions at competitive salaries.

The college strives to be a leader in innovative, high-quality undergraduate education.

Educational Goals and Objectives
The College of EMS’s educational vision, goals and objectives are presented in the college strategic plan. The strategic plan is available in the dean's office and is on the college website.

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.

Collaborative Engineering Programs
In collaboration with the UW Colleges, place-bound students can complete UW-Platteville engineering degrees at outlying locations. Programs are available at UW-Fox Valley and UW-Rock County campuses for students to complete electrical or mechanical engineering with on-site UW-Platteville faculty. Students at other UW Colleges campuses can also complete degrees in engineering majors by using technology to deliver UW-Platteville engineering courses.
Collaborative degree students typically complete general education and pre-engineering math and science course requirements by earning an Associate of Arts and Science degree through the UW Colleges. When eligible, students apply for admission to UW-Platteville to complete the major at either of the outlying locations or through learning technology. All program requirements must be met in accordance with UW-Platteville policy.

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.

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. The engineering co-op and internship program is administered by the associate dean of the college.

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.

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.

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.

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.

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.

Some programs limit the number of attempts a student has to obtain a passing grade. For example, all engineering and chemistry courses may be repeated only once. Students who fail to meet the grade requirement for a course after the second attempt are dismissed from the College of EMS.

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. 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. Students who have fulfilled their university suspension and who wish to reenter the College of EMS must appeal in writing to the EMS Admissions and Academic Standards Committee.

Students dismissed from the College of EMS must appeal in writing to the EMS Admissions and Academic Standards Committee for reinstatement to an EMS program. Further appeal may be made to the assistant/associate dean of the college. Students who wish to change their major to one of the following programs: computer science, mathematics, broad field science or out of the College of EMS do not have to appeal — but they must inform the EMS Admissions and Academic Standards Committee of their change of major.
Students may be subject to various penalties, including dismissal from the College of EMS, for academic misconduct. Instances of academic misconduct will be handled according to the provisions of Chapter 14 of the Wisconsin Administrative Code entitled Student Academic Disciplinary Procedures.

The Women in Engineering, Mathematics and Science Program

Senior Director: Tammy J. Salmon-Stephens  
E-mail: salmont@uwplatt.edu
www.uwplatt.edu/wep

The mission of the UW-Platteville Women in Engineering, Mathematics and Science Program is to inform students, parents and educators about the value of gender diversity as it relates to the Science, Technology, Engineering and Mathematics workplace. The program promotes a supportive community through activities such as advising, mentoring and networking. The Women in EMS Program supports this mission for both continuing and prospective students through the following:

- Women in Engineering career days
- The Women in Engineering Mentor Program and Center
- Memorial and merit-based scholarships
- STEM Scholars program (www.uwplatt.edu/stemscholars)
- Pre-college Research Program (www.uwplatt.edu/wep/undergraduate.html)
- Outreach visits to local schools
- A local chapter of the Society of Women Engineers
- One-on-one advising
- Women in Engineering, Mathematics and Science Advisory Board
- Sky’s the Limit weekend programs for students in seventh-12th grade
- The Women in EMS Student Ambassadors

The goals of the Women in EMS Program are as follows:
- Increase the number of women students in the College of EMS
- Continue to develop and implement retention strategies for women in EMS
- Develop and implement effective strategies for program assessment
- Continue to obtain program funding to support program initiatives
- Become nationally recognized as a leader in gender diversity programs in STEM

The Engineering, Mathematics and Science Advising Office

Senior Director: Tammy J. Salmon-Stephens  
E-mail: salmont@uwplatt.edu
www.uwplatt.edu/ems/advising

The Engineering, Mathematics and Science Advising Office provides a comprehensive set of services that assists students in maximizing their educational experience at UW-Platteville while working through a challenging curriculum. The advising office does this by providing faculty and students with the most recent changes in program requirements, assisting students with scheduling questions and encouraging students to utilize the numerous services on campus, which have been established to assist students through their academic career. In addition, the advising office is committed to providing assistance and support to those students in transition to various career choices.
About the Department and Majors
The UW-Platteville Department of Chemistry and Engineering Physics offers two distinct majors in chemistry and engineering physics in addition to minors in chemistry and physics. Each of these programs are described separately below.

Five chemistry programs are offered to meet the varied needs of our students. They include: the standard chemistry major, American Chemical Society-approved major, biochemistry emphasis, criminalistics emphasis ACS-track and DNA-track, and chemistry minor.

Chemistry

Contact: Timothy Zauche
Office: 201 Ottensman Hall
Phone: 608.342.1651

Professors:
Charles R. Cornett
James P. Hamilton
Steven A. Steiner
Timothy Zauche

Associate Professors:
Qiong (June) Li
Chanaka Mendis

Assistant Professors:
Jeffrey Buboltz
Soma Chattopadhyay
Joseph Wu

Lecturer:
Jasmine Erbs

Chemistry Laboratory Manager:
Kari Frederick

Academic Department Associate:
Kelly F. Steiger

Majors
Chemistry - American Chemical Society approved
Biochemistry Emphasis – ACS approved
Criminalistics Emphasis - DNA
Trace Evidence – Chemistry ACS approved
Chemistry (general or 10-21 teaching)

Chemistry Minor
General Requirements
Bachelor of Science Degree
Total for graduation ........................................120 credits
General education .............................................31 credits

Admission Standards
For admission to the chemistry program, students must declare a chemistry major or submit a change of major form to the Registrar’s Office prior to graduation.

Academic Standards
Once admitted to the chemistry program, students must maintain a level of academic quality to continue being a chemistry major. If students do not maintain the following standards, they will be dismissed from the chemistry program.

1. Chemistry students must achieve a “C” or better in ENGLISH 1130 and in all mathematics, physics and chemistry courses required for their selected emphasis. The courses required for each of the different emphases are listed below.

2. Chemistry majors may only repeat the above courses and their prerequisites once. Failure to achieve a “C” or better the second time through will result in dismissal from the program. Students dismissed from the chemistry program must appeal to the EMS Admissions and Academic Standards Committee if they wish to be readmitted to the chemistry program.

3. Every student majoring in chemistry must meet the writing certification requirement as established by the department. Details may be obtained from the department chairperson.

4. All chemistry majors are required to have an industrial/research experience in their junior or senior year. This requirement can be satisfied either by CHEMISTRY 4000 Undergraduate Research or CHEMISTRY 4660 Cooperative Field Experience. Students in the criminalistics emphasis may satisfy this requirement through CHEMISTRY 4680 Internship.

Statement of Purpose
In order to realize the mission of the university and the vision of the college, the chemistry program has the mission of providing students with information, theories and applications relating to the properties and interactions of matter, methods used to obtain such insight, and abilities to critically analyze and synthesize such information. Foremost, the chemistry program has a commitment to the preparation of majors in the field of their choice with a strong background in the chemical sciences.

As such, the chemistry program will maintain an intellectual environment and educational experiences which will:

1. provide students majoring in chemistry with high quality preparation for successful professional practice in chemistry or admission to graduate or other professional schools
2. provide students majoring in other areas which specifically require chemistry as part of their curriculum with a broad-based knowledge of chemistry, which meets the needs of their major
3. provide students taking chemistry as part of their liberal studies with a broad-based knowledge of chemistry, as well as insight into the nature of the natural sciences

**Expected Student Outcomes**
1. A chemistry graduate will be scientifically literate and possess a broad-based knowledge of chemical principles and techniques.
2. A chemistry graduate will be able to solve problems through creative and analytical thinking.
3. A chemistry graduate will be an effective communicator.
4. A chemistry graduate will be intellectually curious and value lifelong learning.
5. A chemistry graduate will value ethical character.
6. A chemistry graduate will be able to work independently as well as cooperatively.
7. Non-majors will apply their knowledge of chemistry content with laboratory practices to their major.
8. Liberal arts students will discover what patterns, principles and dynamics find expression in empirical data science; assess the character, possibilities and limitations of the scientific method; and engage actively in analysis of directly encountered natural phenomena.

**Chemistry Major (38 credits)**

The chemistry major is designed to equip the graduates with the necessary skills, knowledge and attitudes to secure meaningful employment in industrial or governmental laboratories, enter graduate and professional schools or teach at the secondary school level.

<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</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY 1240</td>
<td>General Chemistry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY 2150</td>
<td>Quantitative Analysis</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY 2730</td>
<td>Inorganic Chemistry*</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3540</td>
<td>Organic Chemistry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3510</td>
<td>Organic Chemistry Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3630</td>
<td>Organic Chemistry II</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3610</td>
<td>Organic Chemistry II Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4130</td>
<td>Physical Chemistry I</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4110</td>
<td>Physical Chemistry II Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4240</td>
<td>Instrumental Analysis</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4630</td>
<td>Biochemistry</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4060</td>
<td>Seminar</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4000</td>
<td>4660 or CRIMLJUS 4880</td>
<td>1-8 cr</td>
</tr>
</tbody>
</table>

* not required for the criminalistics emphasis-DNA track

**Required Chemistry Courses**

<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>
<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>
</tbody>
</table>

Students in secondary education should add to the 38-credit chemistry requirement GEOGRPHY 3330 Environmental Conservation. Students who expect to enter a graduate program in chemistry are advised to elect additional advanced courses in chemistry or elect the ACS-approved majors.

**Chemistry Major, ACS Approved (46 credits)**

The ACS major is recognized by the American Chemical Society and designed to give the graduate a stronger focus on chemistry. ACS majors are required to take MATH 2840 Calculus and Analytic Geometry III. The curriculum includes all courses required for a chemistry major plus:

<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>
</tbody>
</table>

Study of a foreign language is recommended for students who plan to pursue graduate studies. In addition, substitution of PHYSICS 2240 and 2340 for the minimum physics courses is strongly encouraged for ACS-approved chemistry majors.

**Chemistry Major, Biochemistry Emphasis – ACS Approved (53-55 credits)**

The biochemistry emphasis is designed to provide the appropriate chemistry and biology background for the graduate who plans to enter fields such as health, agriculture or safety. The biochemistry emphasis includes all courses required for the chemistry major as well:

<table>
<thead>
<tr>
<th>Course Code</th>
<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 1650</td>
<td>Unity of Life</td>
<td>5 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 (63 credits) or DNA Track (66 credits)

This program gives a chemistry major sufficient background in criminal justice to qualify for criminalistic laboratory work. The curriculum includes all courses required for a chemistry major, plus:

- CRIMLJUS 3130 Criminal Investigation 3 cr
- CRIMLJUS 3140 Criminalistics 3 cr
- CRIMLJUS #### Criminal justice electives 3 cr
- CHEMSTRY 4680 Criminalistics Internship 8 cr

CRIMLJUS 3730 Women and the Law, CRIMLJUS 4030 Criminal Law and CRIMLJUS 4330 Criminal Procedure and Evidence are highly recommended electives. Criminalistics emphasis majors are required to take the following general education courses:

- CRIMLJUS 1130 Introduction to Criminal Justice 3 cr
- BIOLOGY 1650 Unity of Life 5 cr
- MATH 1830 Elementary Statistics 3 cr

Students electing the criminalistics emphasis ACS track are required to complete all requirements for the ACS-approved chemistry major. Students electing the criminalistics emphasis DNA track are required to complete the core chemistry major, criminalistics emphasis courses listed above and:

- 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

Chemistry Minor (23-24 credits)

The chemistry minor is designed to provide a broader background with a chemistry perspective for students in other majors including those preparing to teach secondary school.

- CHEMSTRY 1140 General Chemistry I 4 cr
  and
- 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 includes four credits worth of chemistry laboratory experience.

Engineering Physics

www.uwplatt.edu/chemep/phys

Contact: Harold T. (Hal) Evensen
Office: 228 Engineering Hall
Phone: 608.342.1651
E-mail: evensenh@uwplatt.edu

Professors:
- Harold T. (Hal) Evensen
- W. Doyle St. John
- Philip W. Young

Associate Professor:
- Wei Li

Assistant Professors:
- Andy Pawl
- Yan Wu

Physics Laboratory Manager:
- Duane Foust

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.

Educational 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

Curricular Goals
The engineering physics curriculum is 130 credits including 61 credits of engineering. The engineering physics program provides a balanced curriculum emphasizing physics and engineering principles with design, diverse hands-on experiences to prepare the engineering physics graduate for the demands of laboratory or manufacturing environments, and strong communication and team working skills. The engineering credits are divided nearly equally among electrical and mechanical engineering science, engineering physics and a professional engineering concentration. The electrical engineering and mechanical engineering science includes introductory courses that provide the necessary prerequisites for further study in these two areas. The engineering physics core covers nearly all the basic areas of physics with a special emphasis placed on practical problem solving, including design. The professional engineering concentration consists of electives. Here a student may tailor the program to suit individual interests by selecting from a long list of courses in electrical and mechanical engineering, as well as some courses in software and industrial engineering. While students are free to choose the electives, we encourage them to select one of the following preconfigured concentrations: controls, electronics/communications, mechanical design, electric power, energy conversion (or thermo-fluid systems), software/digital or biomedical engineering.

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.
5. Students may only repeat an engineering course once. Failure to achieve a required grade (e.g., a “C” or better in GENENGR 2130) on the second attempt will result in dismissal from engineering physics and the College of Engineering, Mathematics and Science. Students may appeal to the EMS Admissions and Academic Standard Committee for reinstatement and permission to attempt the course a third time to achieve the required grade.
6. Students who wish to take a course a third time to improve their G.P.A. (even though they haven’t been dismissed from the program) must request permission from the program coordinator for engineering physics.

General Requirements
Bachelor of Science Degree
Total for graduation .................................................. 130 credits
General education ..................................................... 31 credits

Admission Requirements
For admission to engineering physics, students must meet the following requirements:

1. Complete the general engineering core for engineering physics (ENGLISH 1130, CHEMSTRY 1450, GENENGR 1000, GENENGR 1030, GENENGR 2030, MATH 2640 and MATH 2740) with a minimum core grade point average. The required C.G.P.A. for engineering physics is 2.40 as of spring 2011. Students must also have a “C” or better in MATH 2640 and 2740.

Students who fail to meet the C.G.P.A. standard may appeal to the general engineering department. Appeals will be considered by the engineering physics faculty based on overall G.P.A. and performance in general physics.

Engineering Physics Major (99 credits)

Mathematics Courses (15 credits):

<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>
Concentrations have been developed and are as follows:

Students are encouraged to select courses which form a concentration. Such concentrations may include design and at least one must be engineering physics courses for the professional engineering electives.

### 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, EE4310, EE4440  
**Electrical Power:** EE3020, EE3410, EE4430, EE4450  
**Thermal Design:** ME3300, ME3640; four of ME4730, ME4550, ME4600, ME4520, ME4630  
**Digital:** EE3770, EE3780, EE3310, EE4720, EE4750  
**Materials:** ME3040, ME3330, ME4440, ME4430, EE3130  
**Biomedical (mechanics):** BIOLOGY 2340, IE3430, ME4500, ME3040, ME4440, ME4430

### Basic Sciences Courses (17 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMISTRY 1450</td>
<td>Chemistry for Engineers</td>
<td>5 cr</td>
</tr>
<tr>
<td>PHYSICS 2240</td>
<td>General Physics I</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSICS 2340</td>
<td>General Physics II</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSICS 3140</td>
<td>Modern Physics</td>
<td>4 cr</td>
</tr>
</tbody>
</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 2340</td>
<td>Mechanics of Materials</td>
<td>4 cr</td>
</tr>
</tbody>
</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>

### Mathematics 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>
</tr>
</tbody>
</table>

### Physics Minor (24 credits)

**Minor in Physics (Science 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>
</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>ENGRPHYS 4140</td>
<td>Applied Optics</td>
<td>4 cr</td>
</tr>
</tbody>
</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>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 6 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>
</tbody>
</table>

**Physics Minor (24 credits)

**Minor in Physics (Science 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>
</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>ENGRPHYS 4140</td>
<td>Applied Optics</td>
<td>4 cr</td>
</tr>
</tbody>
</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>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 6 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>ENGRPHYS 4140</td>
<td>Applied Optics</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

**Image:**

![Image](image_url)
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 (39-40 credits):

**Biology**
- BIOLOGY 1650 The Unity of Life 5 cr
- BIOLOGY 1750 The Diversity of Life 5 cr

**Chemistry**
- CHEMISTRY 1140 General Chemistry I 4 cr
- CHEMISTRY 1240 General Chemistry II 4 cr

**Earth and Space Science**
- PHSC 1340 Astronomy 4 cr
- PHSC 1310 Astronomy Lab I 1 cr
- GEOGRPHY 1240 Weather and Climate 4 cr

One course from:
- GEOLOGY 1140 Physical Geology 4 cr
  or
- GEOGRPHY 1140 Global Landforms 4 cr

**Physics**
- PHYSICS 1350 Introductory Physics I 5 cr
- PHYSICS 1450 Introductory Physics II 5 cr

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

Approved concentrations from two of the science areas or a minor in one area (14-24 credits):

**Biology**
- BIOLOGY 3450 Ecology and Evaluation 3 cr
- BIOLOGY 2340 Essentials of Anatomy and Physiology 4 cr
- Elective in biology 3 cr

**Chemistry**
- CHEMISTRY 2150 Quantitative Analysis 4 cr
- CHEMISTRY 3540 Organic Chemistry Lecture 4 cr
  and
- CHEMISTRY 3510 Organic Chemistry Lab 1 cr

**Earth and Space Science**
- GEOLOGY 1140 Physical Geology 4 cr
- GEOLOGY 1240 Historical Geology 4 cr
- GEOLOGY 3040 Mineralogy and Lithology 4 cr
  or
- GEOLOGY 3430 Hydrogeology 4 cr

**Physics**
- 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
- INDUSTDY 2260 Electronic Circuits 3 cr

**Mathematics Sequence (6-9 credits):**
- MATH 2530 Trigonometry and Analytical 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
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:

<table>
<thead>
<tr>
<th>Astronomy</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PHSC</td>
<td>1340</td>
<td>Introductory Astronomy</td>
</tr>
<tr>
<td>and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHSC</td>
<td>1310</td>
<td>Introductory Astronomy Lab</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Biology</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY</td>
<td>1150</td>
<td>General Biology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemistry</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMSTRY</td>
<td>1050</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>CHEMSTRY</td>
<td>1140</td>
<td>General Chemistry*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Geosciences</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGRPHY</td>
<td>1040</td>
<td>Planet Earth</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>1140</td>
<td>Global Landforms</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>1240</td>
<td>Physical Geography: Weather and Climate*</td>
</tr>
<tr>
<td>GEOLOGY</td>
<td>1140</td>
<td>Physical Geology</td>
</tr>
<tr>
<td>GEOLOGY</td>
<td>1240</td>
<td>Historical Geology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physics</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS</td>
<td>1150</td>
<td>Physical Science</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>1050</td>
<td>Principles of Physics</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>1350</td>
<td>Introductory Physics I*</td>
</tr>
</tbody>
</table>

*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.

<table>
<thead>
<tr>
<th>Biology</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY</td>
<td>1650</td>
<td>The Unity of Life</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>1750</td>
<td>The Diversity of Life</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemistry</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMSTRY</td>
<td>1140</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>CHEMSTRY</td>
<td>1240</td>
<td>General Chemistry</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Geosciences</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGRPHY</td>
<td>1240</td>
<td>Physical Geography</td>
</tr>
</tbody>
</table>

And one course from:

<table>
<thead>
<tr>
<th>Geosciences</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGRPHY</td>
<td>1040</td>
<td>Planet Earth</td>
</tr>
<tr>
<td>GEOGRPHY</td>
<td>1140</td>
<td>Global Landforms</td>
</tr>
<tr>
<td>GEOLOGY</td>
<td>1140</td>
<td>Physical Geology</td>
</tr>
<tr>
<td>GEOLOGY</td>
<td>1240</td>
<td>Historical Geology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physics</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS</td>
<td>1350</td>
<td>Introductory Physics I</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>1450</td>
<td>Introductory Physics II</td>
</tr>
</tbody>
</table>
Department Chair: Mark S. Meyers, P.E.
Office: 141A Ottensman Hall
Phone: 608.342.1543 or 608.342.1542
E-mail: meyersm@uwplatt.edu

Professors:
Max Anderson, P.E., D.E.E.
Christina Curras
Mark S. Meyers, P.E.
Thomas Nelson, P.E.
Samuel Owusu-Ababio, P.E.
Philip Parker, P.E.
Michael Penn, P.E.
Lisa A. Riedle, P.E.
Robert Schmitt, P.E.

Associate Professors:
Matthew Roberts, P.E.
Michael Thompson, P.E.

Assistant Professors:
Kristina Fields
Andrew Jacque, P.E.

Lecturer:
Larry Austin, P.E., R.L.S.

Academic Department Associate:
Diane Hardyman

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
www.uwplatt.edu/cee

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

The UW-Platteville Civil Engineering Program gives students a broad background in all areas of civil engineering, while permitting specialization in the senior year. Practical applications are emphasized with sufficient theory so that the individual can grow with the future as new materials, methods and designs develop. The program has outstanding laboratory and computer facilities where all students gain valuable hands-on practical experience. The use of computers and state-of-the-art practice equipment are integrated throughout the curriculum from freshman 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 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 repeat policy: Required general engineering 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 College of EMS and civil engineering, a dismissed student must appeal in writing to the College of EMS Admissions and Academic Standards Committee and only the College of EMS Admissions and Academic Standards Committee may grant the student re-admission. If the student is readmitted to civil engineering on a probationary status, any decisions, sanctions or remediation plans rendered by the EMS Admissions and Academic Standards Committee may hold the student to a higher standard than the above civil engineering policies. Any decisions, sanctions or remediation plans that hold a probationary student to a standard different from the civil engineering policies may be appealed by the student to the EMS Admissions and Academic Standards Committee. Probationary students in violation of their remediation plan may be subject to additional sanctions including being dropped from any CIVILENG course at any time at the discretion of the EMS Admissions and Academic Standards 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 ......................................................................103 credits

Civil Engineering Major (103 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2640</td>
<td>Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2740</td>
<td>Calculus and Analytic Geometry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2840</td>
<td>Calculus and Analytic Geometry III</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 3630</td>
<td>Differential Equations I</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 4030</td>
<td>Statistical Methods</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 1450</td>
<td>Chemistry for Engineers</td>
<td>5 cr</td>
</tr>
<tr>
<td>PHYSICS 2240</td>
<td>General Physics I</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSICS 2340</td>
<td>General Physics II</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOLOGY 3130</td>
<td>Engineering Geology</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 1000</td>
<td>Engineering Success Skills</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG 1030</td>
<td>Introduction to Engineering Projects</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG 1320</td>
<td>Engineering Computer Graphics</td>
<td>2 cr</td>
</tr>
<tr>
<td>GENENG 2820</td>
<td>Engineering Economy</td>
<td>2 cr</td>
</tr>
<tr>
<td>CIVILENG 2630</td>
<td>Elements of Surveying</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2130</td>
<td>Engineering Mechanics - Statics</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2220</td>
<td>Engineering Mechanics - Dynamics</td>
<td>2 cr</td>
</tr>
<tr>
<td>GENENG 2340</td>
<td>Mechanics of Materials</td>
<td>4 cr</td>
</tr>
<tr>
<td>GENENG 2630</td>
<td>Basic Thermoscience for Engineers</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2930</td>
<td>Applications of Electrical Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 2120</td>
<td>Civil Engineering Computer Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 3020</td>
<td>Construction Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 3030</td>
<td>Construction Materials</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 3100</td>
<td>Structural Mechanics</td>
<td>4 cr</td>
</tr>
<tr>
<td>CIVILENG 3150</td>
<td>Reinforced Concrete Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 3300</td>
<td>Fluid Mechanics</td>
<td>4 cr</td>
</tr>
<tr>
<td>CIVILENG 3340</td>
<td>Environmental Engineering</td>
<td>4 cr</td>
</tr>
<tr>
<td>CIVILENG 3530</td>
<td>Transportation Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 3730</td>
<td>Geotechnical Engineering I</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 4930</td>
<td>Design Project</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Civil Engineering Technical Electives
All students must complete one of the following emphasis areas with a minimum of 14 credits:

Construction Engineering

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVILENG 4020</td>
<td>Cost and Estimates</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 4030</td>
<td>Construction Equipment</td>
<td>2 cr</td>
</tr>
<tr>
<td>CIVILENG 4040</td>
<td>Construction Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG ####</td>
<td>Any 4000-level CIVILENG class</td>
<td>6 cr</td>
</tr>
</tbody>
</table>

Geotechnical Engineering

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVILENG 4160</td>
<td>Foundation Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 4730</td>
<td>Geotechnical Engineering II</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG ####</td>
<td>Any 4000-level CIVILENG class</td>
<td>8 cr</td>
</tr>
</tbody>
</table>
Environmental Engineering

CIVILENG 4410 Wastewater and Drinking Water Treatment (required) 3 cr

And at least two courses from:
CIVILENG 4300 Hydrology 3 cr
CIVILENG 4310 Ground Water Hydrology 3 cr
CIVILENG 4330 Solid and Hazardous Waste 3 cr
CIVILENG 4400 Municipal Hydraulics 3 cr
CIVILENG 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
or
CIVILENG 4550 Traffic Engineering 3 cr
CIVILENG 4520 Pavement Design 3 cr
or
CIVILENG 4560 Pavement Maintenance and Rehabilitation 2 cr
CIVILENG #### Any 4000-level CIVILENG class 2-3 cr

Environmental Engineering

www.uwplatt.edu/enve

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

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 general engineering 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 College of EMS and the UW-Platteville Environmental Engineering Program, a dismissed student must appeal in writing to the College of EMS Admissions and Academic Standards Committee and only the College of EMS Admissions and Academic Standards Committee may grant the student re-admission. If the student is readmitted to environmental engineering on a probationary status, any decisions, sanctions or remediation plans rendered by the EMS Admissions and Academic Standards Committee may hold the student to a higher standard than the above environmental engineering policies. Any decisions, sanctions or remediation plans that hold a probationary student to a standard different from the environmental engineering policies may be appealed by the student to the EMS Admissions and Academic Standards Committee. Probationary students in violation of their remediation plan may be subject to additional sanctions including being dropped from any CIVILENG course at any time at the discretion of the EMS Admissions and Academic Standards 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 .............................................132 credits
Major studies ..........................................................101 credits

Environmental Engineering Major

(101 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2640</td>
<td>Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2740</td>
<td>Calculus and Analytic Geometry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2840</td>
<td>Calculus and Analytic Geometry III</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 3630</td>
<td>Differential Equations</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 4030</td>
<td>Statistical Methods</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 1450</td>
<td>Chemistry for Engineers</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3130</td>
<td>Environmental Chemistry</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3110</td>
<td>Environmental Chemistry Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>BIOLOGY 3240</td>
<td>Microbiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSICS 2240</td>
<td>General Physics I</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOLOGY 3130</td>
<td>Engineering Geology</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOLOGY 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>
<tr>
<td>GENENG 1030</td>
<td>Introduction to Engineering Projects</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG 1320</td>
<td>Engineering Computer Graphics</td>
<td>2 cr</td>
</tr>
<tr>
<td>GENENG 2820</td>
<td>Engineering Economy</td>
<td>2 cr</td>
</tr>
<tr>
<td>CIVILENG 2630</td>
<td>Elements of Surveying</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2130</td>
<td>Engineering Mechanics - Statics</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2340</td>
<td>Mechanics of Materials</td>
<td>4 cr</td>
</tr>
<tr>
<td>GENENG 2630</td>
<td>Basic Thermosience for Engineers</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 2120</td>
<td>Civil Engineering Computer Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 3300</td>
<td>Fluid Mechanics</td>
<td>4 cr</td>
</tr>
<tr>
<td>CIVILENG 3340</td>
<td>Environmental Engineering</td>
<td>4 cr</td>
</tr>
<tr>
<td>CIVILENG 3730</td>
<td>Geotechnical Engineering I</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 4300</td>
<td>Hydrology</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 4310</td>
<td>Groundwater Hydrology</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 4330</td>
<td>Solid and Hazardous Waste</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 4400</td>
<td>Municipal Hydraulics</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 4410</td>
<td>Wastewater and Drinking Water Treatment</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 4930</td>
<td>Design Project</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Technical Electives (12 credits):

Recommended Technical Electives:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVILENG 4440</td>
<td>Stormwater, Wetlands and Watershed Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 4630</td>
<td>Geographic Information Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 4640</td>
<td>Land Development and Planning</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Other Available Technical Electives:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 4350</td>
<td>Soil and Water Conservation</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3110</td>
<td>Freshwater Biology</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENERGY 2130</td>
<td>Energy, Environment, and Society</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 3020</td>
<td>Construction Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 3030</td>
<td>Construction Materials</td>
<td>3 cr</td>
</tr>
</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 activi-
ties. 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, walk-throughs, 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.

**Major Core Requirements**

**Required Courses (26 credits):**

- COMPUTER 1010 Introduction to Computer Science 1 cr
- COMPUTER 1430 Programming in C++ 3 cr
- COMPUTER 2230 Programming in COBOL 3 cr
- COMPUTER 2430 Object Oriented Programming and Data Structures I 3 cr
- COMPUTER 3230 Computer Architecture/Operating Systems 3 cr
- COMPUTER 3630 Database Design and Implementation 3 cr
- COMPUTER 4110 Seminar 1 cr
- ECONOMIC 2130 Principles of Macroeconomics 3 cr
- or
- ECONOMIC 2230 Principles of Microeconomics 3 cr
- ENGLISH 3000 Technical Writing 3 cr
- BUSADMIN 2330 Leadership and Management 3 cr

**Computer Technology Emphasis**

**Required Courses (22 credits):**

- COMPUTER 2630 Object Oriented Programming 3 cr
  - Data Structures II
- SOFTWARE 3430 Object Oriented Analysis and Design 3 cr
- COMPUTER 3520 Programming Language Structures 3 cr
- COMPUTER 3830 Data Communication and Computer Networks 3 cr
- MATH 2640 Calculus and Analytical Geometry I 4 cr
- MATH 2730 Discrete Mathematics 3 cr
- SOFTWARE 2730 Introduction to Software Engineering 3 cr

**Electives (9 credits):**

- COMPUTER 3000* level and up
- SOFTWARE 3330 Intermediate Software Engineering 3 cr
- SOFTWARE 3730 Software Quality 3 cr
- SOFTWARE 3860 Software Maintenance and Reengineering 3 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
- ELECTENG 3770 Logic and Digital Design 3 cr
- ELECTENG 3780 Introduction to Microprocessors 3 cr

*COMPUTER 4830, COMPUTER 4930 and COMPUTER 4990 can be counted only with the consent of the department.

**Application Domain Electives (12 credits):**

Select 12 credits in a discipline other than computer science with at least three credits at the 3000 level or higher. At most, two courses can be below the 2000 level. If software engineering or electrical engineering is chosen, the selected courses cannot also be selected as technical electives. If software engineering is chosen, SOFTWARE 2730 and SOFTWARE 3430 cannot be counted. If mathematics is chosen, the courses must be from courses MATH 2640 and higher. If English is chosen, ENGLISH 1130 and ENGLISH 1230 cannot be counted. The economics, English, mathematics and business courses listed as required courses can count towards the 12 credits of domain electives.
Computer Information Systems Emphasis

**Required Courses (30-31 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER</td>
<td>Systems Analysis and Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>Systems Develop and Implementation</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>Applications in Information Systems</td>
<td>3 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>ACCTING</td>
<td>Accounting Issues for Managers</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>Intermediate Accounting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>Intermediate Accounting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>Intermediate Accounting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ECONOMIC</td>
<td>Interpretation of Business and Economic Data</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>Elementary Statistics</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>Statistical Methods with Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>Calculus with Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG</td>
<td>Introduction to Microprocessors</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Electives (12 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER</td>
<td>Programming in Visual Basic</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>Object Oriented Programming and Data Structures II</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>Windows Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>Client/Server Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>Data Communication and Computer Networks</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>Web Protocols, Technologies and Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>CICS Application Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>2990, COMPUTER 4830, COMPUTER 4930 and COMPUTER 4990 can be counted only with the consent of the department.</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</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER</td>
<td>Programming in C++</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>Object Oriented Programming and Data Structures I</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER</td>
<td>Computer Arch Operating Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>Introduction to Microprocessors</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Electives (15 credits):**

Electives for the minor may be selected from any courses in computer science, software engineering or Electrical Engineering 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
- Robert Hasker
- Mike Rowe

**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.
Software Engineering Required Courses (25 credits)

Modern Languages (12 credits)

- ENGLISH 1130 Freshman Composition 3 cr
- ENGLISH 1000 Introduction to Engineering 1 cr
- ENGLISH 1030 Introduction to Engineering Projects 1 cr

MATH 1430 Programming in C++ 3 cr
MATH 2640 Calculus and Analytic Geometry I 4 cr
MATH 2730 Discrete Mathematics 3 cr
MATH 2740 Calculus and Analytic Geometry II 4 cr

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)

- 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 2730 Discrete Mathematics 3 cr
- MATH 4030 Statistical Methods with Applications 3 cr

or

MATH 3230 Linear Algebra 3 cr
MATH 3630 Differential Equations I 3 cr

Basic Sciences (12 credits)

- PHYSICS 2240 General Physics I 4 cr
- PHYSICS 2340 General Physics II 4 cr

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
or
- COMPUTER 3920 Computer Graphics 3 cr
or
- 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
or
- 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)**

- INDESTENG 3430 Human Factors Engineering 3 cr
- INDESTENG 3530 Operations Research I 3 cr
- INDESTENG 4430 Total Quality Management 3 cr
- INDESTENG 4730 Engineering Management 3 cr
- INDESTENG 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.
Chair: Philip Sealy  
Office: 327 Engineering Hall  
Phone: 608.342.1536  
E-mail: sealy@uwplatt.edu

Emeritus Professors:
Frank Lofy  
Richard D. Shultz

Professors:
David M. Drury  
Yong Y. Li  
Mesut Muslu  
Piyare L. Sharma

Associate Professors:
Dale Buechler  
Gang Feng  
Xiaomin Kou  
Nader Safari-Shad  
Philip J. Sealy

Assistant Professor:
Steven Popovich

Lecturer:
John Goomey

Academic Department Associate:
Rose Durni

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.

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 goals 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 expected student learning outcomes of this goal are to graduate engineers who have:

a. the ability to apply science, engineering science and mathematics to solve engineering problems
b. the ability to put their engineering and design skills into practice
c. the ability to use industrial-quality laboratory equipment and engineering software for analysis, testing, design and communication
d. the ability to design systems, components and processes that satisfy predetermined constraints
e. the ability to recognize engineering problems, put them in solvable form and develop and evaluate alternative solutions

2. have the professional skills to function effectively in the work environment as well as in the community
Bachelor of Science Degree

General Requirements

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.

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
(Math 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
ENGRPHYS 3930 Microsystems and Nanotechnology 3 cr

Electrical Engineering Required Courses (28 credits):
ELECTENG 1020 Electrical Engineering Projects and Tools 1 cr
ELECTENG 1210 Circuit Modeling I 3 cr
ELECTENG 2210 Circuit Modeling II 4 cr
ELECTENG 2220 Signals and Systems 4 cr
ELECTENG 3020 Analog Electronics 4 cr
ELECTENG 3140 Electric and Magnetic Fields 4 cr
ELECTENG 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.

General Requirements

Bachelor of Science Degree

Total for graduation .................................................. 131 credits
Major studies ............................................................ 103 credits

The expected student learning outcomes of this goal are to graduate engineers who:

a. the ability to communicate their ideas and designs clearly orally, in written form and graphically
b. the ability to work as members of a team
c. had the opportunity to develop leadership skills
3. have a solid understanding of professional and ethical responsibility

The expected student learning outcome of this goal is to graduate engineers who:

a. understand ethical principles and their role in the engineering profession
b. have a broad education in order to understand contemporary issues and the impacts of technology on society and the environment

The expected student learning outcomes of this goal are to graduate engineers who:

a. have sufficient knowledge of the humanities and social sciences to understand contemporary issues concerning the interaction between technology and society
b. understand that the products they develop and the methods used to manufacture them can affect the environment
5. have the ability to engage in lifelong learning and recognize its importance

The expected student learning outcomes of this goal are to graduate engineers who:

a. realize that the practice of electrical engineering is constantly evolving and that engineers must have the ability to acquire new knowledge and skills on their own
b. have the ability to earn graduate degrees or pursue other continuing education opportunities

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 an average G.P.A. of 2.00 or higher in electrical engineering courses.

General Requirements

Bachelor of Science Degree

Total for graduation .................................................. 131 credits
Major studies ............................................................ 103 credits

Electrical Engineering Major (103 credits)

Mathematics Courses (15 credits):
MATH 2640 Calculus and Analytic Geometry I 4 cr
MATH 2740 Calculus and Analytic Geometry II 4 cr
MATH 2840 Calculus and Analytic Geometry III 4 cr
MATH 3630 Differential Equations I 3 cr

Advanced Math Electives (3 credits):
MATH 2730 Discrete Mathematics 3 cr
(Math 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
ENGRPHYS 3930 Microsystems and Nanotechnology 3 cr

Electrical Engineering Required Courses (28 credits):
ELECTENG 1020 Electrical Engineering Projects and Tools 1 cr
ELECTENG 1210 Circuit Modeling I 3 cr
ELECTENG 2210 Circuit Modeling II 4 cr
ELECTENG 2220 Signals and Systems 4 cr
ELECTENG 3020 Analog Electronics 4 cr
ELECTENG 3140 Electric and Magnetic Fields 4 cr
ELECTENG 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTENG 3130</td>
<td>Solid State Electronics Devices</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 3780</td>
<td>Introduction to Microprocessors</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4010</td>
<td>UHF Amplifier Design</td>
<td>1 cr</td>
</tr>
<tr>
<td>ELECTENG 4020</td>
<td>UHF Oscillator Design</td>
<td>1 cr</td>
</tr>
<tr>
<td>ELECTENG 4040</td>
<td>Analog IC Design</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4050</td>
<td>Advanced Analog Electronic Circuits</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4430</td>
<td>Power Electronics and Electrical Machines</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4610</td>
<td>Communication Systems</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4620</td>
<td>Optical Systems</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4630</td>
<td>Advanced Communication Systems</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4980</td>
<td>Current Topics in Electrical Engineering</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>ELECTENG 4990</td>
<td>Independent Study</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

**Communications and Electronics Emphasis**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTENG 3130</td>
<td>Solid State Electronics Devices</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 3780</td>
<td>Introduction to Microprocessors</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4010</td>
<td>UHF Amplifier Design</td>
<td>1 cr</td>
</tr>
<tr>
<td>ELECTENG 4020</td>
<td>UHF Oscillator Design</td>
<td>1 cr</td>
</tr>
<tr>
<td>ELECTENG 4040</td>
<td>Analog IC Design</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4050</td>
<td>Advanced Analog Electronic Circuits</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4430</td>
<td>Power Electronics and Electrical Machines</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4610</td>
<td>Communication Systems</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4620</td>
<td>Optical Systems</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4630</td>
<td>Advanced Communication Systems</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4980</td>
<td>Current Topics in Electrical Engineering</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>ELECTENG 4990</td>
<td>Independent Study</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

**Controls Emphasis**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTENG 3410</td>
<td>Electric Power Engineering</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 3780</td>
<td>Introduction to Microprocessors</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4310</td>
<td>Modern Control Systems</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4320</td>
<td>Digital Signal Processing</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4350</td>
<td>Discrete Time Control Systems</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4980</td>
<td>Current Topics in Electrical Engineering</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>ELECTENG 4990</td>
<td>Independent Study</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

**Power and Energy Emphasis**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTENG 3410</td>
<td>Electric Power Engineering</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 3780</td>
<td>Introduction to Microprocessors</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4430</td>
<td>Power Electronics and Electrical Machines</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4440</td>
<td>Electric Motor Drives</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4450</td>
<td>Power Systems Analysis</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4980</td>
<td>Current Topics in Electrical Engineering</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>ELECTENG 4990</td>
<td>Independent Study</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

**Computer Engineering Emphasis**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTENG 3130</td>
<td>Solid State Electronics Devices</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 3780</td>
<td>Introduction to Microprocessors</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4720</td>
<td>Microcomputer Architecture and Interfacing</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4750</td>
<td>Advanced Digital Design</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4980</td>
<td>Current Topics in Electrical Engineering</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>ELECTENG 4990</td>
<td>Independent Study</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>
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 Ottenman Hall.

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>CHEMISTRY</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></td>
<td></td>
<td>Humanities or social science elective</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Total credits: 14-17
General Engineering Program Requirements

<table>
<thead>
<tr>
<th>Engineering Major</th>
<th>CHEMISTRY 1450</th>
<th>ENGLISH 1130</th>
<th>GENENG 1000</th>
<th>GENENG 1030</th>
<th>GENENG 1320</th>
<th>GENENG 2030</th>
<th>MATH 2640</th>
<th>MATH 2740</th>
<th>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></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></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Eng. Physics</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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></td>
<td></td>
<td></td>
<td></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></td>
<td></td>
<td></td>
<td></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></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Software</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

* Select either GE 1320 or GE 2030.

1. Each student must complete the following core courses:
   - CHEMISTRY 1450 Chemistry for Engineers 5 cr
   - ENGLISH 1130 Freshman Composition 3 cr
   - GENENG 1000 Engineering Success Skills 1 cr
   - GENENG 1030 Introduction to Engineering Projects 1 cr
   - GENENG 1320 Engineering and Computer Graphics 2 cr
   - GENENG 2030 Engineering Modeling and Design 3 cr
   - MATH 2640 Calculus and Analytic Geometry I 4 cr
   - MATH 2740 Calculus and Analytic Geometry II 4 cr
   - MATH 2730 Discrete Mathematics 3 cr
   - PHYSICS 2240 General Physics I 4 cr
   - COMPUTER 1430 Programming in C++ 3 cr

2. Students who complete their core courses in fall 2011 must earn the following C.G.P.A. to gain entry into their respective professional program:
   - Civil engineering: 2.60
   - Electrical engineering: 2.30
   - 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
1. 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. Students who are dismissed from the university are also dismissed from the College of EMS and must appeal to both the university and the College of EMS for reinstatement. A student who has been dismissed may not enroll in any new engineering classes. Students should address appeals for reinstatement to the College of EMS Admissions and Academic Standards Committee.

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.

Microsystems and Nanotechnology Minor
UW-Platteville’s minor in microsystems and nanotechnology is designed to prepare students to contribute to this rapidly developing field. In this minor, students build on their knowledge bases in their chosen disciplines (biology, chemistry, electrical engineering, engineering physics or mechanical engineering). Students are introduced to the basic issues and ideas of microsystems/nanotechnology and to the interdisciplinary body of knowledge that allows scientists and
engineers from different backgrounds to collaborate at the micro/nano scale. Students also gain training in experimental techniques for micro/nano scale fabrication and characterization, as well as participate in a research project.

The microsystems/nanotechnology minor consists of 24 credits, with some of these credits overlapping with several existing programs. By careful selection of elective courses within a student’s major, the student may complete this minor with only six credits beyond the number required for graduation.

**Required Courses (9 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGRPHYS 3930</td>
<td>Microsystems and Nanotechnology</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4520</td>
<td>Nanofabrication and Characterization</td>
<td>2 cr</td>
</tr>
<tr>
<td>GENENG 4230</td>
<td>Design and Simulation of MEMS</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 4000</td>
<td>Research in Microsystems and Nanotechnology</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

**Electives (15 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMSTRY 4630</td>
<td>General Biochemistry</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 4130</td>
<td>Physical Chemistry</td>
<td>3 cr</td>
</tr>
<tr>
<td>ELECTENG 3020</td>
<td>Analog Electronics</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 3130</td>
<td>Solid State Electronic Devices</td>
<td>3 cr</td>
</tr>
<tr>
<td>ELECTENG 3310</td>
<td>Automatic Controls</td>
<td>3 cr</td>
</tr>
<tr>
<td>ELECTENG 4050</td>
<td>Advanced Analog Electronic Circuits</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 4310</td>
<td>Modern Controls Systems</td>
<td>4 cr</td>
</tr>
<tr>
<td>ENGRPHYS 3640</td>
<td>Electric and Magnetic Fields</td>
<td>4 cr</td>
</tr>
<tr>
<td>ELECTENG 3140</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGRPHYS 3240</td>
<td>Applied Mechanics</td>
<td>4 cr</td>
</tr>
<tr>
<td>ENGRPHYS 4140</td>
<td>Applied Optics</td>
<td>4 cr</td>
</tr>
<tr>
<td>ENGRPHYS 4210</td>
<td>Sensors Laboratory</td>
<td>2 cr</td>
</tr>
<tr>
<td>ENGRPHYS 4220</td>
<td>Applications of Modern Physics</td>
<td>2 cr</td>
</tr>
<tr>
<td>MECHNCHL 3040</td>
<td>Engineering Materials</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 3230</td>
<td>Manufacturing Processes</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 3330</td>
<td>Design of Machine Elements</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4330</td>
<td>Automatic Controls</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4430</td>
<td>Advanced Materials</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4440</td>
<td>Failure of Materials</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4500</td>
<td>Biomedical Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4800</td>
<td>Finite Element Method</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4840</td>
<td>Vibration Systems Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4830</td>
<td>Mechatronics</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2540</td>
<td>Science, Technology and Ethics</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
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.

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 cryptography 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.

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2640</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2740</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2840</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 3230</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 3330</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 4030</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 4430</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 4810</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

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
a) 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2640</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2740</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2840</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 3020</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 3130</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 3230</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 3330</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 4030</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 4430</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 4810</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

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: CHEMSTRY 1140 General Chemistry, CHEMSTRY 1450 Chemistry for Engineers or PHYSICS 2240 General Physics I.

NOTE: The following policies will apply when calculating the G.P.A. for (i) admission to student teaching AND (ii) application for teacher licensure:

a) The G.P.A. will be calculated from the 40 credits of mathematics courses counted toward the major. The required computer science course and natural science course are not counted in the G.P.A. calculation.

b) Transfer courses at the time of matriculation to UW-Platteville will be counted in the 2.75 G.P.A. calculation for mathematics majors in secondary education.

c) Transfer courses that are not repeats of courses taken at UW-Platteville will be counted in the 2.75 G.P.A. calculation for mathematics majors in secondary education.

d) Transfer courses that are repeats of courses taken at UW-Platteville will not be counted in the 2.75 G.P.A. calculation for mathematics majors in secondary education.

Actuarial Science Emphasis (64 credits)
Students completing this emphasis must complete all the requirements for the 40-credit mathematics major, including MATH 4040 Probability and Statistics as well as completing 24 credits in the following business-related courses.

Finances 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:
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCTING 2101</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 3230</td>
<td>Statistical Methods with Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3710</td>
<td>Bank Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3930</td>
<td>Investments</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 4030</td>
<td>Financial Decision Making</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Economics Requirement
All mathematical majors with an emphasis in finance must successfully complete at least two of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSADMIN 3400</td>
<td>Personal Finance Planning</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3430</td>
<td>Risk Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3640</td>
<td>Financial Systems Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3950</td>
<td>International Finance</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

In addition to these required courses, students majoring in this emphasis should also consider taking the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECONOMIC 2130</td>
<td>Macroeconomics</td>
<td>3 cr</td>
</tr>
<tr>
<td>ECONOMIC 2230</td>
<td>Microeconomics</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 1730</td>
<td>Mathematics of Finance</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Mathematics Minor (24 credits)
Mathematics minors must earn a minimum of 24 credits in mathematics subject to the restrictions outlined below. Credit for courses numbered below 2640 or between 3000 and 3100 may not be included in this total. The courses selected to satisfy this requirement must include:

Required Courses:
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2640</td>
<td>Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2740</td>
<td>Calculus and Analytic Geometry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2840</td>
<td>Calculus and Analytic Geometry III</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

At least one course from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3230</td>
<td>Linear Algebra</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 3630</td>
<td>Differential Equations I</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 3730</td>
<td>Numerical Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 4030</td>
<td>Statistical Methods with Applications</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Mathematics Electives Requirement
In addition to the requirements described above, all mathematics minors must complete at least nine additional credits in mathematics. Courses numbered below 2640 or between 3000 and 3100 may not be counted toward this requirement.
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.
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. Graduates successfully apply technical knowledge to solve industrial engineering problems
2. Graduates communicate effectively orally and in writing
3. Graduates 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)

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 4030 Statistical Methods 3 cr
CHEMISTRY 1450 Chemistry for Engineers 5 cr
PHYSICS 2240 General Physics I 4 cr
BIOLOGY 2340 Essentials of Anatomy and Physiology 4 cr
PHYSICS 2340 General Physics II 4 cr
or BIOLOGY 4440 Human Gross Anatomy 4 cr
GENENG 1000 Engineering Success Skills 1 cr
GENENG 1030 Introduction to Engineering Projects 1 cr
GENENG 1320 Engineering/Computer Graphics 2 cr
or GENENG 2030 Engineering Modeling and Design 3 cr
GENENG 2130 Engineering Mechanics - Statics 3 cr
GENENG 2220 Engineering Mechanics - Dynamics 2 cr
GENENG 2340 Mechanics of Materials 4 cr
GENENG 2820 Engineering Economy 2 cr
GENENG 2630 Basic Thermoscience 3 cr
or GENENG 2930 Applications of Electrical Engineering 3 cr

Professional Engineering Courses
(48 credits)

INDSTENG 2130 Fundamentals of Industrial and Systems Engineering 3 cr
INDSTENG 3130 Industrial Engineering Computer Applications 3 cr
INDSTENG 3430 Human Factors Engineering 3 cr
INDSTENG 3530 Operations Research I 3 cr
INDSTENG 3630 Work Measurement and Design 3 cr
INDSTENG 4030 Production and Operations Analysis 3 cr
INDSTENG 4230 Facilities Design 3 cr
INDSTENG 4430 Quality Engineering 3 cr
INDSTENG 4730 Engineering Management 3 cr
INDSTENG 4930 Industrial Systems Design 3 cr
MECHNCHL 3040 Engineering Materials 3 cr

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

MECHNCHL 3230 Manufacturing Processes 3 cr
INDSTENG 4630 Manufacturing Systems Design 3 cr

Engineering Management Emphasis

INDSTENG 3780 System Safety Engineering 3 cr
INDSTENG 4130 Simulation 3 cr
INDSTENG 4330 Material Handling and Warehousing 3 cr
INDSTENG 4830 Engineering Continuous Improvement 3 cr

At least 9 credits from:

INDSTENG 3780 System Safety Engineering 3 cr
INDSTENG 4130 Simulation 3 cr
INDSTENG 4330 Material Handling and Warehousing 3 cr
BUSADMIN 3600 Regulatory Compliance Management 3 cr
BUSADMIN 4100 Supply Chain Management 3 cr

Human Systems Emphasis

MECHNCHL 4500 Biomedical Engineering 3 cr
INDSTENG 4540 Human Performance and Systems Design 3 cr

At least 9 credits from:

INDSTENG 3780 System Safety Engineering 3 cr
INDSTENG 4750 Principles and Application of Project Management 3 cr
PSYCHLGY 3000 Cognitive Psychology 3 cr
PSYCHLGY 3430 Physiological Psychology 3 cr
PSYCHLGY 3960 Behavioral Research I 3 cr

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 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.

Educational Objective and Outcomes

1. Graduate proficient mechanical engineers with 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. Graduate mechanical engineers with 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. Graduate engineers who 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. Graduate engineers who 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. Graduate 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, CHEMSTRY 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 courses. Successful completion means earning a “D” or better in every course with the exceptions of MATH 2640, MATH 2740, MATH 2840, PHYSICS 2240, GENENG 2130 and GENENG 2340. 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.

**Dismissal from Mechanical Engineering:** In addition to all university and College of EMS policies, if a grade of “F” is earned in the second attempt of a mechanical engineering course, the student will be dismissed from the College of EMS and the mechanical engineering department.

**Re-Admittance Policy:** To gain re-admittance to the College of EMS and mechanical engineering, a dismissed student must appeal in writing to the College of EMS Admissions and Academic Standards Committee. Only the College of EMS Admissions and Academic Standards Committee may grant the student re-admission. If the student is readmitted to mechanical engineering on a probationary status, any decisions, sanctions or remediation plans rendered by the EMS Admissions and Academic Standards Committee may hold the student to a standard different from the mechanical engineering policies. Any decisions, sanctions or remediation plans that hold a probationary student to a standard different from the mechanical engineering policies may be appealed by the student to the EMS Admissions and Academic Standards Committee. Probationary students in violation of their remediation plan may be subject to additional sanctions, including being dropped from any mechanical engineering course at any time at the discretion of the EMS Admissions and Academic Standards Committee.

**General Requirements**

**Bachelor of Science Degree**

<table>
<thead>
<tr>
<th>Total for graduation</th>
<th>132 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major studies</td>
<td>101 credits</td>
</tr>
</tbody>
</table>

**Mechanical Engineering Major (101 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2640</td>
<td>Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2740</td>
<td>Calculus and Analytic Geometry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2840</td>
<td>Calculus and Analytic Geometry III</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 3630</td>
<td>Differential Equations</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 4030</td>
<td>Statistical Methods with Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 1450</td>
<td>Chemistry for Engineers</td>
<td>5 cr</td>
</tr>
<tr>
<td>PHYSICS 2240</td>
<td>General Physics I</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSICS 2340</td>
<td>General Physics II</td>
<td>4 cr</td>
</tr>
<tr>
<td>GENENG 1000</td>
<td>Engineering Success Skills</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG 1030</td>
<td>Introduction to Engineering Projects</td>
<td>1 cr</td>
</tr>
<tr>
<td>GENENG 2030</td>
<td>Engineering Modeling and Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2820</td>
<td>Engineering Economy</td>
<td>2 cr</td>
</tr>
<tr>
<td>GENENG 2130</td>
<td>Engineering Mechanics - Statics</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2230</td>
<td>Engineering Mechanics - Dynamics</td>
<td>3 cr</td>
</tr>
<tr>
<td>GENENG 2340</td>
<td>Mechanics of Materials</td>
<td>4 cr</td>
</tr>
<tr>
<td>GENENG 2930</td>
<td>Applications of Electrical Engineering</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Professional Engineering Courses (50 credits)**

(minimum “C” average required)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECHNCHL 2630</td>
<td>Thermodynamics</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 3030</td>
<td>Dynamical Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 3040</td>
<td>Engineering Materials</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 3230</td>
<td>Manufacturing Processes</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 3300</td>
<td>Fluid Dynamics</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 3330</td>
<td>Design of Machine Elements</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 3430</td>
<td>Introduction to Computational Methods</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 3640</td>
<td>Heat Transfer</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 3720</td>
<td>Mechanical Systems Lab</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 3830</td>
<td>Mechanics and Machines</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4330</td>
<td>Automatic Controls</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4720</td>
<td>Thermal Systems Lab</td>
<td>2 cr</td>
</tr>
<tr>
<td>MECHNCHL 4730</td>
<td>Thermo-Fluid Systems Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4930</td>
<td>Senior Design Project</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Technical Electives (9 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTENG 4310</td>
<td>Modern Control Systems</td>
<td>4 cr</td>
</tr>
<tr>
<td>GENENG 4230</td>
<td>Design and Simulation of MEMS</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDESTENG 4430</td>
<td>Total Quality Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDESTENG 4730</td>
<td>Engineering Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>INDESTENG 4830</td>
<td>Engineering Continuous Improvement</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4430</td>
<td>Advanced Materials</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4440</td>
<td>Failure of Materials</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4500</td>
<td>Biomedical Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4520</td>
<td>Power Plant Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4550</td>
<td>Heat Transfer Applications</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4560</td>
<td>Computational Fluid Dynamics</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4600</td>
<td>Energy Systems Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4630</td>
<td>Internal Combustion Engine Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4640</td>
<td>Mechanical Design of Internal Combustion Engines</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4650</td>
<td>Environmental Control Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4740</td>
<td>Mechanical Systems Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4750</td>
<td>Computational Methods in Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4800</td>
<td>Finite Element Method</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4830</td>
<td>Mechatronics</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4840</td>
<td>Vibration System Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4850</td>
<td>Computer-Aided Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>MECHNCHL 4980</td>
<td>Current Topics in Engineering</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>
A well-qualified faculty, who view their principal responsibility as teaching, take pride in advancing their majors in liberal arts and professional programs and engaging in productive interactions with the community at large.

International Exchange Program
Students are strongly encouraged to take advantage of opportunities for international and intercultural experiences to broaden their horizons, increase their understanding of others and prepare to live in the global community. UW-Platteville makes every effort to create these opportunities so that students do not lose any time toward graduation or incur significant additional expense.

Many courses required for general education can be fulfilled through UW-Platteville’s education abroad programs in England, France, Germany, Ireland, Mexico, Spain, Italy, China, Australia and Fiji.

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 which 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 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 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 college utilizes the Children’s Center located on campus as an observation and clinical facility to prepare students for early childhood methods classes.

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

Department Chair: Thomas E. Caywood
Office: 1174 Ullsvik Hall
Phone: 608.342.1653
E-mail: caywood@uwplatt.edu

Professors:
Cheryl Banachowski-Fuller
Thomas E. Caywood
Joe B. Lomax
David P. Van Buren

Assistant Professors:
Sabina Burton
Aric Dutelle
Dianna Johnson

Lecturers:
Steve Elmer
Joseph LeFevre
Amy Nemmetz
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.

The UW-Platteville Departments of Chemistry and Engineering Physics, Biology and Criminal Justice cooperate in preparing students interested in becoming crime laboratory analysts.

In cooperation with the UW-Platteville Department of Psychology and the Counselor Education Graduate Program, undergraduate criminal justice majors can obtain AODA (alcohol and other drug abuse) certification.
The UW-Platteville Departments of Criminal Justice and Psychology also cooperate in the social work certification process.

General Requirements

Bachelor of Science Degree
Total for graduation .................................................. 120 credits
General education .................................................. 44-58 credits
Major studies .................................................. 36 credits

Bachelor of Arts Degree
Total for graduation .................................................. 120 credits
General education .................................................. 44-58 credits
Major studies .................................................. 36 credits
Bachelor of Arts supplement ........................................ 4-6 credits

Bachelor of Arts Supplement

Students must choose one of two options.

Option One (6 credits)
Required Courses (6 credits, 3 credits per discipline):
PHLSPHY 2330 Origins of Western Philosophy 3 cr
PHLSPHY 2430 Philosophy in the Modern World 3 cr
PHLSPHY 2530 Ethics 3 cr
PHLSPHY 3430 Social Philosophy 3 cr
PHLSPHY 3630 Philosophy of Law 3 cr
ENGLISH 2430 American Literature through the Civil War 3 cr
ENGLISH 2530 American Literature since the Civil War 3 cr
ENGLISH 2230 Any English course from 3140 through 3760 3 cr
HISTORY 2230 Any history course from 3120 through 3430 3 cr

Option Two (4 credits)
Required Courses (4 credits):
FRENCH 2040 Intermediate French 4 cr
GERMAN 2240 Intermediate German 4 cr
SPANISH 2840 Intermediate Spanish 4 cr

Criminal Justice Major (36 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
CRIMLJUS 4930 Criminal Justice Seminar 3 cr
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

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)

Required Courses:
CRIMLJUS 2930 Interviewing 3 cr
CRIMLJUS 3130 Criminal Investigations 3 cr
CRIMLJUS 4130 Police Community Relations 3 cr

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 Emphasis
(15-16 credits)

Required Courses:
FORENSIC 1320 Introduction to Crime Scene Investigation 3 cr
FORENSIC 3040 Crime Scene Processing Techniques 4 cr
FORENSIC 3140 Criminalistics 5 cr
**Electives (4-6 credits):**

FORENSIC 2320 Fingerprint Classification and Development 3 cr
FORENSIC 2420 Evidence Collection and Preservation 2 cr
FORENSIC 4620 Current Topics 1-3 cr
FORENSIC 2620 Investigative Photography 3 cr

**Forensic Investigation Major – Bachelor of Science**

**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**
1. Student must complete a portfolio as designated by the criminal justice department
2. Student must earn a “C” or better in ENGLISH 1130 and ENGLISH 1230 and pass the departmental writing proficiency exam before taking upper division criminal justice and forensic investigation courses

**Non-Departmental Core Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 3000</td>
<td>Technical Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY +</td>
<td></td>
<td>4-5 cr</td>
</tr>
<tr>
<td>CHEMISTRY +</td>
<td></td>
<td>4-5 cr</td>
</tr>
</tbody>
</table>

(+ in addition to general education requirements)

**Criminal Justice Departmental Core Requirements**
(Grade of “C” or higher required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS 1130</td>
<td>Introduction to Criminal Justice</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 3900</td>
<td>Research Methods in Criminal Justice</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 4030</td>
<td>Criminal Law</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Forensic Investigation Requirements**
(Grade of “C” or higher required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORENSIC 1320</td>
<td>Introduction to Crime Scene Investigation</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC 2320</td>
<td>Fingerprint Classification and Development</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 2620</td>
<td>Investigative Photography</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC 3040</td>
<td>Crime Scene Processing Techniques (w/Lab)</td>
<td>4 cr</td>
</tr>
<tr>
<td>CRIMLJUS 3130</td>
<td>Criminal Investigations</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC 3140</td>
<td>Criminalistics (w/Lab)</td>
<td>5 cr</td>
</tr>
<tr>
<td>FORENSIC 4020</td>
<td>Courtroom Testimony and Evidence</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC 4920</td>
<td>Forensic Investigation Seminar</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Forensic Investigation Electives (6 credits minimum)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS 2130</td>
<td>The Police Function</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 2930</td>
<td>Interviewing</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC 4500</td>
<td>Directed Individual Studies</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>FORENSIC 4620</td>
<td>Current Topics in Forensic Investigation</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORENSIC 4720</td>
<td>Honors Research in Forensic Investigation</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC 4880</td>
<td>Internship in Forensic Investigation</td>
<td>8 cr</td>
</tr>
</tbody>
</table>

**Internship Eligibility**
To be eligible for an internship, the student must have earned at least 60 credits plus 12 upper division criminal justice/forensic investigation credits, have a G.P.A. of 2.25 or higher and have achieved a passing score on the department’s writing proficiency examination.

**Criminal Justice Minor (24 credits)**

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS 1130</td>
<td>Introduction to Criminal Justice</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 2130</td>
<td>The Police Function</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 2230</td>
<td>Correctional Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 4030</td>
<td>Criminal Law</td>
<td>3 cr</td>
</tr>
<tr>
<td>Electives in criminal justice</td>
<td></td>
<td>12 cr</td>
</tr>
</tbody>
</table>

**Forensic Investigation Minor (26 credits)**

This minor is not open to criminal justice majors.

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:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS 1130</td>
<td>Introduction to Criminal Justice</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC 1320</td>
<td>Introduction to Crime Scene Investigation</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC 2320</td>
<td>Fingerprint Classification and Development</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 2620</td>
<td>Investigative Photography</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC 3040</td>
<td>Crime Scene Processing Techniques (w/Lab)</td>
<td>4 cr</td>
</tr>
<tr>
<td>CRIMLJUS 3130</td>
<td>Criminal Investigation</td>
<td>3 cr</td>
</tr>
<tr>
<td>FORENSIC 3140</td>
<td>Criminalistics (w/Lab)</td>
<td>5 cr</td>
</tr>
</tbody>
</table>

130
About the Ethnic Studies Program and Minor
The Ethnic Studies Program Council includes Carl Allsup, ethnic studies; Rosalyn Broussard, social sciences; Teresa Burns, humanities; Rea Kirk, education; Joe Lomax, criminal justice; Laura Wenddorff, humanities; Laura Beadling, 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 which 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 which 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:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHNSTDY 1030</td>
<td>Race, Gender and Class in the U.S.</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>ETHNSTDY 2200</td>
<td>Introduction to Ethnic Studies</td>
</tr>
</tbody>
</table>

**Electives (12 credits):**

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

Minor in Ethnic Studies (24 credits)

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHNSTDY 1030</td>
<td>Race, Gender and Class in the U.S.</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>ETHNSTDY 2200</td>
<td>Introduction to Ethnic Studies</td>
</tr>
</tbody>
</table>

**Electives (21 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHNSTDY 2130</td>
<td>The Native American Experience</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 2230</td>
<td>Black Experience in the U.S.</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3400</td>
<td>History of Chicano Peoples in the U.S.</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 2730</td>
<td>Ethnic Art in the United States</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 2830</td>
<td>Ethnicity, Race and Crime</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 2930</td>
<td>Minority Women Writers of the U.S.</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3230</td>
<td>Human Relations</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3240</td>
<td>African-American History: 1619 to Present</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3340</td>
<td>Management, Gender and Race</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3630</td>
<td>Ethnic and Gender Equity in Education</td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3720</td>
<td>Ethnic Rights and Politics</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 3830</td>
<td>Black Women and Feminism in the U.S.</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
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 for a career track (except in education) but prepares the student 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 but also for 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 will have the following abilities and competencies:

- effectively communicate orally and in writing, ideally also in a second language
- interpret and evaluate information from a variety of sources
- make complex intellectual connections across disciplines, cultures and institutions
- transform information into knowledge and knowledge into judgment and action
- demonstrate intellectual agility and the ability to manage change
- discern the ethical consequences of decisions and actions
- acquire a deep understanding of one's self and respect for the complex identities of others, including diverse histories and cultures
- actively participate as citizens in a complex democracy and globalized world
English

www.uwplatt.edu/english

Department Chair: Kory Wein
Office: 320 Warner Hall
Phone: 608.342.1925
E-mail: weink@uwplatt.edu

Professors:
Teresa Burns
Dennis Ciesielski
Kathleen Tigerman
Laura Wendorff

Associate Professors:
Martha Drummond
Peter Hadorn
Stormy Stipe
Kory Wein

Assistant Professors:
Laura Beadling
Kara Candito
J. Keith Hale
Yuanyuan Hu
Amy Parsons
Justin Ponder
Amanda Tucker

Lecturers:
Andrea Cool
Mary Pat Dalles
Dawn Freese
Richard Garrett
David Gillotta
Gary Kriewald
Harry Kronick
Colin Lessig
Wendy Perkins
Stephen Shepherd
John Soley

Academic Department Associate:
Lois Blackbourn

Teaching English to Speakers of Other Languages
This TESOL program provides students with the professional knowledge and skills necessary to teach English to speakers of other languages in the United States or abroad. The program offers three tracks to accommodate students with differing educational needs: 1) a TESOL licensure minor; 2) a TESOL minor and 3) a TESOL certificate.

Creative Writing Minor (24 credits)
This versatile minor focuses on the development of literary writing skills particularly in poetry, short story, nonfiction and other professional genres.

Writing Certificate (18 credits)
Designed for students who want a general education in English studies and writing but do not wish to major or minor in English.

Mission Statement
All English majors and minors are designed to prepare students for careers in a variety of professional environments, in which creativity, critical thinking and a broad cultural perspective are required, but especially in those fields that require writing and teaching. English courses teach proficiency in literary analysis, professional and creative writing, cultural analysis and creation, and the mastery of rhetorical devices.

The basic pre-professional objective of the non-teaching English majors is twofold:

1. To provide graduates with a solid preparation for graduate studies (e.g., master’s degree in education, Master of Fine Arts, master’s in professional writing/communication, literature, library science, rhetoric and composition, as well as pre-law)
2. 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 professional environments, in which creative writing but do not wish to major or minor in English.

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

About the English Program and Major
The English program allows students the flexibility to choose from the following three English majors and five minors according to individual preference and career choices. Students may also obtain a writing certificate and a Teaching English to Speakers of Other Languages certificate.

Literature Major (36 credits)
This traditional English major prepares the student for careers and graduate work in English, law, publishing, library science, government, business and other professions.

English Education Major (36 credits)
In cooperation with the School of Education, this traditional English major prepares students for middle/secondary education careers (early adolescence through adolescence, ages 10-21).

Professional Writing Major (36 credits)
This major prepares students for careers in a variety of writing fields, including technical and scientific communication, business communication, editing and publishing, journalism and public relations.

English Non-Teaching Minor (24 credits)
This minor is designed for students who seek expertise in literature and writing for a variety of purposes and career options as a complement to their major in another program.

English Education Minor (24 credits)
This minor is designed for students seeking middle/secondary education certification. It complements other teaching majors and qualifies the student to teach another subject.
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
E-mail: 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 PHILSPHY 1130 Introduction to Philosophy or PHILSPHY 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)

English literature 2130, 2230 or 2330  3 cr
American literature 2430 or 2530  3 cr
World literature 2640 or 2650  3 cr
One more course from the above survey courses  3 cr
One course in English literature besides Shakespeare at the 3000 or 4000 level  3 cr
One course in American literature at the 3000 or 4000 level  3 cr
ENGLISH 3050 Introduction to Contemporary Literature  3 cr
ENGLISH 4330 Shakespeare  3 cr
Literature courses at the 3000 level or above  6 cr

At least one of the above courses other than Shakespeare must focus on literature before 1800.

ENGLISH 4020 History and Theory of Rhetoric  3 cr
or
ENGLISH 4620 History of the English Language  3 cr
Writing courses at the 2000 level or above  3 cr

Students must earn a “C” or better in these courses.

English Education Major (36 credits)

English literature course  3 cr
American literature course  3 cr
World literature course  3 cr
Other/additional literature courses  6 cr

(At least three of the above literature courses must be at the 3000 level or above.)

Creative writing course  3 cr
(ENGLISH 2120, ENGLISH 3120, ENGLISH 3140)
Professional writing course  3 cr
(ENGLISH 3000, ENGLISH 3240, ENGLISH 3360)
ENGLISH 3030 The Teaching of Composition  3 cr
(Pre or corequisite for ENGLISH 4730)
ENGLISH 3930 Literature for Young Adults  3 cr
(Pre or corequisite for ENGLISH 4730)
ENGLISH 3940 Grammar in Context  3 cr
ENGLISH 4330 Shakespeare  3 cr
ENGLISH 4620 History of the English Language  3 cr

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

Required Courses for the School of Education (6 credits)

ENGLISH 4730 Teaching English in Middle and Secondary Schools  3 cr

(Pre or corequisites: ENGLISH 3030 and ENGLISH 3930)
Counts for total graduation credits, but does not count towards an English major

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)

English literature 2130, 2230 or 2330  3 cr
American literature 2430 or 2530  3 cr
Electives in literature at the 3000 level or above  6 cr
ENGLISH 4680 Writing Internship  3 cr minimum
(Students may do more than one internship for 1-8 credits)

Required Courses (21 credits, 12 from English):

ENGLISH 2120 Creative Writing  3 cr
ENGLISH 3000 Technical Writing  3 cr
ENGLISH 3120 Seminar in Creative Writing  3 cr
ENGLISH 3140 Poetry 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 4620 History of the English Language  3 cr
ENGLISH 3990 Topics in Language, Literature or Writing (writing topics only)  3 cr

COMMNCTN 2030 Basic Newswriting and Reporting  3 cr
COMMNCTN 2110 Applied Communication (repeatable)  1 cr
COMMNCTN 3120 Applied Communication (repeatable)  2 cr
COMMNCTN 3830 Editing for Print  3 cr

Students must earn a grade of “C” or better in these courses.

English Non-Teaching Minor (24 credits)

American literature course  3 cr
World literature course  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

Requirements courses at the 2000 level or above 6 cr

Creative Writing Minor (24 credits)

**Required Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 2120</td>
<td>Creative Writing*</td>
<td>3-6 cr</td>
</tr>
<tr>
<td>ENGLISH 3120</td>
<td>Seminar in Creative Writing*</td>
<td>3-6 cr</td>
</tr>
<tr>
<td>ENGLISH 3140</td>
<td>Poetry Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3360</td>
<td>Magazine Writing and Editing*</td>
<td>3-6 cr</td>
</tr>
</tbody>
</table>

**Required Literature Courses (6 credits, 3 credits from this list):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 2730</td>
<td>Contemporary Literature 3 cr</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 3810</td>
<td>The Modern Short Story 3 cr</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 3820</td>
<td>Modern Poetry 3 cr</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 3530</td>
<td>Modern American Drama 3 cr</td>
<td></td>
</tr>
</tbody>
</table>

* May be repeated for credit

Students who take fewer than 24 credits from the above list may complete the minor by selecting up to six credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 3000</td>
<td>Technical Writing*</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3240</td>
<td>Advanced Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3940</td>
<td>Grammar in Context</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 4680</td>
<td>Writing Internship</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 2110</td>
<td>Applied Communication*</td>
<td>1 cr</td>
</tr>
<tr>
<td>COMMNCTN 3120</td>
<td>Applied Communication*</td>
<td>2 cr</td>
</tr>
<tr>
<td>COMMNCTN 2030</td>
<td>Basic Newswriting and Reporting</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 3830</td>
<td>Editing for Print</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

* May be accepted with permission of the department chair

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 Code</th>
<th>Course 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>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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 (15 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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>ENGLISH 4670</td>
<td>Methods of Teaching English as a Second Language</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 4740</td>
<td>Practicum in Teaching English as a Second Language</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

## Elective Course (3 credits)

Select one course from one area below:

### Humanities

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

### Ethnic Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHNSTDY 3410</td>
<td>Chicano Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Cross offering: ENGLISH 3410)</td>
<td></td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3730</td>
<td>Black Literature in America</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Cross offering: ENGLISH 3730)</td>
<td></td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3740</td>
<td>Asian American Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Cross offering: ENGLISH 3740)</td>
<td></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>(Cross offering: ENGLISH 3750)</td>
<td></td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3760</td>
<td>Wisconsin Indian Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Cross offering: ENGLISH 3760)</td>
<td></td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3010</td>
<td>Race, Gender and US Labor History</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Cross offering: HISTORY 3010)</td>
<td></td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3630</td>
<td>Ethnic and Gender Equity in Education</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Cross offering: TEACHING 3630, WOMSTD 3630)</td>
<td></td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3720</td>
<td>Ethnic Rights and Politics</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Cross offering: POLISCI 3730)</td>
<td></td>
<td>3 cr</td>
</tr>
</tbody>
</table>

### International Education

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 3830</td>
<td>The World Novel</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3850</td>
<td>Postcolonial Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3030</td>
<td>International Relations</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3720</td>
<td>Politics of the Global Economy</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

## Writing Certificate (18 credits)

### Required Courses (18 credits, 12 from English):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 2120</td>
<td>Creative Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3000</td>
<td>Technical Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3120</td>
<td>Topics in Creative Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3240</td>
<td>Advanced Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3360</td>
<td>Magazine Writing and Editing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3940</td>
<td>Grammar in Context</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3990</td>
<td>Topics in Language, Literature or Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>(writing topics courses only)</td>
<td></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 Code</th>
<th>Course 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>
<td>3 cr</td>
</tr>
</tbody>
</table>

### Elective Course (3 credits)

Select one course from one area below:

### Humanities

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

### Ethnic Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHNSTDY 3410</td>
<td>Chicano Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Cross offering: ENGLISH 3410)</td>
<td></td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3730</td>
<td>Black Literature in America</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Cross offering: ENGLISH 3730)</td>
<td></td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3740</td>
<td>Asian American Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Cross offering: ENGLISH 3740)</td>
<td></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>(Cross offering: ENGLISH 3750)</td>
<td></td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3760</td>
<td>Wisconsin Indian Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Cross offering: ENGLISH 3760)</td>
<td></td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3010</td>
<td>Race, Gender and US Labor History</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Cross offering: HISTORY 3010)</td>
<td></td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3630</td>
<td>Ethnic and Gender Equity in Education</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Cross offering: TEACHING 3630, WOMSTD 3630)</td>
<td></td>
<td>3 cr</td>
</tr>
<tr>
<td>ETHNSTDY 3720</td>
<td>Ethnic Rights and Politics</td>
<td>3 cr</td>
</tr>
<tr>
<td>(Cross offering: POLISCI 3730)</td>
<td></td>
<td>3 cr</td>
</tr>
</tbody>
</table>

### International Education

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 3830</td>
<td>The World Novel</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3850</td>
<td>Postcolonial Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3030</td>
<td>International Relations</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3720</td>
<td>Politics of the Global Economy</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

### Prereqs/coreqs: P: ENGLISH 1130 and ENGLISH 1230

137
Mission

1. Serve well the general education mission of the university in the areas of foreign language competencies and the humanities.
2. Prepare students via language skills and cultural exposure for professions in business, law enforcement, communications, counseling, translation and other fields.
3. Prepare highly qualified foreign language teachers in conjunction with the Wisconsin Department of Public Instruction and the UW-Platteville School of Education through our teaching-minor and teaching-major programs. Students must also attain a level of mastery in the areas of teaching methods and knowledge of theories of second language acquisition.

Goals and Objectives

Goal 1: Proficient Oral Communication Skills
- Student learning outcome 1: Student will demonstrate minimum oral proficiency at a level equivalent to intermediate high on the ACTFL proficiency scale or student will be able to discuss a wide range of general interest topics in most informal and some formal situations.
- Student learning outcome 2: Student will be able to be understood without difficulty by speakers unaccustomed to non-native speakers.

Goal 2: Proficient Written Communication Skills
- Student learning outcome 3: Student will demonstrate knowledge and skills in effective written presentation in informal and formal styles at a level roughly equal to the student's oral proficiency.
- Student learning outcome 4: Student will be able to read and understand a variety of authentic written materials.

Goal 3: Knowledge of Cultural Practices and Perspectives
- Student learning outcome 5: Student will complete a period of language immersion in residence in a country in which the target language is spoken.
- Student learning outcome 6: Student will be able to discuss the historical, geographical, political, socioeconomical, literary and artistic features of a variety of regions and countries in which the target language is spoken.

Goal 4: Preparation of Highly Qualified Foreign Language teachers in conjunction with the UW-Platteville School of Education
- Student learning outcome 7: Student will meet DPI requirements for certification as a foreign language teacher.
- Student learning outcome 8: Student will attain a level of mastery in the areas of teaching methods and knowledge of theories of second language acquisition.

Foreign Language Competency/Retroactive Credits

All students are required to demonstrate competency in a foreign language. The competency consists of the following: one year (two semesters) of one foreign language at the 1000 college level or two years (four semesters) of a foreign language in high school with a grade of “C” or higher in the second year of high-school foreign language study. Foreign languages other than the languages taught at UW-Platteville may satisfy this competency.

Students may receive retroactive college credit for their high school foreign language studies. Proficiency acquired in high school may be counted toward graduation and toward the number of credits in the major or minor. Students ordinarily earn a maximum of eight retroactive credits. However, students with high proficiency may earn more retroactive credit as determined by the department.

In order to earn retroactive credit, a student must enroll in a second semester course or higher, and must earn a grade of “A” or “B” in that course. In addition to credit for the course completed, a student may then earn between four and 16 retroactive credits for the course or courses skipped at the 1000 or 2000 levels.

Credits in Residence

Minimum number of credits in language major or minor required in residence on the UW-Platteville campus.
All students completing a major or a minor in any language through UW-Platteville must take at least half of the upper-level credits required for that major or minor in residence on the UW-Platteville campus as follows:

- minimum of 10 upper-level language credits in residence for that major
- minimum of 12 upper-level language credits in residence for the education major
- minimum of four upper-level language credits in residence for the minor
- minimum of six upper-level language credits in residence for the education minor

Coursework taken at any institution other than UW-Platteville will not be counted toward this requirement.

**General Requirements**

**Bachelor of Arts Degree in German and Spanish**

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

Non-teaching German and Spanish majors, in addition to the requirements for the major, are also required to take nine credits of English literature and philosophy with no more than two courses from one of the above areas. Students may select any philosophy or English literature course at the 2000 level or higher.

Students who major in a foreign language are required to take eight or nine credits in our Education Abroad program at the 3000-4000 level. Similar or comparable cultural experiences could also be accepted.

**Bachelor of Arts Degree in Teaching German and Spanish**

*(available for education majors only)*

*Total for graduation* ............................................................. 120 credits
*General education* ............................................................. 44-58 credits
*Major studies* ................................................................. 40 credits
*(foreign-language education majors)*

In addition to the credits required for German and Spanish majors in education, there is also a requirement for one philosophy course (PHLSPHY 1130 Introduction to Philosophy or PHLSPHY 2530 Ethics).

Students who major in a foreign language are required to take eight or nine credits in our Education Abroad program at the 3000-4000 level. Similar or comparable cultural experiences could also be accepted.

**A 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 must satisfy the language immersion requirement by enrolling in FRENCH 3000 Foreign Language Travel Abroad Seminar for at least two credits. See the French instructor for details. French minors must have a G.P.A. of no lower than a 2.75 in French courses.

**Required:**

- Non-teaching minors 8 cr of 3000 and above
- Teaching minors 12 cr of 3000 and above

**Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH</td>
<td>Elementary French (or equivalent)</td>
<td>4 cr</td>
</tr>
<tr>
<td>FRENCH</td>
<td>Elementary French (or equivalent)</td>
<td>4 cr</td>
</tr>
<tr>
<td>FRENCH</td>
<td>Intermediate French (or equivalent)</td>
<td>4 cr</td>
</tr>
<tr>
<td>FRENCH</td>
<td>Intermediate French (or equivalent)</td>
<td>4 cr</td>
</tr>
<tr>
<td>FRENCH</td>
<td>Foreign Language Travel Abroad Seminar 1-4 cr</td>
<td>4 cr</td>
</tr>
<tr>
<td>FRENCH</td>
<td>Advanced French Grammar and Composition 2 cr</td>
<td>2 cr</td>
</tr>
<tr>
<td>FRENCH</td>
<td>Advanced French Conversation</td>
<td>2 cr</td>
</tr>
<tr>
<td>FRENCH</td>
<td>Topics in French Literature and Culture 1-3 cr</td>
<td>3 cr</td>
</tr>
<tr>
<td>FRENCH</td>
<td>Supervised Independent Study</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>FRENCH</td>
<td>Survey of French Literature and Culture I  3 cr</td>
<td>3 cr</td>
</tr>
<tr>
<td>FRENCH</td>
<td>Survey of French Literature and Culture II</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Required School of Education Course:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING</td>
<td>Teaching World Languages: Theory and Practice</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
**German**

**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 must 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:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERMAN 1240</td>
<td>Elementary German</td>
<td>4 cr</td>
</tr>
<tr>
<td>GERMAN 1340</td>
<td>Elementary German</td>
<td>4 cr</td>
</tr>
<tr>
<td>GERMAN 2240</td>
<td>Intermediate German</td>
<td>4 cr</td>
</tr>
<tr>
<td>GERMAN 2340</td>
<td>Intermediate German</td>
<td>4 cr</td>
</tr>
<tr>
<td>GERMAN 3000</td>
<td>Foreign Language Travel Abroad Seminar</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>GERMAN 3220</td>
<td>German Conversation and Composition I</td>
<td>2 cr</td>
</tr>
<tr>
<td>GERMAN 3320</td>
<td>German Conversation and Composition II</td>
<td>2 cr</td>
</tr>
<tr>
<td>GERMAN 3330</td>
<td>German Literature of the 20th Century</td>
<td>3 cr</td>
</tr>
<tr>
<td>GERMAN 3430</td>
<td>German Literature of the 19th Century</td>
<td>3 cr</td>
</tr>
<tr>
<td>GERMAN 3530</td>
<td>German Civilization</td>
<td>3 cr</td>
</tr>
<tr>
<td>GERMAN 4220</td>
<td>Phonetics</td>
<td>2 cr</td>
</tr>
<tr>
<td>GERMAN 4230</td>
<td>German Literature to 1750</td>
<td>3 cr</td>
</tr>
<tr>
<td>GERMAN 4250</td>
<td>Supervised Independent Study</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>GERMAN 4330</td>
<td>German Literature since 1750</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Required School of Education Course:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING 4060</td>
<td>Teaching World Languages: Theory and Practice</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Spanish**

**Spanish Major (36 credits)**

The major requires a total of 36 credits with a minimum of 20 credits selected from courses numbered 3000 or higher, including courses in SPANISH 4820 Phonetics and SPANISH 3830 Spanish 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).

**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 PHLSPHY 1130 Introduction to Philosophy or PHLSPHY 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 must 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
  (Teaching minors must take at least two credits for purpose of immersion)
- SPANISH 3820 Spanish Conversation and Composition I 2 cr
- SPANISH 3830 Spanish Civilization 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 II 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 3 cr
  (credit does not count toward major or minor)

About the Philosophy Program and Major

Philosophy literally means the “love of wisdom.” As a discipline of the mind, it calls us to think critically about the most fundamental questions of life. What does it mean to be human? How are we humans related to the rest of reality? What constitutes reality? Is the universe friendly or indifferent to human purpose? To what extent are we free or not free? What purposes ought we to pursue? What is good and evil? What are the possibilities and limitations of human power and understanding? By what criteria can such questions be addressed? What constitutes knowledge? Are there different ways of knowing? What role do assumptions play in what we think is true? By challenging students to think carefully about questions like these, the philosophy program provides an excellent foundation for graduate school as well as a pathway not only to making a life but also to making a living in careers such as law, teaching, business, the ministry, journalism and art.

UW-Platteville offers a major in philosophy and a minor in philosophy. Both options encourage students to address in a disciplined way the most fundamental questions of life.

Mission Statement

With regard to our mission, the philosophy program has two main goals:

The first goal is to help students in their courses, but especially our philosophy majors and minors, to become what UW-Platteville pledges in the first item of its mission statement, namely, “to become broader in perspective, more literate, intellectually more astute, ethically more sensitive, and to participate wisely in society as a competent professional and knowledgeable citizen.”

The second goal is to provide our majors and minors the opportunity to develop in-depth their ability to think critically about the most fundamental (and inescapable) questions that humans can raise about reality, knowledge and values. As a corollary to this second goal, we aim to give our majors and minors a solid preparation for whatever they pursue after graduation, whether it be graduate studies, law school, medicine, education, academic computing, journalism, social work, ministry, a fine art or business.
Student Learning Outcomes

Students who major or minor in philosophy will:

1. acquire a broad understanding of the history of Western philosophy
2. become more ethically sensitive through the careful study of various ethical theories
3. enhance their ability to analyze and clarify ideas
4. refine their ability to think logically
5. demonstrate their ability to present their ideas and arguments effectively, both orally and in writing

General Requirements

Bachelor of Arts Degree

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

Philosophy majors, in addition to the requirements for the major, are also required to take one of the following foreign language courses: French 2140, German 2340 or Spanish 2940. Majors in philosophy are also required to take two English literature courses at the 2000 level or above.

Philosophy Major (36 credits)

The major requires a minimum of 36 credits, including PHLSPHY 1130 Introduction to Philosophy or PHLSPHY 2230 Contemporary Worldviews, PHLSPHY 2330 Origins of Western Philosophy, PHLSPHY 2430 Philosophy in the Modern World, PHLSPHY 2630 Logic, four 3000-level seminars and two 4000-level seminars. Religious studies courses and PHLSPHY 4330 Philosophy of Education may not be taken for credit toward a major in philosophy.

Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHLSPHY 1130</td>
<td>Introduction to Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2130</td>
<td>Peace Studies: Issues, Ideas and Morality of Nuclear War</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2230</td>
<td>Contemporary Worldviews</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2330</td>
<td>Origins of Western Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2430</td>
<td>Philosophy in the Modern World</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2530</td>
<td>Ethics</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2630</td>
<td>Logic</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 3130</td>
<td>Philosophy of History</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 3230</td>
<td>Philosophy of Religion</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 3330</td>
<td>Ontology and Ethics</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 3430</td>
<td>Social Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 3530</td>
<td>Philosophy’s Feminist Future: From Powerism to Personalism</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 3630</td>
<td>Philosophy of Law</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 4430</td>
<td>Seminar in Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 4660</td>
<td>Cooperative Field Experience</td>
<td>1-8 cr</td>
</tr>
<tr>
<td>PHLSPHY 4720</td>
<td>Individual Research in Philosophy</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

Philosophy Minor (24 credits)

The minor requires a minimum of 24 credits, including the same courses and restrictions as the major except that only two 3000-level seminars and one 4000-level seminar are required.

The minor requires a minimum of 24 credits, including the same courses and restrictions as the major except that only two 3000-level seminars and one 4000-level seminar are required.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHLSPHY 1130</td>
<td>Introduction to Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2230</td>
<td>Contemporary Worldviews</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2330</td>
<td>Origins of Western Philosophy</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2430</td>
<td>Philosophy in the Modern World</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY 2630</td>
<td>Logic</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Two 3000-level seminars and one 4000-level seminar
Department of Performing and Visual Arts  
www.uwplatt.edu/finearts

Department Chair:  G. Daniel Fairchild  
Office:  180 Doudna Hall  
Phone:  608.342.1143  
E-mail:  fairchig@uwplatt.edu

Academic Department Associate:  
Jane Kuhl

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

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)

<table>
<thead>
<tr>
<th>ART</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART</td>
<td>1010 Drawing I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>2310 Drawing II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>1410 Painting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>2410 Painting II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>1420 Basic Design I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>1520 Basic Design II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>2140 Art History I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>2210 Art History II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>4230 Theory of Art</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>2240 Illustration I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>2330 Illustration II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>2710 Graphic Design I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>2740 Graphic Design II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>3910 Graphic Design III</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>4030 Graphic Design IV</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>3740 Graphic Design V</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>4950 Senior Show</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

Electives: 6 ART credits

Graph Design Emphasis (49 credits)

<table>
<thead>
<tr>
<th>ART</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART</td>
<td>1010 Drawing I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>2310 Drawing II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>1410 Painting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>2410 Painting II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>1420 Basic Design I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>1520 Basic Design II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>2140 Art History I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>2210 Art History II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>4230 Theory of Art</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>4930 Presentation and Marketing</td>
<td>2 cr</td>
</tr>
<tr>
<td>ART</td>
<td>4950 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

Concentrations (choose one):

New Media Concentration
COMMNCTN 2090 Principles of Interactivity 3 cr
COMMNCTN 3030 Multimedia Projects 3 cr

Photography Concentration
COMMNCTN 3500 Photography II 3 cr
COMMNCTN 4500 Photography III 3 cr
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>
</tr>
<tr>
<td>or ART 3340</td>
<td>Art History III</td>
<td>3 cr</td>
</tr>
<tr>
<td>or ART 3530</td>
<td>Art History V</td>
<td>3 cr</td>
</tr>
<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/Middle School Methods</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 4630</td>
<td>Art Education II: Middle/High School Methods</td>
<td>3 cr</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>
</tr>
</tbody>
</table>

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>
<td>Drawing 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>
</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>
</tr>
</thead>
<tbody>
<tr>
<td>Drawing I</td>
<td>3 cr</td>
</tr>
<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>
<td></td>
</tr>
</tbody>
</table>

Year 1 - Second Semester:

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

Suggested second year core for fine art emphasis:

Year 2 - First Semester:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</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>
<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>Sophomore portfolio review</td>
<td></td>
</tr>
<tr>
<td>General requirements</td>
<td></td>
</tr>
</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: G. Daniel Fairchild
Office: 180 Doudna Hall
Phone: 608.342.1143
E-mail: fairchig@uwplatt.edu

Professors: Robert K. Demaree, Barry L. Ellis, G. Daniel Fairchild
Associate Professor: Eugene Alcalay
Assistant Professors: David Cooper, Michael Forbes
Lecturers: Paul Brenner, Allen Cordingley, Margaret Cornils Luke, Susan Savage Day, Rebekah Demaree, Nancy Fairchild, Matthew Gregg, Stephanie Klockow, Keith Lienert, John Marco, Kevin Price, Bradley Townsend

About the Music Program and Major
The UW-Platteville Department of Performing and Visual Arts Music Program is designed to promote performance of music, the study of musical structure and form and knowledge of the history of music as well as the teaching of music. As one of the principal fine arts, music is the art that most deals with emotion and the one that directly communicates to the listener. Performance opportunities exist that help provide a rich cultural life for the campus, community and region.

Programs of music study leading to a Bachelor of Science or a Bachelor of Arts degree with and without music education certification are offered in the College of Liberal Arts and Education. Students who plan to teach at the elementary, middle school or secondary level may choose instrumental, choral, general music or combined certification programs (see advisors in the music unit of the department of performing and visual arts). Other degree emphases are available in instrumental music, vocal music, and music and business.

Music education majors complete the College of LAE general requirements, the School of Education proficiency requirements, the basic core curriculum for music majors and depth courses in music.

All students intending to become licensed teachers must satisfy the requirements outlined in the teacher licensure section listed under School of Education.

The UW-Platteville Department of Performing and Visual Arts/Music is an accredited institutional member of the National Association of Schools of Music.

A degree in music may lead to a career in traditional areas such as teaching, performing, composing and arranging, or to a career involving business, computers and recording technology.

The music unit at UW-Platteville is designed to provide many musical experiences and training. Close contact with faculty and modern facilities such as acoustically designed concert rehearsal and concert halls in the Center for the Arts are important features at UW-Platteville.

The music unit of the UW-Platteville Department of Performing and Visual Arts serves the student body and region as a cultural resource by providing general courses for all students, and specialized courses leading to those occupations requiring musical expertise. Recognizing that culturally aesthetic enrichment is a vital part of university life, a goal of the music unit is to provide high quality instructional experiences through performances by guest and faculty artists and student performing organizations.

Students of all academic disciplines are encouraged to participate in a music organization.

General Requirements
Bachelor of Science Degree
Total for graduation ............................................. 120 credits
General education .............................................. 44-58 credits
Music courses .................................................... 56-72 credits
Professional education courses (music majors only) ...... 28 credits

Bachelor of Arts Degree
Students who wish to receive a Bachelor of Arts instead of a Bachelor of Science must:
1. Declare their intention of doing so
2. Meet the requirements for a B.S.
3. Demonstrate fourth semester proficiency in a foreign language

Note: There is no B.A. in music education.

Mission Statement
Bachelor of Science in Music Education
The music program at UW-Platteville is dedicated to high quality instruction in curricula emphasizing music theory, history and performance. The Bachelor of Science in music education curriculum is constructed to provide students with the fundamental background and specialized knowledge needed for analysis, understanding, performance and teaching of music. We seek to assist in preparing students with the knowledge and skills to be successful music educators.

Goals for Program Graduates
1. Develop conceptual understanding of music theory and music history, as these areas of music study form the basis for listening, composing and performing
2. Develop competence in music performance
3. Demonstrate potential to effectively communicate knowledge about music and music making to elementary, middle level and secondary school students
4. Learn how to make informed decisions about appropriate curricula for elementary, middle level and secondary school students
Music Education Majors

Students must take the core courses listed below and an area of emphasis.

**Music Education Core Courses (59 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 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 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>
<tr>
<td>MUSIC 3350</td>
<td>History and Literature of Western Music IV</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3530</td>
<td>Orchestration and Arranging</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3630</td>
<td>Aural Skills IV</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 3730</td>
<td>Music Theory IV - Form and Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 3830</td>
<td>Music Theory V - 20th Century</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3920</td>
<td>Intermediate Conducting</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 4290</td>
<td>Media, MIDI and Recording Technology</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 4320</td>
<td>Advanced Conducting - Instrument</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUAP</td>
<td>Applied Instrument or Voice</td>
<td>6 cr</td>
</tr>
<tr>
<td>MUAP</td>
<td>Recital Semester</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

*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):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 2770</td>
<td>Diction I</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2870</td>
<td>Diction II</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 3160</td>
<td>Elementary Music Methods for Non-Music Majors</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 3460</td>
<td>Choral Music Methods I</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3560</td>
<td>Choral Music Methods II</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 4320</td>
<td>Advanced Conducting - Choral</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

**General Music Education Emphasis—B-21 (66 credits)**

**Includes Music Education Core Courses (59 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 3860</td>
<td>Elementary Music Methods (for majors)</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 3760</td>
<td>Secondary General Music Methods</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUAP</td>
<td>Applied Voice</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

**Instrumental Music Education Emphasis—B-21 (73 credits)**

**Includes Music Education Core Courses (59 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 2170</td>
<td>High Brass Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2270</td>
<td>Low Brass Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2370</td>
<td>Percussion Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2470</td>
<td>String Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2570</td>
<td>High Woodwind Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2670</td>
<td>Double Reed Woodwind Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 3260</td>
<td>Instrumental Music Methods I</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3360</td>
<td>Instrumental Music Methods II</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3660</td>
<td>Jazz Techniques</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 4230</td>
<td>Advanced Conducting - Instrument</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

Pianists may substitute MUSIC 3440 Accompanying 1 cr in the performing group requirements.

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

**Bachelor of Arts in Music**

**Mission Statement**

The music program at UW-Platteville is dedicated to high quality instruction in curricula emphasizing music theory, history and performance. The Bachelor of Arts in music (non-teaching) curriculum is constructed to provide students with the fundamental background and specialized knowledge needed for analysis, understanding, performance and teaching of music. The program provides the broad knowledge in music to prepare students for graduate study in music.

**Goals for Program Graduates**

1. Develop conceptual understanding of music theory and music history, as these areas of music study form the basis for listening, composing and performing

2. Develop competence in music performance
Music Non-Teaching Majors
Students must take the core courses listed below and an area of emphasis.

### Non-Teaching Core Courses (53 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</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</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 1730</td>
<td>Music Theory I - Music Theory Fundamentals w/MIDI</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 1830</td>
<td>Music Theory II - Tonal Music Theory w/MIDI</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 1530</td>
<td>Aural Skills I</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 1630</td>
<td>Aural Skills II</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2730</td>
<td>Music Theory III - Advanced Tonal Theory, Counterpoint, and Composition</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 3730</td>
<td>Music Theory IV - Form and Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 2530</td>
<td>Aural Skills III</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 3630</td>
<td>Aural Skills IV</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 3830</td>
<td>Music Theory V - 20th Century Music Theory</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 2450</td>
<td>World Music Survey</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 2250</td>
<td>History and Literature of Western Music I</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 2350</td>
<td>History and Literature of Western Music II</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3250</td>
<td>History and Literature of Western Music III</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3350</td>
<td>History and Literature of Western Music IV</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 2920</td>
<td>Beginning Conducting</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 4290</td>
<td>Music Media, MIDI and Recording Technology</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 1XX0</td>
<td>Performing Organizations (Major Ensemble)</td>
<td>8 cr</td>
</tr>
<tr>
<td>MUSIC 3440</td>
<td>Accompanying (2 semesters)</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUAP</td>
<td>Applied Instrument or Voice</td>
<td>7 cr</td>
</tr>
<tr>
<td>MUAP</td>
<td>Recitals Semester</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

### Electives (5 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 2170</td>
<td>High Brass Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2270</td>
<td>Low Brass Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2370</td>
<td>Percussion Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2470</td>
<td>String Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2570</td>
<td>High Woodwind Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2670</td>
<td>Double Reed Woodwind Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 3170</td>
<td>String Pedagogy</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3430</td>
<td>Jazz Improvisation and Theory</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 3530</td>
<td>Orchestration and Arranging</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3920</td>
<td>Intermediate Conducting</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 4230</td>
<td>Advanced Conducting - Instrumental</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3280</td>
<td>Wind Literature</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Performing Organization</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUAP</td>
<td>Applied Lessons (1 extra semester)</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

### Vocal Music Emphasis (64 credits)

#### Non-Teaching Core Courses (53 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 2770</td>
<td>Diction I</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2870</td>
<td>Diction II</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 1340</td>
<td>Piano Techniques 1st Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 1440</td>
<td>Piano Techniques 2nd Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2340</td>
<td>Piano Techniques 3rd Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2440</td>
<td>Piano Techniques 4th Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td></td>
<td>Music electives</td>
<td>5 cr</td>
</tr>
</tbody>
</table>

#### Electives (5 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 2020</td>
<td>Music Theatre</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 3270</td>
<td>Vocal Pedagogy</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3430</td>
<td>Jazz Improvisation and Theory</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 3530</td>
<td>Orchestration and Arranging</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3920</td>
<td>Intermediate Conducting</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 4320</td>
<td>Advanced Conducting - Choral</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3380</td>
<td>Choral Literature</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 1XX0</td>
<td>Performing Organization</td>
<td>1 cr</td>
</tr>
<tr>
<td></td>
<td>(1 extra organization)</td>
<td></td>
</tr>
<tr>
<td>MUAP</td>
<td>Applied Voice (1 extra semester)</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

### Piano Emphasis (65 credits)

#### Non-Teaching Core Courses (53 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 3440</td>
<td>Accompanying (2 semesters)</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3370</td>
<td>Piano Pedagogy</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUAP</td>
<td>Second instrument or voice applied lessons</td>
<td>4 cr</td>
</tr>
<tr>
<td></td>
<td>Music Electives</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

#### Electives (5 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 3430</td>
<td>Jazz Improvisation and Theory</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 3530</td>
<td>Orchestration and Arranging</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3920</td>
<td>Intermediate Conducting</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 1XX0</td>
<td>Performing Organization</td>
<td>1 cr</td>
</tr>
<tr>
<td></td>
<td>(1 extra organization)</td>
<td></td>
</tr>
<tr>
<td>MUAP</td>
<td>Applied Lessons (1 extra semester)</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

### Instrumental Music Emphasis (62 credits)

#### Non-Teaching Core Courses (53 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 1340</td>
<td>Piano Techniques 1st Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 1440</td>
<td>Piano Techniques 2nd Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2340</td>
<td>Piano Techniques 3rd Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2440</td>
<td>Piano Techniques 4th Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td></td>
<td>Music electives</td>
<td>5 cr</td>
</tr>
</tbody>
</table>

#### Electives (5 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 2170</td>
<td>High Brass Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2270</td>
<td>Low Brass Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2370</td>
<td>Percussion Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2470</td>
<td>String Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2570</td>
<td>High Woodwind Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2670</td>
<td>Double Reed Woodwind Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 3170</td>
<td>String Pedagogy</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3430</td>
<td>Jazz Improvisation and Theory</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 3530</td>
<td>Orchestration and Arranging</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3920</td>
<td>Intermediate Conducting</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 4230</td>
<td>Advanced Conducting - Instrumental</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3280</td>
<td>Wind Literature</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Performing Organization</td>
<td>1 cr</td>
</tr>
<tr>
<td></td>
<td>(1 extra organization)</td>
<td></td>
</tr>
<tr>
<td>MUAP</td>
<td>Applied Lessons (1 extra semester)</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

### Music and Business Emphasis (80 credits)

#### Required Music Courses (56 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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 2730</td>
<td>Music Theory III - Advanced Tonal Theory, Counterpoint and Composition</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 3730</td>
<td>Music Theory IV - Form and Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 2530</td>
<td>Aural Skills III</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 3630</td>
<td>Aural Skills IV</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2250</td>
<td>History and Literature of Western Music I</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 2350</td>
<td>History and Literature of Western Music II</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3250</td>
<td>History and Literature of Western Music III</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3350</td>
<td>History and Literature of Western Music IV</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

### Electives (5 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 1XX0</td>
<td>Performing Organization</td>
<td>1 cr</td>
</tr>
<tr>
<td></td>
<td>(1 extra organization)</td>
<td></td>
</tr>
<tr>
<td>MUAP</td>
<td>Applied Lessons (1 extra semester)</td>
<td>1 cr</td>
</tr>
</tbody>
</table>
Music Minor (26 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</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 1730</td>
<td>Music Theory I</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 1830</td>
<td>Music Theory Fundamentals 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 II</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>
</tr>
<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>
</tr>
<tr>
<td>MUAP</td>
<td>Applied Instrument or Voice</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

Electives (6 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 2170</td>
<td>High Brass Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2270</td>
<td>Low Brass Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2370</td>
<td>Percussion Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2470</td>
<td>String Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2570</td>
<td>High Woodwind Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2670</td>
<td>Double 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>
</tbody>
</table>

Required Business Courses (24 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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 1200</td>
<td>Introduction to American Business Enterprise</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 4990</td>
<td>Internship* (in a music related field)</td>
<td>1-8 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>Electives</td>
<td>4-11 cr</td>
</tr>
</tbody>
</table>

*Consult advisor to determine hours credited for internship

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>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUAP 1010</td>
<td>First semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUAP 1110</td>
<td>Second semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUAP 2010</td>
<td>Third semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUAP 2110</td>
<td>Fourth semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUAP 3010</td>
<td>Fifth semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUAP 3110</td>
<td>Sixth semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUAP 4010</td>
<td>Seventh semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUAP 4110</td>
<td>Eighth semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUAP 4910</td>
<td>Recital semester</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

Section A - Piano

Section B - Voice

Section C - Flute

Section D - Oboe

Section E - Clarinet

Section F - Saxophone

Section G - Bassoon

Section H - Trumpet

Section I - Horn

Section J - Trombone

Section K - Euphonium

Section L - Tuba

Section M - Violin

Section N - Viola

Section O - Cello

Section P - String Bass

Section Q - Percussion

Section R - Jazz String Bass

Section S - Jazz Piano

Section T - Jazz Trombone
Speech Communication

www.uwplatt.edu/finearts/speechmain.htm

Department Chair: G. Daniel Fairchild
Office: 180 Doudna Hall
Phone: 608.342.1143
E-mail: fairchig@uwplatt.edu

Professors:
Mittie J. Nimocks
George Smith

Assistant Professor:
Daniel Dahlquist

Lecturers:
Tiffany Boeke
Martin ChisloM
Catherine Gleason
Connie SaLoutos Furlan
Jeffery Tebbe

About the Program and Minor

The speech communication program offered by the UW-Platteville Department of Performing and Visual Arts is the study of human communication – people speaking and listening to one another. Speaking and listening are the most basic communication activities of our waking hours. The speech minor emphasizes communication as the foundation for all successful human activity.

The objective of the speech minor is to equip the graduate with the necessary skills, knowledge and attitude to speak with and listen to others effectively, whether one-on-one, in a group or part of a team.

A minor in speech is an excellent complement to most other majors on campus as well as to the pre-professional programs.

Improving oral communication skills through the study of speech will make graduates more valuable and effective professional assets to their employers, communities and nation.

Speech Communication Minor (24 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE</td>
<td>1430 Oral Interpretation of Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE</td>
<td>1930 Voice and Diction</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPEECH</td>
<td>2250 Communication and Leadership in Small Groups</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>3940 Grammar in Context</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPEECH</td>
<td>3010 Directed Studies in Forensics</td>
<td>1 cr</td>
</tr>
<tr>
<td>SPEECH</td>
<td>3250 Interpersonal Communication</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPEECH</td>
<td>3500 Persuasion and Argumentation</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPEECH</td>
<td>4500 Communication Theory</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Department of Public Instruction certification for teaching courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMNCTN 1630</td>
<td>Introduction to Mass Media</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPEECH</td>
<td>2010 Communication for Teachers</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>(required as a general education requirement instead of SPEECH 1010 Public Speaking)</td>
<td></td>
</tr>
<tr>
<td>SPEECH</td>
<td>3990 Teaching Methods in Speech Communication</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Theatre

www.uwplatt.edu/finearts/theatre/

Department Chair: G. Daniel Fairchild
Office: 180 Doudna Hall
Phone: 608.342.1143
E-mail: fairchig@uwplatt.edu

Assistant Professors:
Ann Dillon Farrell
David Schuler

Lecturers:
Brad Carlson
Catherine Gleason
Connie SaLoutos Furlan

About the Department and Major

Theatre is an ancient art form that has been included in academic study for thousands of years. Theatre provides an opportunity for the synthesis of multiple academic disciplines including dance, music, art, literature, psychology, history, philosophy, engineering and various technologies.

The UW-Platteville Department of Performing and Visual Arts Theatre degree is designed to serve students who will be pursuing a career in theatre performance, technical theatre, theatre education or continuing further study in the field at the graduate level.

The theatre program at UW-Platteville offers numerous hands-on learning opportunities. Students in the program have the opportunity to work both onstage and behind the scenes, learning every facet of the theatrical production process. Along with our student organizations, Pioneer Players and Musical Theatre, the UW-Platteville Theatre program produces a six-show season every year – 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 small class sizes not usually offered in larger programs. They are also given the opportunity to work on cutting edge and classical material, from the Greeks to the newest plays in the Broadway season.

Theatre is not just an artform, but it is also a business. It takes many different people with many different skill sets to produce theatre, which creates many varied employment opportunities. Some of the occupations associated with the theatre field include: accountants, actors, arts administrators, agents, artistic directors, board operators, booking associates, box office managers, business managers, buyers, casting directors, company managers, costume designers, costume builders, creative drama instructors, critics, development directors, directors, drama therapists, dramaturgs, electricians, film/cinema professionals, fine arts facilitators, garment cutters, house managers, librarians, lighting designers, lighting technicians, literary managers, lyricists, makeup specialists, managing directors, marketing directors, master electricians, milliners, music directors, painters, print makers, personal managers, playwrights, puppetry artists, producers, production managers, properties designers/managers, publicists, radio and television professionals, rental managers, riggers, scenic artists, set designers, stage combat instructors, stagehands, stage managers, stage movement specialists, stitchers, teachers, technical directors, tour managers, voice and diction specialists and wig designers.
All students intending to become licensed teachers must satisfy the requirements outlined in the teacher licensure section listed under School of Education in this catalog.

Program of study leads to a Bachelor of Arts degree.

General Requirements
Bachelor of Arts Degree

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

Students must demonstrate fourth-semester proficiency in a foreign language.

Students must have a cumulative grade point average of 2.50 within the major studies for graduation.

Mission Statement
Bachelor of Arts in Fine Arts – Theatre Emphasis

The theatre program at UW-Platteville is dedicated to high quality instruction in curricula emphasizing theatre history, stagecraft, literature, directing and acting. The curriculum is structured to provide students with the fundamental background and specialized knowledge needed for analysis and understanding of theatre theories and practices.

The degree is designed to serve students who will be pursuing a career in theatre performance, technical theatre or continued study in the field at the graduate level. Theatre majors may also seek Wisconsin DPI certification in theatre.

Goals for Program Graduates
1. Graduates will develop and demonstrate a breadth of knowledge and contextual understanding of theatre history, theory and dramatic literature, as these areas of theatre study form the foundation for all areas of theatre production.
2. Graduates will develop and demonstrate competency in areas of theatre production/performance – acting, directing, stage management and design – culminating in a senior capstone project.
3. Graduates will develop and demonstrate competency in critical and analytical thinking skills by effectively communicating and implementing their knowledge of theatre in numbers one and two above both verbally and in writing.

Theatre Emphasis (45 credits)

Required:

<table>
<thead>
<tr>
<th>Course</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 3130</td>
<td>Play Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4330</td>
<td>Directing</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4630</td>
<td>History of Theatre I</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4730</td>
<td>History of Theatre II</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4930</td>
<td>Senior Capstone</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Students must complete six credits of the following (at least two 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>

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 3210</td>
<td>Lighting Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3240</td>
<td>Costume Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3250</td>
<td>Scenic Design</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 4210</td>
<td>Dramatic Literature I</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 4220</td>
<td>Dramatic Literature II</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Electives:

Students must complete six hours of electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 1930</td>
<td>Voice and Diction</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 2500</td>
<td>Topics in Theatre</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>THEATRE 2900</td>
<td>Dance for Musical Theatre</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 2950</td>
<td>Movement for Theatre</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3220</td>
<td>Teaching Methods</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3400</td>
<td>Drafting the Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATRE 3830</td>
<td>Advanced Scene Study</td>
<td>3 cr</td>
</tr>
<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>

Majors 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>
Theatre Minor (30 credits)

Required:

- THEATRE 1130 Introduction to Theatre 3 cr
- THEATRE 1230 Stagecraft 3 cr
- THEATRE 1340 Introduction to Design 3 cr
- THEATRE 2730 Beginning Acting 3 cr
- THEATRE 3130 Play Analysis 3 cr

Students must complete three credits of the following (at least one in Practicum II):

- THEATRE 2220 Practicum I 1 cr
- THEATRE 3450 Practicum II 1 cr

One of the following:

- THEATRE 4210 Dramatic Literature I 3 cr
- THEATRE 4220 Dramatic Literature II 3 cr

One of the following:

- THEATRE 4630 History of Theatre I 3 cr
- THEATRE 4730 History of Theatre II 3 cr

Electives:

Students must complete six hours of electives

- THEATRE 1930 Voice and Diction 3 cr
- THEATRE 2500 Topics in Theatre 1-3 cr
- THEATRE 2900 Dance for Musical Theatre 3 cr
- THEATRE 2950 Movement for Theatre 3 cr
- THEATRE 3220 Teaching Methods 3 cr
- THEATRE 3230 Lighting Design 3 cr
- THEATRE 3240 Costume Design 3 cr
- THEATRE 3250 Scenic Design 3 cr

- THEATRE 3400 Drafting the Design 3 cr
- THEATRE 3830 Advanced Scene Study 3 cr
- THEATRE 3920 Classical Acting 3 cr
- THEATRE 4330 Directing 3 cr
- THEATRE 4830 Seminar in Theatre 3 cr

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

- THEATRE 3220 Teaching Methods 3 cr

Students needing certification are encouraged to complete:

- THEATRE 4330 Directing 3 cr
- THEATRE 4630 History of Theatre I 3 cr

Musical Theatre Minor (30 credits)

Required:

- THEATRE 1130 Introduction to Theatre 3 cr
- THEATRE 1230 Stagecraft 3 cr
- THEATRE 1340 Introduction to Design 3 cr
- THEATRE 2730 Beginning Acting 3 cr
- THEATRE 2900 Dance for Musical Theatre 3 cr
- THEATRE 3130 Play Analysis 3 cr
- THEATRE 4730 History of Theatre II 3 cr
- MUSIC 2750 History of American Musical Theatre 3 cr
- MUAP Applied Voice 3 cr

Students must complete three credits of the following (at least one in Practicum II):

- THEATRE 2220 Practicum I 1 cr
- THEATRE 3450 Practicum II 1 cr
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
PSYCHLGY 1130 General Psychology 3 cr
PSYCHLGY 2230 Introduction to Experimental Psychology 3 cr
PSYCHLGY 3960 Behavioral Research I 2 cr
PSYCHLGY 3970 Behavioral Research II 3 cr
PSYCHLGY 4330 History and Systems of Psychology 3 cr
MATH 1830 Elementary Statistics* 3 cr
ENGLISH 3000 Technical Writing* 3 cr

* Does not count toward the 36 credits for the major

Elective Category 1: Applied Courses (6 credits)
PSYCHLGY 3130 Child Psychology 3 cr
PSYCHLGY 3230 Adolescent Psychology 3 cr
PSYCHLGY 3990 Psychology of Adulthood and Aging 3 cr
PSYCHLGY 4030 Theories of Personality 3 cr
PSYCHLGY 4830 Psychology and the Law 3 cr

Elective Category 2: Experimental-Content Courses (6 credits)
PSYCHLGY* 3000 Cognitive Psychology 3 cr
PSYCHLGY 3030 Learning and Behavior 3 cr
PSYCHLGY 3430 Physiological Psychology 3 cr
PSYCHLGY 3530 Social Psychology 3 cr

Elective Category 3: Clinical Courses (6 credits)
PSYCHLGY 4430 Abnormal Psychology 3 cr
PSYCHLGY/C 4840 Substance Abuse I: Theory and Assessment 3 cr
PSYCHLGY/CJ 4850 Substance Abuse II: Intervention and Special Populations 3 cr
PSYCHLGY 4930 Techniques of Counseling 3 cr

Electives (4 credits):
(select additional courses from the above elective categories or from the following courses)
PSYCHLGY 2010 Careers in Counseling and Human Services 1 cr
PSYCHLGY 2030 Psychology of Personal Adjustment 3 cr
PSYCHLGY/WS 2530 Psychology of Women 3 cr
PSYCHLGY 3630 Psychology of Human Sexuality 3 cr
PSYCHLGY 3830 Psychology and Religion 3 cr
PSYCHLGY 4020 Contemporary Issues in Psychology 3 cr
PSYCHLGY 4660 Cooperative Field Experience* 1-8 cr
PSYCHLGY 4730 Independent Study in Psychology 1-3 cr
PSYCHLGY 4940 Advanced Techniques of Counseling 3 cr

* 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 which 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).

Requirements for students declaring a psychology major once they are already students at UW-Platteville:
1. Completion of General Psychology 1130 with a grade of “C” or better
2. An overall G.P.A. of at least 2.00

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:

PSYCHLGY 4430 Abnormal Psychology 3 cr
PSYCHLGY/CJ 4840 Substance Abuse I: Theory and Assessment 3 cr
PSYCHLGY 4930 Techniques of Counseling 3 cr
PSYCHLGY 4940 Advanced Techniques of Counseling and Psychotherapy 3 cr

or

PSYCHLGY 4950 Human Service Work w/Groups and Organizations 3 cr
PSYCHLGY 4660 Cooperative Field Experience 3 cr

Plus six credits in applied coursework

Please see your advisor for details.

Substance Abuse Counseling Emphasis

The coursework in this emphasis is recommended by the UW-Platteville Psychology Department for students interested in pursuing a career in substance abuse counseling.

Required Courses:

PSYCHLGY 3430 Physiological Psychology 3 cr
PSYCHLGY 4430 Abnormal Psychology 3 cr
PSYCHLGY 4660 Cooperative Field Experience 3 cr
PSYCHLGY/CJ 4840* Substance Abuse I 3 cr
PSYCHLGY/CJ 4850* Substance Abuse II 3 cr
PSYCHLGY 4930 Techniques of Counseling 3 cr
PSYCHLGY 4940 Advanced Techniques 3 cr

* Students are encouraged to register for these courses under criminal justice to avoid exceeding the 48-credit rule (see above)

Electives (6 credits)

Please see your advisor for details.

Psychology Minor (24 credits)

PSYCHLGY 1130 General Psychology 3 cr
PSYCHLGY 2230 Introduction 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

The remaining 12 credits must be selected from other psychology courses offered by the department of psychology. A grade of “C” or better must be earned in all psychology courses that contribute to the psychology 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

Program Chair: Tom Hunt
Office: 207 Pioneer Tower
Phone: 608.342.1898
E-mail: huntt@uwplatt.edu

Professor: Tom Hunt

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 selected in the fall of each academic year:

Tom Hunt, SEJ program director; Donna Anderson, Education Abroad; Barbara Parsons, professor emerita of philosophy; Tammy Salmon-Stephens, engineering; Michael Sharkey, philosophy; and Richard Waugh, 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</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS</td>
<td>2330 World Population, Food and Resources</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>3750 American Literature of Ethnicity and Immigration</td>
<td>3</td>
</tr>
<tr>
<td>PHLSPHY</td>
<td>2130 Peace Studies: Issues, Ideas and Morality of Nuclear War</td>
<td>3</td>
</tr>
<tr>
<td>PHLSPHY</td>
<td>3630 Philosophy of Law</td>
<td>3</td>
</tr>
<tr>
<td>PHLSPHY</td>
<td>4430 Seminar in Philosophy: Theories of Justice (T)</td>
<td>3</td>
</tr>
<tr>
<td>PHLSPHY</td>
<td>4430 Seminar in Philosophy: Utopianism and Human Nature (T)</td>
<td>3</td>
</tr>
<tr>
<td>WOMSTD</td>
<td>3330 Women and Globalization (T)</td>
<td>3</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</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGRAPHY</td>
<td>1230 Survey of Cultural Geography (C)</td>
<td>3</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>3330 Environmental Conservation (T)</td>
<td>3</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>3430 Geography of Africa (C)</td>
<td>3</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>3630 Geography of Latin America (C)</td>
<td>3</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>3930 Geography of Asia (C)</td>
<td>3</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>4230 Political Geography (C)</td>
<td>3</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>3330 Geography of the Middle East (C)</td>
<td>3</td>
</tr>
<tr>
<td>HISTORY</td>
<td>3070 Latin American History (C)</td>
<td>3</td>
</tr>
<tr>
<td>HISTORY</td>
<td>3450 History of U.S. Foreign Relations (C)</td>
<td>3</td>
</tr>
<tr>
<td>HISTORY</td>
<td>3640 Imperialism in Africa and Asia (C)</td>
<td>3</td>
</tr>
<tr>
<td>HISTORY</td>
<td>3920 Modern Middle East (C)</td>
<td>3</td>
</tr>
<tr>
<td>HISTORY</td>
<td>3930 East Asia (C)</td>
<td>3</td>
</tr>
<tr>
<td>HISTORY</td>
<td>3970 Modern China (C)</td>
<td>3</td>
</tr>
<tr>
<td>POLISCI</td>
<td>2940 Economics of Race, Gender, and Ethnicity (T)</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>POLSCI 3720</td>
<td>Politics of the Global Economy (T)</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLSCI 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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2730</td>
<td>Art History IV: Ethnic Art in the U.S. (C)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 2750</td>
<td>Native American Art (C)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 2650</td>
<td>World Literature II (C)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3740</td>
<td>Asian American Literature (C)</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 2230</td>
<td>Contemporary World Views (C)</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 2930</td>
<td>Major Traditions in Eastern Religions (C)</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPANISH 4720</td>
<td>Spanish Literature of the 20th Century (C)</td>
<td>2 cr</td>
</tr>
<tr>
<td>SPEECH 2300</td>
<td>Introduction to Intercultural Communication (C)</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Group Four: Ethics**

Topical course (T)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILSPHY 2530</td>
<td>Ethics (T)</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 2540</td>
<td>Science, Technology and Ethics (T)</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 3530</td>
<td>Feminist Philosophy (T)</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**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.
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 Comprehensive
Political Science
Social Sciences Comprehensive
  Geography Emphasis
  History Emphasis
  Psychology Emphasis

Minors
Geography
Geology
Environmental Science
History
International Studies
Political Science
Social Sciences
Sociology

About the Department and Majors
The UW-Platteville Department of Social Sciences, a combined program in the liberal arts, offers courses of study which challenge students to develop an understanding of the dynamics of individual and social behavior from a number of perspectives. The department offers programs in economics, environmental earth science, geography, geology, history, international studies, political science, social sciences comprehensive and sociology. Descriptions of these programs and courses are found below.

While the study of social sciences may also include criminal justice and psychology, these programs are listed under their own department headings.

Economics

Contact: Brian Peckham
Office: 250 Gardner Hall
Phone: 608.342.1752
E-mail: peckham@uwplatt.edu

Professors:
John Ifediora
Terrence L. Liska
Abdollah S. Soofi

Associate Professor:
Brian W. Peckham

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 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 social sciences department. 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, internship and attendance at professional meetings. They learn to use modern computer equipment, 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 at 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
GEOGRAPHY 1050 Introduction to Human Geography          3 cr
GEOGRAPHY 1230 Survey of Cultural Geography               3 cr
GEOGRAPHY 3030 Economic Geography                         3 cr
GEOGRAPHY 3170 Space, Place and Gender                    3 cr
GEOGRAPHY 4230 Political Geography                        3 cr
GEOGRAPHY 4350 Gender Relations in Cross-Cultural Perspective

Nature and Society Focus
GEOGRAPHY 3290 Environmental Conservation                 3 cr
GEOGRAPHY 3850 Geography of the National Parks            3 cr
GEOGRAPHY 4150 Climate Change                              3 cr

Geographic Techniques Focus
GEOGRAPHY 2230 GIS: Thematic Mapping                       4 cr
GEOGRAPHY 3230 GIS: Vector Fundamentals                   4 cr
GEOGRAPHY 3520 Remote Sensing and Photogrammetry          3 cr
GEOGRAPHY 3720 GIS: Digital Image Analysis                3 cr
GEOGRAPHY 4330 GIS: Raster Fundamentals                   3 cr

Regional Focus
GEOGRAPHY 1330 World Regional Geography                   3 cr
GEOGRAPHY 3130 Geography of the United States and Canada   3 cr
GEOGRAPHY 3350 Geography and Development of the Middle East
GEOGRAPHY 3430 Geography of Africa                         3 cr
GEOGRAPHY 3530 Topics in Regional Geography               2-3 cr
GEOGRAPHY 3630 Geography of Latin America                 3 cr
GEOGRAPHY 3730 Geography of Europe                         3 cr
GEOGRAPHY 3930 Geography of Asia                          3 cr

Field Experiences Focus
GEOGRAPHY 2250 Tropical Marine Ecosystems                 3 cr
GEOGRAPHY 3120 Geography of Wisconsin                     3 cr
GEOGRAPHY 3750 Field Geography of the Western United States
GEOGRAPHY 3960 Geography of Japan                          6 cr
GEOGRAPHY 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 at 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
GEOGRAPHY 2230 Cartography and Graphics                     3 cr
GEOGRAPHY 3230 Geographic Information Systems               3 cr
GEOLOGY 3430 Hydrogeology                                   3 cr
GEOGRAPHY 3520 Air Photo Interpretation                     3 cr
GEOGRAPHY 3720 Remote Sensing                               3 cr
GEOLOGY 4120 Topical Seminar                                2-3 cr
GEOLOGY 4340 Regional Geomorphology                         4 cr
GEOLOGY 4760 Field Excursion                                1-8 cr
Environmental Science
www.uwplatt.edu/geography/envmnsci/envmnsci.html

Contact: Richard A. Waugh
Office: 260 Gardner Hall
Phone: 608.342.1386
E-mail: waugh@uwplatt.edu

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):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGRPHY 3330</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3450</td>
<td>3 cr</td>
</tr>
<tr>
<td>CRIMLJUS 4030</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

One Physical Processes Course from (4 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGRPHY 1140</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOLOGY 1140</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

Five credits of Chemistry chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMSTRY 1050</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMSTRY 1140</td>
<td>8 cr</td>
</tr>
<tr>
<td>CHEMSTRY 1240</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMSTRY 1450</td>
<td>5 cr</td>
</tr>
</tbody>
</table>

Electives (minimum 6 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGRPHY 1240</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGRPHY 1370</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3230</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3340</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3750</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3840</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHLSPHY 2540</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 2230</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOLOGY 3430</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY 3130</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 2450</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 2640</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3030</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3110</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3230</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3340</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3460</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3650</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3660</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 4710</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>CIVILENG 3340</td>
<td>4 cr</td>
</tr>
<tr>
<td>CIVILENG 4300</td>
<td>3 cr</td>
</tr>
<tr>
<td>CIVILENG 4310</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

* Requires BIOLOGY 1610 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER 1130</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 2230</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3230</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3720</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 4330</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Electives (6 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1830</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3520</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3560</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3670</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3840</td>
<td>4 cr</td>
</tr>
<tr>
<td>GEOGRPHY 4120</td>
<td>2-3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 4660</td>
<td>1-8 cr</td>
</tr>
</tbody>
</table>
History

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

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

Associate Professors:
Joong-Jae Lee
Adam Stanley

Assistant Professor:
Melissa Gormley

Senior Lecturers:
Ruth Alcalay
Delbert Carey
Susan Hellert

Lecturer:
Tracey Roberts

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, 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, 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 ............................................... 36 credits

Students must have a cumulative grade point average of 2.50 within the major studies for graduation.

History Major (36 credits)

Students must take the following required courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 1010</td>
<td>World Civilization I</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 1020</td>
<td>World Civilization II</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 1330</td>
<td>U.S. History to 1877</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 1430</td>
<td>U.S. History since 1877</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Choose two of the following U.S. History courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 3010</td>
<td>Race, Gender and U.S. Labor History</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3080</td>
<td>American Military History</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3120</td>
<td>American Colonial History</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3130</td>
<td>The New Nation</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3140</td>
<td>The Civil War and Reconstruction</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3150</td>
<td>Gilded Age and Progressive Era</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3230</td>
<td>The West in American History</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3240</td>
<td>African-American History 1619 to Present</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3320</td>
<td>The History of Wisconsin</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3400</td>
<td>The Vietnam War</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3430</td>
<td>Twentieth Century America</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3450</td>
<td>History of U.S. Foreign Relations</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3480</td>
<td>The United States Since 1945</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3520</td>
<td>American Women</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 4230</td>
<td>Issues in History (U.S. topics)</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Choose two of the following European History courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 3610</td>
<td>British Isles to 1714</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3620</td>
<td>British Isles since 1714</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3700</td>
<td>Women in European Civilization</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3710</td>
<td>Ancient Civilizations</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3730</td>
<td>Medieval Europe</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
From the courses listed under history major above, choose:

Students must take the following required courses:

- 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 and Culture 3 cr
- HISTORY 4110 Russia to 1856 3 cr
- HISTORY 4120 Modern Russia 3 cr
- HISTORY 4230 Issues in History (European topics) 3 cr

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 (non-Western topics) 1-3 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

International Studies

www.uwplatt.edu/socialsci/international/international.html

Contact: Travis Nelson
Office: 138 Gardner Hall
Phone: 608.342.1809
E-mail: nelsontra@uwplatt.edu

About the International Studies Program and Major

International studies is available as a comprehensive interdisciplinary major and a 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 the increasingly complex world. The program offers considerable flexibility for students to develop areas of specialization. Students are able to draw upon the offerings of other departments at this university. It is recommended that all majors study a foreign language and, if possible, complete a minor in that language. Also, education abroad programs are available and recommended for students in this major.

Mission

The international studies major provides an understanding of transnational and intercultural relations through interdisciplinary work across departments in the social sciences, humanities and fine arts. It includes curricular, experiential and skills components which enable students to engage in personal development, academic commitment, intercultural development in the form of understanding cultural values of different cultures and career development.

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, at least equivalent to three courses of college-level work

General Requirements

Bachelor of Arts Degree

Total for graduation .................................................. 120 credits
General education .................................................. 44-58 credits
Major studies .......................................................... 60 credits
Foreign language minor (suggested) ......................... 24 credits

163
International Studies Comprehensive Major (60 credits)

The international studies major has a core requirement of 15 credit hours. Students must choose between Track I or Track II. The list of international education courses is found below:

**Core Required:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY</td>
<td>World Civilization II</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>World Regional Geography</td>
<td>3 cr</td>
</tr>
<tr>
<td>ECONOMIC</td>
<td>Principles of Macroeconomics</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI</td>
<td>International Relations</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLOGY</td>
<td>Cultural Anthropology</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Choose either track:**

**Track I**

International education courses (33 credits) from the list below

Foreign language (12 credits in one language)

**Track II**

Foreign language (24 credits): French, Spanish or German minor

Area studies (21 credits): Not limited to one area

A semester abroad is strongly recommended. Most classes taken abroad will count toward the international studies major.

---

**Area studies (21 credits): Not limited to one area**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS</td>
<td>World Population, Food and Resources</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART</td>
<td>Art History V: Far Eastern Art</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN</td>
<td>Global Business</td>
<td>3 cr</td>
</tr>
<tr>
<td>ECONOMIC</td>
<td>Comparative Economic Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>World Literature I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>World Literature II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>The World Novel</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>Survey of Cultural Geography</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>Economic Geography</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>Geography of Africa</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>Topics in Regional Geography</td>
<td>2-3 cr</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>Geography of Latin America</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>Geography of Europe</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>Geography of Asia</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>Geography of Japan</td>
<td>6 cr</td>
</tr>
<tr>
<td>GEOGRAPHY</td>
<td>Political Geography</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY</td>
<td>Latin American History</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY</td>
<td>Imperialism in Africa and Asia</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY</td>
<td>Modern Middle East</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY</td>
<td>Modern Japan</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY</td>
<td>Modern China</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY</td>
<td>Russia to 1856</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY</td>
<td>Modern Russia</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY</td>
<td>Contemporary Worldviews</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI</td>
<td>Comparative Politics</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI</td>
<td>Modern Japan</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI</td>
<td>Modern China</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI</td>
<td>Politics of the Global Economy</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLOGY</td>
<td>Introductory Anthropology</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPEECH</td>
<td>Introduction to Intercultural Communication</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

---

Students who major in international studies must complete at least two years of a foreign language, and a foreign language minor is suggested.

The major requirements also include a written competency certification developed by the department. Please check at the department office for details.

A semester or year in a foreign study program, which is strongly recommended, is an ideal way to fulfill parts three and four of the major.

**Education Abroad Programs**

International studies majors are encouraged to give consideration to a semester or year abroad in an international study location. A semester abroad is an ideal way to complete the third part of the major because a student actually lives in the geographical region of specialization and studies aspects of the culture. For most programs, fluency in a foreign language is not a prerequisite for participation.

Primary education abroad locations include: London, England; Newcastle, Australia; Suva, Fiji; Nagasaki, Japan; Rome, Italy; Seville, Spain; Townsville, Australia; Belfort, France; Darmstadt, Germany; Galway, Ireland; Dronten, Netherlands; Zwolle, Netherlands; and Jonkoping, Sweden. In addition, students can choose from locations all over the globe through affiliation arrangements. Detailed information about each program is available from the Education Abroad office located in Royce Hall, Room 111, www.uwplatt.edu/intprog/, phone 608.342.1726.

---

**International Studies Minor (24 credits)**

In our global society, employers increasingly expect graduates to possess an understanding of other nations and cultures. The international studies minor provides students with the opportunity to study international topics from an interdisciplinary perspective. Students pursuing the minor in international studies must be self-directed and able to plan coursework to complement their major field of study. Students pursue 12 credits of foreign language in one language and complete 12 credits from the list of courses fulfilling the international education university requirement.
Political Science

www.uwplatt.edu/socialsci/polsci/polsci.html

Contact: John Rink
Office: 140 Gardner Hall
Phone: 608.342.1795
E-mail: rink@uwplatt.edu

Professors:
Rosalyn Broussard
John R. Rink

Assistant Professor:
Travis Nelson

Senior Lecturer:
Scott Nikolai

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 follow national and world issues intelligently
3. demonstrate a knowledge and appreciation of political thought and social research methods

General Requirements
Bachelor of Arts Degree
Total for graduation ........................................120 credits
General education ........................................ 44-58 credits
Major studies .................................................. 36 credits

Political Science Major (36 credits)

All students must take the following courses:
POLISCI 1230 Introduction to American Government 3 cr
and either
POLISCI 1130 Introduction to Politics 3 cr
or
POLISCI 1330 International Relations 3 cr
POLISCI 3650 Political Theory 3 cr
SOCIOLOGY 3430 Social Research 3 cr

Choose 24 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, 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 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 in Political Science 1-3 cr
POLISCI 4730 Trial Advocacy 1-3 cr
POLISCI 4760 Seminar in Selected Topics in Political Science 1-3 cr

Political science majors must demonstrate a writing proficiency. Please see the department contact person for the requirements.

Political Science Minor (24 credits)
POLISCI 1230 Introduction to American Government 3 cr
and either
POLISCI 1130 Introduction to Politics 3 cr
or
POLISCI 1330 International Relations 3 cr
Elective courses 18 cr
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.

Economics Program
Contact: Brian Peckham
Economics Office: 250 Gardner Hall
Phone: 608.342.1752
E-mail: peckham@uwplatt.edu

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
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 1230 Survey of Cultural Geography 3 cr
- GEOGRPHY 3030 Economic Geography 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 4930 Senior Seminar 3 cr

Political Science Required Courses:
- POLISCI 1130 Introduction to Politics 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

Psychology Required Courses:
- PSYCHLGY 1130 General Psychology 3 cr
- PSYCHLGY 3530 Social Psychology 3 cr

The following may be used as an elective:
- PSYCHLGY 4430 Abnormal Psychology 3 cr

Psychology Emphasis (69 Credits)

Psychology Required Courses:
- PSYCHLGY 1130 General Psychology 3 cr
- PSYCHLGY 2230 Introduction 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 3330 Environmental Conservation 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 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
- and
- POLISCI 1330 International Relations 3 cr
- or
- POLISCI 1130 Introduction to Politics 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:
- GEOGRPHY 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 this social sciences minor.

Sociology Required Courses:
- SOCIOLGY 1030 Principles of Sociology 3 cr
- SOCIOLGY 1130 Introductory Anthropology 3 cr
- or
- SOCIOLGY 2130 Cultural Anthropology 3 cr

Psychology Required Course:
- PSYCHLGY 1130 General Psychology 3 cr

Note: PSYCHLGY 3530 Adolescent Psychology can be taken to satisfy GER requirements for education majors, but it does not count toward the social sciences minor.

Students who complete either the social sciences comprehensive major with an emphasis in history or the history major and the social sciences comprehensive minor, will be qualified to teach history at all grades and levels, as well as social studies courses in middle school and high school. 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

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: Karen Gagne
Senior Lecturer: Carol Feyen

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 which requires a minimum of 24 credits including no fewer than 12 credits at the 3000 level or above.

Students often minor in sociology if their majors are criminal justice or psychology. Both of these disciplines lead to employment in the criminal justice system, or the social welfare system.

Students of sociology learn important skills in reading, writing, analysis and logic. Students learn to do research and to interpret social, economic, political, cultural and technical change in a variety of contexts.

Sociology Minor (24 credits)

The sociology minor requires a minimum of 24 credits including no fewer than 12 credits at the 3000 level or above.

- SOCIOLGY 1030 Principles of Sociology 3 cr
- SOCIOLGY 1130 Introductory 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
Women's and Gender Studies Program
www.uwplatt.edu(wsprogram)

Department Chair: Teresa Burns
Office: 428 Warner Hall
Phone: 608.342.1252
E-mail: burnst@uwplatt.edu

About the Department and Minor
The Women's and Gender Studies Program Council includes the following faculty and staff, plus one to two student members selected in the fall of each academic year.

- Carl Allsup, Ethnic Studies
- Laura Beadling, English
- Linda Bernhardt, Psychology
- Jackie Boddin, Women's and Gender Studies
- Rosalyn Brousard, Political Science
- Teresa Burns, English
- Martha Drummond, English
- Pat Foster, Women's Center
- Karen Gagne, Social Sciences
- Valerie Gill-Mast, Psychology
- Melissa Gormley, Social Sciences
- J. Keith Hale, English
- Linda James, Art
- Rea Kirk, Education
- Mary Lenzi, Philosophy
- Scott Nikolai, Political Science
- Florence Omachonu, Education
- Amy Parsons, English
- Regina Pauly, Karrmann Library
- Adam Stanley, History/Political Science
- Tammy Salmon-Stephens, Engineering
- Kathleen Tigerman, English
- Amanda Tucker, English
- Nancy Turner, History
- Laura Wendoff, English
- Mary Rose Williams, Communication Technology

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
- WOMSTD 3730 Women and the Law 3 cr
- WOMSTD 4130 Space, Place and Gender 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
- ENGLISH 2780 Race and Gender in American Film 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 which 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 which support their personal and educational goals. Students interested in the certificate program should consult the director of women’s and gender studies.

169
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

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 counselor education and teacher education. Programs include:

Counselor Education
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
The School of Education has a rich history at UW-Platteville. The university has been preparing teachers since the first Normal School was established in 1866. The school takes great pride in this tradition and is committed to the continuation of quality in its educational offerings and programs.

The degree programs build on the School of Education theme, Best Practices Make the Difference. Best practices follow a developmental, reflective model. Best practices teachers are defined as professionals who are aware of the developmental stages of their students as well as their own professional developmental needs. Best practices teachers are growing in their skills of providing developmentally appropriate instruction and effective teacher strategies to assist students in becoming reflective thinkers. Best practices teachers are themselves reflective thinkers.

The School of Education administers professional education programs at UW-Platteville and is responsible for the preparation of teachers. The School of Education is responsible for all professional and clinical programs; serves as a resource center for students, faculty, program directors and administrators; maintains appropriate student records; and maintains appropriate records for accreditation and Wisconsin Department of Public Instruction program approval, and for National Council for Accreditation of Teacher Education 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 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)
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)
Approved Minors

- **Biology**: Department of Biology (BILSA)
- **Chemistry**: Department of Chemistry and Engineering Physics (EMS)
- **Computer Science**: Department of Computer Science and Software Engineering (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)
- **Speech Communication**: Department of Performing and Visual Arts (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 completes this requirement.

**Cooperatives**

Wisconsin statutes specify that “in granting certificates for the teaching of courses in economics, social studies and agriculture, adequate instruction in cooperatives shall be required.” AGINDUS 2500 Pro-

**Reading**

For teachers in B-11 programs, Wisconsin requires coursework in the teaching of reading and language arts using appropriate instructional methods, including phonics.

**Minority Relations**

Wisconsin requires that all students completing teacher preparation programs demonstrate knowledge and understanding of minority group relations including:

1. The history, culture and tribal sovereignty of American Indian tribes and bands located in Wisconsin.
2. The history, culture and contributions of women and various racial, cultural, language and economic groups in the United States.
3. The philosophical and psychological basis of attitude development and change.
5. Evaluating and assessing the forces of discrimination, especially racism and sexism on faculty, students, curriculum, instruction and assessment in the school program.
6. Minority group relations through direct involvement with various racial, cultural, language and economic groups in the U.S.

In addition, students must demonstrate knowledge of conflict resolution including:

1. Resolving conflicts between pupils and between pupils and school staff
2. Assisting pupils in learning methods of resolving conflicts between pupils and between pupils and school staff, including training in the use of peer mediation to resolve conflicts between pupils
3. Dealing with crises, including violent, disruptive, potentially violent or potentially disruptive situations that may arise in school or activities supervised by school staff as a result of conflicts between pupils or between pupils and other persons

**Children with Disabilities**

All applicants for teaching licenses must meet the code requirements with regard to Children with Disabilities. TEACHING 3320 Introduction to Inclusion meets this requirement.

**School Setting Field Experiences**

Effective teacher preparation demands that pre-service teachers have laboratory experiences with children/adolescents during their preparation. These experiences are designed to acquaint teacher candidates with a variety of schools and settings and to encourage them to connect educational theories with practice. Experiences are developmental, structured and supervised by university and school faculty. Teacher candidates will spend more than 150 hours in school settings prior to student teaching. Many professional education courses include service learning hours and laboratory experiences.
Teacher Education Programs
www.uwplatt.edu/education

Program Contact: Karen Stinson
Office: 139 Doudna Hall
Phone: 608.342.1131
E-mail: stinsonk@uwplatt.edu

Professors:
Alison Brooke Bunte
Rea Kirk
William McBeth
John F. Nkemnji

Associate Professor:
Leigh Monhardt

Assistant Professors:
Daniel Leitch
Florence Omachonu
Karen Ruffner
Wonim Son

Lecturers:
Dave Chellevold
Linda Doser
Lisa Emendorfer
Jodean Grunow
Tim Hazen
Dale Henze
Vic Levy
Julie Phillips
Dan Pundsack
Jamison Rusthoven
Cathy Allen Wirtz

Students seeking teaching licensure must be sure that courses taken for university general education requirements also satisfy the Wisconsin DPI requirements. The following are general guidelines. Specific requirements and suggestions are included with the licensure areas that follow this section.

General Requirements

Communication Skills:

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) 3 cr
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):
PHYS ED 1000 Fitness Assessment and Management 1 cr
PHYS ED **** Physical Activity 1 cr
(see class schedule)

Humanities, Fine Arts and Historical Perspective (12 credits):
Fine arts course (required)
ART 1230 Art and Children's Literature for Teachers 3 cr
or
ART 1240 Art and Social Studies for Teachers 3 cr
General Psychology 1130 General Psychology 3 cr
and
Child Psychology 3130 Child Psychology 3 cr

Social Sciences (9 credits):
Introduction to American Government 1230 3 cr
Environmental Conservation 3330 3 cr
In-depth social science course in political science or geography 3 cr
or
General Psychology 1130 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):
World Civilization II (required) 1020 3 cr
Ethnic/Gender Equity in Education 3630 3 cr
(counts for both ethnic and gender studies plus professional education)

Elementary Education Major–Birth-Age 11 (25 credits)

Health, Nutrition and Physical Education 2040 4 cr
Reading, Literature and Literacy I 3040 4 cr
Reading, Literature and Literacy II 3040 4 cr
Integrated Methods: Language Arts and Social Studies 4090 4 cr
Teaching Mathematics/Science in Early Childhood/Elementary Settings 4140 4 cr
Elementary Music Methods 3160 3 cr
Senior Seminar 4250 2 cr

Elementary Education Minor–Birth-Age 11 (24 credits)

Foundations of Early Childhood Education 2210 3 cr
K-4 Methods for Cognitive Development 3130 3 cr
Pre-K Methods for Cognitive Development 3240 3 cr
Creative Development in Early Childhood 3640 3 cr
Guidance, Assessment and Instruction in Early Childhood 3730 4 cr
Administration and Family Relations in Early Childhood 4330 3 cr
Oral Language and Emergent Literacy 4420 3 cr
TEACHING 4730 Working with Families of Children with Disabilities 2 cr

G.P.A. of 3.00 or better

**Professional Education—Birth-Age 11 (31 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING 1230</td>
<td>Introduction to Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 2010</td>
<td>Computer Applications in Education (or test out)</td>
<td>1 cr</td>
</tr>
<tr>
<td>TEACHING 2130</td>
<td>Human Growth and Development</td>
<td>3 cr</td>
</tr>
<tr>
<td>or PSYCHLGY 3130</td>
<td>Child Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 3320</td>
<td>Introduction to Inclusion</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 4020</td>
<td>Educational Media Technology</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 4240</td>
<td>Student Teaching (Early Childhood)</td>
<td>2 cr</td>
</tr>
<tr>
<td>or TEACHING 4260/4360</td>
<td>Student Teaching (kindergarten/primary)</td>
<td>12 cr</td>
</tr>
<tr>
<td>or TEACHING 4760</td>
<td>Internship</td>
<td>12 cr</td>
</tr>
<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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING 4030</td>
<td>Management for Children with Disabilities (CWD)</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 4120</td>
<td>Pre-Student Teaching in CWD</td>
<td>2 cr</td>
</tr>
<tr>
<td>or TEACHING 4150</td>
<td>Assessing Children with Disabilities (CWD)</td>
<td>3 cr</td>
</tr>
<tr>
<td>or COUNSLED 4600</td>
<td>Measurement for Counseling</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 4200</td>
<td>Transitions for Children with Disabilities (CWD)</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 4420</td>
<td>Oral Language and Emergent Literacy</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 4630</td>
<td>Learning and Language Disorders</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 4730</td>
<td>Working with Families of Children with Disabilities (CWD)</td>
<td>2 cr</td>
</tr>
<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, counselor education, ethnic studies, women’s 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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 1130</td>
<td>Freshman Composition I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 1230</td>
<td>Freshman Composition II</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPEECH 1010</td>
<td>Public Speaking (acceptable)</td>
<td>2 cr</td>
</tr>
<tr>
<td>or SPEECH 2010</td>
<td>Speech Communication for Teachers (recommended)</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

“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):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1030</td>
<td>Math for Educators I</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 2030</td>
<td>Math for Educators II</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 3030</td>
<td>Math for Educators III</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

“C’s” or better required

**Physical Education (2 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSED 1000</td>
<td>Fitness Assessment and Management</td>
<td>1 cr</td>
</tr>
<tr>
<td>PHYSED XXXX</td>
<td>Physical Activity (see class schedule)</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

**Humanities, Fine Arts and Historical Perspective (12 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLISCI 1230</td>
<td>Introduction to American Government (required)</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 1020</td>
<td>World Civilization II</td>
<td>3 cr</td>
</tr>
<tr>
<td>or In-depth humanities, fine arts or historical perspective course</td>
<td>3 cr</td>
<td></td>
</tr>
</tbody>
</table>

**Social Sciences (9 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGRPHY 3330</td>
<td>Environmental Conservation (required)</td>
<td>3 cr</td>
</tr>
<tr>
<td>In-depth social sciences course</td>
<td>3 cr</td>
<td></td>
</tr>
</tbody>
</table>

**Natural Sciences (9 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological science lab course</td>
<td>4-5 cr</td>
<td></td>
</tr>
<tr>
<td>or Physical science lab course (required): select from chemistry, geography, geology, physics or physical science</td>
<td>4-5 cr</td>
<td></td>
</tr>
</tbody>
</table>
Professional Education–Ages 10-14
(51 credits)

Grade of “C” or better in all courses listed below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSED 2030</td>
<td>Health Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 1010</td>
<td>Middle-Level Mentoring</td>
<td>2 cr</td>
</tr>
<tr>
<td>or</td>
<td>TEACHING 1230</td>
<td>Introduction to Education</td>
</tr>
<tr>
<td>TEACHING 2010</td>
<td>Computer Applications in Education</td>
<td>1 cr</td>
</tr>
<tr>
<td>TEACHING 2020</td>
<td>Middle-Level Exploratory I</td>
<td>1 cr</td>
</tr>
<tr>
<td>TEACHING 2030</td>
<td>Middle-Level Exploratory II</td>
<td>1 cr</td>
</tr>
<tr>
<td>TEACHING 2130</td>
<td>Human Growth and Development</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 3320</td>
<td>Introduction to Inclusion</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 3630</td>
<td>Ethnic/Gender Equity in Education</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 4050</td>
<td>Middle-Level Professional Preparation</td>
<td>18 cr</td>
</tr>
<tr>
<td>TEACHING 4070</td>
<td>Post-Student Teaching Seminar</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING 4460</td>
<td>Student Teaching</td>
<td>12 cr</td>
</tr>
<tr>
<td>or</td>
<td>TEACHING 4760</td>
<td>Internship</td>
</tr>
<tr>
<td>TEACHING 4990</td>
<td>Licensure Portfolio</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

G.P.A. 2.75 or better

Minors–Ages 10-14 (24-48 credits)

G.P.A. 2.75 or better

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
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).

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 3 cr
- TEACHING 3630 Ethnic/Gender Equity in Education 3 cr
- TEACHING 3840 Reading for Middle/ Secondary Teachers 4 cr
  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 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 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 (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 (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
  (required)
- 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

See appropriate department listings for required courses.

Professional Education–Birth-Age 21
(38-48 credits)

Required Courses (30+ credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING</td>
<td>1230 Introduction to Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING</td>
<td>2010 Computer Applications in Education</td>
<td>1 cr</td>
</tr>
<tr>
<td>TEACHING</td>
<td>2130 Human Growth and Development</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING</td>
<td>3320 Introduction to Inclusion</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING</td>
<td>3630 Ethnic/Gender Equity in Education</td>
<td>3 cr</td>
</tr>
<tr>
<td></td>
<td>Methods of Teaching Major</td>
<td>3+ cr</td>
</tr>
<tr>
<td>TEACHING</td>
<td>4660 Student Teaching</td>
<td>12 cr</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEACHING</td>
<td>4760 Internship</td>
<td>12 cr</td>
</tr>
<tr>
<td>TEACHING</td>
<td>4990 Licensure Portfolio</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

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):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING</td>
<td>4020 Educational Media Technology</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING</td>
<td>4210 Pre-Student Teaching</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING</td>
<td>3110 Key Concepts in Middle Level Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING</td>
<td>3120 Characteristics of Transcenscents</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

Option B (12 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING</td>
<td>3110 Key Concepts in Middle Level Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING</td>
<td>3120 Characteristics of Transcenscents</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING</td>
<td>4020 Educational Media Technology</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING</td>
<td>4210 Pre-Student Teaching</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING</td>
<td>4220 Advising, Interaction and Communication</td>
<td>2 cr</td>
</tr>
<tr>
<td>TEACHING</td>
<td>4620 Teaching Transcenscents</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

Option C (18 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING</td>
<td>4050 Middle-Level Professional Preparation</td>
<td>18 cr</td>
</tr>
</tbody>
</table>

Counselor Education

www.uwplatt.edu/education/counselor/counselor.htm

Program Contact: Karen Stinson, Ed.D.
Office: 139 Doudna Hall
Phone: 608.342.1131
E-mail: stinsonk@uwplatt.edu

Professor:
Kimberly Tyescher

Associate Professor:
Dominic Barracough

Assistant Professors:
Steven Benish
Jovan Hernandez

Lecturers:
Natalie Kozelka
Don Osterday

About the Counselor Education Program
The School of Education offers a counselor education program which is primarily responsible for preparing students for a Master of Science in Education degree in school, community 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.
Physical Education and Health

www.uwplatt.edu/education/undergrad/phyed.html

Contact: Colleen McCabe
Office: 110 F Williams Fieldhouse
Phone: 608.342.1796 or 608.342.1573
E-mail: mccabec@uwplatt.edu

Associate Professors:
Colleen McCabe
Scott Ringgenberg
Rod Zentner

Assistant Professor:
Scott Ringgenberg

Lecturers:
Tom Antczak
Pam Connolly
Ulrich Daeuber
Lisa Emendorfer
Loren Finn
Jim Nickasch
Renee Ringgenberg
Scott Soja
Tim Swenson

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 ............................................. 135 credit
General education .................................................. 50 credits
Major PE studies .................................................... 60 credits
Professional education ............................................ 25 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.

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSED</td>
<td>First Aid</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Health Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Movement Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Introduction to Physical Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Adventure Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Team Sports</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Adventure Education Practicum</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Individual Sports</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Technology in Health and Physical Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Physiology of Exercise</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Adapted Aquatics</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Teaching Sexuality and Drugs</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Lifetime Activities</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Outdoor Activities/Water Safety Instruction</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Elementary/Middle School</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Physical Education Methods</td>
<td></td>
</tr>
<tr>
<td>PHYSED</td>
<td>Health Methods</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Assessment and Screening in Physical Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Kinesiology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Perceptual Motor Learning</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Nutrition</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Emotional Health</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Consumer Health</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>Organization Administration and Curriculum of Physical Education and Health Education</td>
<td>4 cr</td>
</tr>
</tbody>
</table>
Science Course (4 credits):

BIOLOGY 2340 Essentials of Human Anatomy and Physiology 4 cr

or

BIOLOGY 2140 Anatomy and Physiology I 4 cr

Professional Education Courses (25 credits):

TEACHING 2010 Computer Applications in Education 1 cr
PHYSSED 3430 Teaching Exceptional Children in Health and Physical Education 3 cr
TEACHING 3630 Ethnic and Gender Equity in Education 3 cr
PHYSSED 4230 Methods in Middle/Secondary Education 3 cr
TEACHING 4660 B-21 Student Teaching 12 cr
TEACHING 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):

PHYSSED 3430 Teaching Exceptional Children in Health and Physical Education 3 cr
PHYSSED 3510 Assessment and Screening in Physical Education 2 cr
PHYSSED 3830 Perceptual Motor Learning and Motor Development 2 cr
PHYSSED 4530 Practicum in Adapted Physical Education 3 cr

Health Education Minor (29 credits)

Required Courses:

PHYSSED 2020 First Aid/Accident Prevention/Community CPR 2 cr
PHYSSED 2030 Health Education 2 cr
PHYSSED 3220 Teaching Human Sexuality, Alcohol and Other Drugs 2 cr
PHYSSED 3430 Teaching Exceptional Children Health and Physical Education 3 cr
PHYSSED 3500 Methods of Teaching Health Education 3 cr
PHYSSED 3850 Nutrition 2 cr
PHYSSED 3920 Emotional Health 2 cr
PHYSSED 4320 Consumer Health 2 cr
PHYSSED 4330 Organization, Administration and Curriculum of Physical Education and Health Promotion 4 cr
PHYSSED 4940 Seminar in Community/Environmental Health Education 3 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
COMMNCTN 3010 Business Communication 3 cr

or

TEACHING 2010 Computer Applications in Education 1 cr

PHYSSED 3010 Technology in Health and Physical Education 2 cr

A minor must be approved by the advisor and the physical education program coordinator.

Required Internships (14-18 credits):

PHYSSED 4850 Fitness Intern (I) 3 cr
PHYSSED 4860 Fitness Intern (II) 3 cr
PHYSSED 4870 Fitness Intern (off campus) 8-12 cr

Health Promotion Emphasis

Total for graduation ........................................131 credits
General education ...........................................48 credits
Major PE studies ............................................71 credits
Other required courses ......................................12 credits

An overall G.P.A. of 2.75 is required to qualify for an internship.

Required Courses (53-56 credits):

PHYSSED 1000 Fitness Assessment Management 1 cr
PHYSSED 2010 Aerobics/Hydroaerobics 1 cr
PHYSSED 2020 First Aid 2 cr
PHYSSED 2030 Health Education 3 cr
PHYSSED 2320 Introduction to Physical Education 2 cr
PHYSSED 2510 Individual Sports 2 cr
PHYSSED 3000 Level or above Elective 2 or 3 cr
PHYSSED 3000 Level or above Elective 2 or 3 cr
PHYSSED 3120 Physiology of Exercise 3 cr
PHYSSED 3120 Stress Management at the Worksite 2 cr
PHYSSED 3240 Exercise Among Maturing Adults 2 cr
PHYSSED 3330 Lifetime Activities 2 cr
PHYSSED 3360 Fitness Evaluation 1 cr
PHYSSED 3380 Fitness Programming and Prescription 2 cr
PHYSSED 3400 Outdoor Activities/ 2 cr
PHYSSED 3400 Water Safety Instruction 2 cr
PHYSSED 3420 Health Promotion at the Worksite 2 cr
PHYSSED 3500 Methods of Teaching Health Education 3 cr
PHYSSED 3720 Kinesiology 3 cr
PHYSSED 3850 Nutrition 2 cr
PHYSSED 4320 Consumer Health 2 cr
PHYSSED 4330 Organization, Administration and Curriculum of Physical Education and Health Promotion 4 cr
PHYSSED 4410 Seminar in Health Promotion 3 cr
PHYSSED 4520 Injury Prevention/Treatment 2 cr
PHYSSED 4620 Advanced Athletic Training 2 cr

Recommended: Business Administration, Psychology or Health Education
Science Course (4 credits):

BIOLOGY 2340 Essentials of Human Anatomy and Physiology 4 cr

or

BIOLOGY 2140 Anatomy and Physiology I 4 cr

In order to be assigned to an off-campus internship, the student must meet the following criteria:

1. Senior standing
2. Overall 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
Course Descriptions

This page provides information for reading course descriptions.

<table>
<thead>
<tr>
<th>Course Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting ........................................... ACCTING</td>
</tr>
<tr>
<td>Agricultural Industries............................ AGINDUS</td>
</tr>
<tr>
<td>Agricultural Sciences............................... AGSCI</td>
</tr>
<tr>
<td>Art .......................................................... ART</td>
</tr>
<tr>
<td>Biology........................................................ BIOLOGY</td>
</tr>
<tr>
<td>Business Administration............................. BUSADMIN</td>
</tr>
<tr>
<td>Chemistry................................................... CHEMSTRY</td>
</tr>
<tr>
<td>Civil and Env. Engineering.......................... CIVILENG</td>
</tr>
<tr>
<td>Communication .......................................... COMMNCTN</td>
</tr>
<tr>
<td>Computer Science....................................... COMPUTER</td>
</tr>
<tr>
<td>Counselor Education.................................... COUNSLED</td>
</tr>
<tr>
<td>Criminal Justice ......................................... CRIMIJUS</td>
</tr>
<tr>
<td>Economics.................................................. ECONOMIC</td>
</tr>
<tr>
<td>Electrical Engineering............................... ELECTENG</td>
</tr>
<tr>
<td>Engineering Physics..................................... ENGRPHYS</td>
</tr>
<tr>
<td>English .................................................... ENGLISH</td>
</tr>
<tr>
<td>Ethnic Studies............................................ ETHNSTDY</td>
</tr>
<tr>
<td>Forensic Investigation................................. FORENSIC</td>
</tr>
<tr>
<td>French ..................................................... FRENCH</td>
</tr>
<tr>
<td>General Engineering.................................... GENENG</td>
</tr>
<tr>
<td>Geography.................................................. GEOGRPHY</td>
</tr>
<tr>
<td>Geology .................................................... GEOLOGY</td>
</tr>
<tr>
<td>German ..................................................... GERMAN</td>
</tr>
<tr>
<td>History ..................................................... HISTORY</td>
</tr>
<tr>
<td>Industrial Engineering............................... INDSTENG</td>
</tr>
<tr>
<td>Industrial Studies....................................... INDSTUDY</td>
</tr>
<tr>
<td>Mathematics .............................................. MATH</td>
</tr>
<tr>
<td>Mechanical Engineering.............................. MECHNCHL</td>
</tr>
<tr>
<td>Applied Music............................................ MUAP</td>
</tr>
<tr>
<td>Music ........................................................ MUSIC</td>
</tr>
<tr>
<td>Philosophy ................................................ PHILSHPHY</td>
</tr>
<tr>
<td>Physical Science ......................................... PHSC</td>
</tr>
<tr>
<td>Physical Education and Health....................... PHYSED</td>
</tr>
<tr>
<td>Physics ..................................................... PHYSICS</td>
</tr>
<tr>
<td>Political Science ......................................... POLISCI</td>
</tr>
<tr>
<td>Psychology ................................................. PSYCHLGY</td>
</tr>
<tr>
<td>Reclamation .............................................. RECLAM</td>
</tr>
<tr>
<td>Renewable Energy ........................................ ENERGY</td>
</tr>
<tr>
<td>Social and Environmental Justice................... SEJ</td>
</tr>
<tr>
<td>Sociology .................................................. SOCIOLOGY</td>
</tr>
<tr>
<td>Software Engineering ................................... SOFTWARE</td>
</tr>
<tr>
<td>Spanish .................................................... SPANISH</td>
</tr>
<tr>
<td>Speech ..................................................... SPEECH</td>
</tr>
<tr>
<td>Teaching .................................................... TEACHING</td>
</tr>
<tr>
<td>Theatre ..................................................... THEATRE</td>
</tr>
<tr>
<td>UW-Platteville Study .................................... UWPSSTUDY</td>
</tr>
<tr>
<td>Women's and Gender Studies ......................... WOMSTD</td>
</tr>
</tbody>
</table>

Sample: GEOGRPHY 3330 3 credits

GEOGRAPHY 3330 3 credits

Environmental Conservation
The importance of natural resources to the national interest; current problems of resource allocation and use.
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: Lecture

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: Lecture
Prereqs/Coreqs: P: grade of "C" or better in ACCTING 2010

ACCTING 2030 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: Lecture
Prereqs/Coreqs: P: grade of "C" or better in ACCTING 2010

ACCTING 2040 3 credits
Federal Income Tax
Survey and practical application of federal income tax regulations and court rulings to individuals and sole proprietorships.
Components: Lecture
Prereqs/Coreqs: P: grade of "C" or better in ACCTING 2010

ACCTING 2050 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: Lecture
Prereqs/Coreqs: P: grade of "C" or better in ACCTING 2020

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: Lecture
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: Lecture
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: Lecture
Prereqs/Coreqs: P: grade of "C" or better in ACCTING 2020

ACCTING 3030 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: Lecture
Prereqs/Coreqs: P: grade of "C" or better in ACCTING 2020

ACCTING 3040 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: Lecture
Prereqs/Coreqs: P: grade of "C" or better in ACCTING 3040

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: Lecture
Prereqs/Coreqs: P: grade of "C" or better in ACCTING 3020

ACCTING 3060 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: Lecture
Prereqs/Coreqs: P: COMPUTER 1830 and grade of "C" or better in ACCTING 2020

ACCTING 3070 3 credits
Budgets and Budgetary Control
Theory and procedure of financial and operating budgets for managerial planning and controls.
Components: Lecture
Prereqs/Coreqs: P: grade of "C" or better in ACCTING 3230

ACCTING 4040 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: Lecture
Prereqs/Coreqs: P: grade of "C" or better in ACCTING 3040

ACCTING 4130 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: Lecture
Prereqs/Coreqs: P: grade of "C" or better in ACCTING 3020

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: Lecture
Prereqs/Coreqs: P: grade of "C" or better in ACCTING 3020
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCTING 4240</td>
<td>3 credits</td>
<td>Auditing II &lt;br/&gt;Concepts, procedures, and auditor judgment in the areas of internal auditing and auditing for fraud. Also includes several advanced topics of external auditing. &lt;br/&gt;Components: Lecture &lt;br/&gt;Prereqs/Coreqs: P: grade of &quot;C&quot; or better in ACCTING 4230</td>
</tr>
<tr>
<td>ACCTING 4520</td>
<td>3 credits</td>
<td>Accounting Theory &lt;br/&gt;A survey of the theory underlying financial accounting, the accounting standards setting environment, proposed alternate accounting practices, and current accounting issues and trends. &lt;br/&gt;Components: Lecture &lt;br/&gt;Prereqs/Coreqs: P: grade of &quot;C&quot; or better in ACCTING 3020</td>
</tr>
<tr>
<td>ACCTING 4940</td>
<td>1 - 4 credits</td>
<td>Special Problems &lt;br/&gt;Supervised study of selected accounting topics. &lt;br/&gt;Components: Independent Study &lt;br/&gt;Prereqs/Coreqs: P: junior standing</td>
</tr>
<tr>
<td>ACCTING 4990</td>
<td>1 - 8 credits</td>
<td>Internship &lt;br/&gt;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. &lt;br/&gt;Components: Field Studies &lt;br/&gt;Prereqs/Coreqs: P: major in accounting and junior standing</td>
</tr>
</tbody>
</table>

### Agricultural Industry Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS 1500</td>
<td>3 credits</td>
<td>Introduction to Agribusiness &lt;br/&gt;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. &lt;br/&gt;Components: Laboratory, Lecture</td>
</tr>
<tr>
<td>AGINDUS 1750</td>
<td>3 credits</td>
<td>Equipment, Structure and Power Systems &lt;br/&gt;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. &lt;br/&gt;Components: Laboratory, Lecture</td>
</tr>
<tr>
<td>AGINDUS 2330</td>
<td>3 credits</td>
<td>World Population, Food and Resources &lt;br/&gt;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. &lt;br/&gt;Components: Lecture &lt;br/&gt;GE: International Education, Social Sciences</td>
</tr>
<tr>
<td>AGINDUS 2430</td>
<td>3 credits</td>
<td>Agricultural Marketing &lt;br/&gt;Principles and organization of agricultural marketing; market functions, structure, and organizations; commodity and branded marketing. &lt;br/&gt;Components: Lecture &lt;br/&gt;Prereqs/Coreqs: P: AGINDUS 1500</td>
</tr>
<tr>
<td>AGINDUS 2450</td>
<td>1 credit</td>
<td>Agribusiness Professional Development I &lt;br/&gt;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. &lt;br/&gt;Components: Lecture</td>
</tr>
<tr>
<td>AGINDUS 2500</td>
<td>3 credits</td>
<td>Producer and Consumer Cooperatives &lt;br/&gt;Development, principles, legal basis, organization, finance, taxation, and management of agricultural, consumer, and industrial cooperatives. &lt;br/&gt;Components: Lecture &lt;br/&gt;Prereqs/Coreqs: P: AGINDUS 1500</td>
</tr>
<tr>
<td>AGINDUS 2920</td>
<td>2 credits</td>
<td>Introduction to Agricultural and Extension Education &lt;br/&gt;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. &lt;br/&gt;Components: Lecture</td>
</tr>
<tr>
<td>AGINDUS 3410</td>
<td>3 credits</td>
<td>Agricultural Consulting and Sales &lt;br/&gt;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. &lt;br/&gt;Components: Lecture &lt;br/&gt;Prereqs/Coreqs: P: AGINDUS 1500</td>
</tr>
<tr>
<td>AGINDUS 3420</td>
<td>3 credits</td>
<td>Agricultural Finance &lt;br/&gt;Capital and credit needs of farmers, agencies supplying credit needs, farm loan analysis, budgeting and capital investment analysis. &lt;br/&gt;Components: Lecture &lt;br/&gt;Prereqs/Coreqs: P: AGINDUS 1500 and ACCTING 2010</td>
</tr>
</tbody>
</table>
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: Lecture
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: Lecture
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: Laboratory, Lecture
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: Lecture
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: Lecture
Prereqs/Coreqs: P: AGINDUS 1500

AGINDUS 3530 3 credits

Agricultural Commodity Marketing
Current marketing trends and problems, futures marketing and forward contracting, bargaining, international trade, current marketing issues of selected agricultural commodities.

Components: Lecture
Prereqs/Coreqs: P: AGINDUS 2430 or BUSADMIN 3620

AGINDUS 3830 3 credits

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.

Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGINDUS 1750 or consent of instructor

AGINDUS 3850 3 credits

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.

Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGINDUS 1750 or consent of instructor

AGINDUS 3900 3 credits

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 FFA Program of Activities.

Components: Lecture

AGINDUS 3950 3 credits

Soil and Water Conservation Engineering
Land description and characteristics of watersheds. Design, layout, and construction of waterways, diversions, terraces, and earthen structures.

Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGINDUS 1750 or AGSCI 2230 or RECLAM 1010 or consent of instructor

AGINDUS 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 in movement or how they have impacted the opposing movement.

Components: Discussion, Lecture
Cross Offerings: AGSCI 4120
Prereqs/Coreqs: junior standing
AGINDUS 4330 3 credits
**Agribusiness Marketing Management**
Development of a marketing plan; review and work with media; advertising and promotional programs; merchandising strategies; financial market and demographic research and analysis; pricing and product strategies for agricultural (food and inputs) products.

Components: Lecture
Prereqs/Coreqs: P: AGINDUS 1500 and AGINDUS 2430

AGINDUS 4400 3 credits
**Livestock and Meat Marketing**
Economic analysis of principles and methods of marketing, evaluating, and pricing meat animals, and the marketing and merchandising of meat and meat products for the beef, pork and poultry industries.

Components: Lecture
Prereqs/Coreqs: P: AGINDUS 1500 and AGINDUS 2430

AGINDUS 4460 3 credits
**Agricultural Policy Seminar**
The making of Agricultural, Food, Rural, and Environmental Policy including history, process, political dynamics, and players; the current state of legislative developments; and an evaluation of the economic, environmental, and social impacts of current and alternative policy.

Components: Seminar
Prereqs/Coreqs: P: AGINDUS 1500

AGINDUS 4500 3 credits
**Agribusiness Management**
Management of the agribusiness firm including planning, organizing, coordinating, control and communication. Special emphasis is given to learning and decision-making through case studies including financial analysis, investments, organizational structure, etc.

Components: Lecture
Prereqs/Coreqs: P: AGINDUS 1500

AGINDUS 4580 3 - 6 credits
**Agricultural Business Internship**
Supervised program of study in cooperation with agricultural industries and public agencies for credit in all majors.

Components: Field Studies
Prereqs/Coreqs: P: 30 credits and 2.00 GPA

AGINDUS 4590 1 - 3 credits
**Individual Study in the Agricultural Industries**
Advanced study on a particular topic or problem in the area of specialization within the agricultural industries.

Components: Independent Study

AGINDUS 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 Offerings: AGSCI 4600
GE: International Education

AGINDUS 4620 2 credits
**Agricultural Commodity Price Forecasting**
Analyze basic commodity price fluctuations. The three major approaches include technical, fundamental, and behavioral analyses. Primary emphasis involves charting theory.

Components: Lecture
Prereqs/Coreqs: P: AGINDUS 1500, AGINDUS 2430, and AGINDUS 3530

AGINDUS 4690 3 credits
**Hydraulics and Machinery Engineering**
Hydraulic principles, components, and systems. Management, operation, adjustment, and maintenance of agricultural machinery.

Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGINDUS 1750 or consent of instructor

AGINDUS 4790 3 credits
**Materials Handling and Energy Seminar**
Principles and applications of handling agricultural products. Sales, service, employment opportunities, and special problems relating to agricultural, environmental, and energy systems.

Components: Laboratory, Seminar

AGINDUS 4890 3 credits
**Structures and Environmental Control**
Planning and construction of agricultural buildings with respect to functions, aesthetic and environmental aspects; construction components; material utilization; moisture and heat transmission; ventilation system design; and physiological effects of environment on animals and crops.

Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGINDUS 1750 or consent of instructor

AGINDUS 4930 3 credits
**Teaching Cooperative Education in Agriculture**
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.

Components: Lecture
Prereqs/Coreqs: P: AGINDUS 3900 or senior standing

AGINDUS 4990 1 - 3 credits
**Independent Study in Equipment, Structure and Power Systems**
Advanced study in an area of specialization.

Components: Independent Study
Prereqs/Coreqs: P: Junior standing
Agricultural Science Courses

AGSCI 1000  3 credits
**Introduction to Animal Science**
The organization and structure of the nation’s livestock and poultry industries; the variety and nature of animal food products; the biological uniqueness of farm animals; profitable management practices as they apply to commercial animal production.
Components: Lecture

AGSCI 1200  2 credits
**Animal Science Management**
The performance and management skills necessary to manage productive livestock enterprises. Students will learn techniques necessary in production agriculture.
Components: Lecture
Prereqs/Coreqs: P: freshman or sophomore standing or consent of instructor

AGSCI 1240  3 credits
**The Plant-Soil Environment**
This class introduces students to the basic 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.
Components: Laboratory, Lecture

AGSCI 1260  3 credits
**Crop Science**
Basic principles of crop production which include classification and identification, morphology, anatomy, physiology, climatology, plant-soil interrelationships, cultural practices, harvesting, cropping systems, and management.
Components: Lecture

AGSCI 2000  3 credits
**Meat and Animal Evaluation**
The evaluation of beef, dairy-beef, sheep, and swine market animals for carcass merit; utilizing performance records in the evaluation and selection of breeding animals.
Components: Laboratory, Lecture

AGSCI 2020  3 credits
**Introduction to Dairy Science**
Selection, feeding, and care of dairy cattle.
Components: Lecture

AGSCI 2030  3 credits
**Introduction to Food Science**
The organization and structure of the nation’s food industry. The nature and value of the major food groups, physical and chemical properties of various foods, processing technology, food safety, and quality assurance.
Components: Laboratory, Lecture

AGSCI 2050  3 credits
**Dairy Cattle Evaluation**
Problems in evaluating dairy cattle, emphasizing utility as well as show ring requirements. Students will familiarize themselves with alternative evaluation methods.
Components: Lecture

AGSCI 2230  4 credits
**Soils**
Origin, nature, and environment for plants; productivity as influenced by soil, cropping system, and management.
Components: Laboratory, Lecture

AGSCI 2280  3 credits
**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: Lecture
Prereqs/Coreqs: P: AGSCI 1240 or BIOLOGY 1350 or consent of instructor

AGSCI 2600  3 credits
**Companion Animal Care and Management**
Basic principles and practices of companion animals will be discussed. Application of knowledge and theories to actual case studies will be expected. A service learning project will be required of each student. Topics include defining companion animals, feeding and nutrition, reproductive biology, animal behavior and health.
Components: Lecture
Prereqs/Coreqs: sophomore standing to enroll in this class

AGSCI 3000  4 credits
**Animal Nutrition**
Practical application of nutrition principles to livestock feeding; the characteristics of feeds; practice in formulating rations and studies of their relative economy in the management of herds and flocks.
Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGSCI 1000 and either CHEMSTRY 1050 or CHEMSTRY 1140

AGSCI 3010  3 credits
**Dairy Product Analysis and Processing**
The testing of milk and dairy products; elements of the manufacture of various dairy products in relation to quality milk production on the farm.
Components: Laboratory, Lecture
Prereqs/Coreqs: P: CHEMSTRY 1050 or CHEMSTRY 1140

AGSCI 3020  3 credits
**Anatomy and Physiology of Domestic Animals**
The anatomy and physiology of farm animals.
Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGSCI 1000
AGSCI 3030  
**Genetics of Livestock Improvement**  
Qualitative and quantitative genetics and their application to the breeding and improvement of domestic animals.  
Components: Lecture  
Prereqs/Coreqs: P: BIOLOGY 1150 or BIOLOGY 1350 or BIOLOGY 1650

AGSCI 3040  
**Principles of Meat Science**  
Structure and composition of skeletal and connective tissue; post mortem changes affecting meat quality and characteristics.  
Components: Laboratory, Lecture  
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: Lecture

AGSCI 3120  
**Topics in Animal Health**  
Discusses farm animal diseases specific for this area along with diseases controlled by governmental regulations. Field trips both on farms and at the university farm will demonstrate post mortems, surgery, physical exams, and other problems of farm animals. Reproduction and mastitis in dairy cows will be covered in lectures and field trips.  
Components: Lecture

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, Lecture  
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, Lecture  
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, Lecture  
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: Lecture  
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, Lecture  
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, Lecture  
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, Lecture  
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, Lecture  
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  3 credits

Landscape Management
The theories and practices that support horticultural principles as applied to the management of plants and landscapes in the Midwest will be discussed. Topics include landscape design and grounds management, pruning, irrigation and nutrient management, integrated pest management as well as marketing landscape services, and estimating and preparing job bids. (Fall)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGSCI 2280 or consent of instructor

AGSCI 3330  3 credits

Soil Morphology and Classification
Morphology and classification of soils, interpreting and using soil survey information, describing and mapping soil properties.
Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGSCI 2230

AGSCI 3340  3 credits

Nutrient Management in Agriculture
Agriculture as it affects and is affected by the quality of our environment.
Components: Lecture
Prereqs/Coreqs: P: AGSCI 1240 or AGSCI 2230 or consent of instructor

AGSCI 3350  3 credits

Soil Fertility and Fertilizers
In-depth exploration of the physical, chemical, and biological properties of soils in relation to productivity and management. Discussion of the use, composition, and production of soil amendments including lime, fertilizers, and manure. Laboratory techniques for soil testing and interpretations of soil test results.
Components: Laboratory, Lecture
Prereqs/Coreqs: P:AGSCI 2230 and CHEMSTRY 1050 or CHEMSTRY 1140 or CHEMSTRY 1450

AGSCI 3360  3 credits

Greenhouse Operation and Management
The basic principles and practices involved in the production and marketing of commercial greenhouse flower crops, foliage plants, and bedding plants.
Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGSCI 1240 or AGSCI 2230 or consent of instructor

AGSCI 3370  1 - 3 credits

Undergraduate Research in Ornamental Horticulture
Students conduct research projects with faculty in Ornamental Horticulture or Plant Biotechnology.
Components: Independent Study
Prereqs/Coreqs: P: AGSCI 1240 or BIOLOGY 1350 or consent of instructor.

AGSCI 3380  1 - 3 credits

Special Problems in Soil Science
Individual study in specialized areas of soils.
Components: Independent Study
Prereqs/Coreqs: P: AGSCI 2230

AGSCI 3390  1 - 3 credits

Special Problems in Crop Science
Crop experimentation or research interpretation in breeding, physiology, crop production, or crop chemicals.
Components: Independent Study
Prereqs/Coreqs: P: AGSCI 1240 or consent of instructor

AGSCI 3400  1 - 3 credits

Special Topics in Ornamental Horticulture
Discussion of contemporary topics relevant to the field of Ornamental Horticulture.
Components: Independent Study
Prereqs/Coreqs: P: AGSCI 1240 or BIOLOGY 1350 or consent of instructor

AGSCI 3600  3 credits

Ration Formulation/Evaluation
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.
Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGSCI 3000

AGSCI 4030  4 credits

Beef Management
Management principles of beef production including selection, feeding, marketing, reproduction, and promotion.
Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGSCI 3000 or consent of instructor

AGSCI 4040  4 credits

Swine Management
The management principles and practices of the pork industry which include selection, feeding, breeding, reproduction, housing, disease control, and handling are discussed and demonstrated. The student is introduced to the organizational structure, economic realities and production trends current in the industry.
Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGSCI 3000 or consent of instructor

AGSCI 4070  4 credits

Dairy Cattle Management
Principles and problems involved in dairy cattle management. Emphasis will be placed on actual involvement in making managerial decisions.
Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGSCI 2020 and AGSCI 3000 or consent of instructor

AGSCI 4080  3 credits

Ruminant Nutrition
Anatomy and physiology of the ruminant gastrointestinal tract; the digestion, absorption, metabolism, utilization, and biochemical functions of nutrients as applied to ruminants.
Components: Lecture
Prereqs/Coreqs: P: AGSCI 3000
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: Lecture
Prereqs/Coreqs: P: AGSCI 3000

AGSCI 4110 4 credits

**Reproductive Physiology of Domestic Animals**

This course discusses the anatomy, physiology and basic endocrinology of the reproductive processes in domestic livestock, companion animals, and poultry. Reproductive similarities and differences in humans will also be discussed. Methods available for enhancing or controlling reproductive processes in mammals will be discussed including the use of artificial insemination, estrous synchronization, embryo transfer, and reproductive biotechnology. The effects of environment, nutrition, and disease will also be examined for their influences on reproduction.

Components: Laboratory, Lecture
Prereqs/Coreqs: P: BIOLOGY 1150 or BIOLOGY 1650 or BIOLOGY 1750 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, Lecture
Cross Offerings: AGINDUS 4120
Prereqs/Coreqs: junior standing

AGSCI 4130 3 credits

**Mammalian Endocrinology**

The structural and functional classification of hormones, principles of hormone action, and the regulation of body functions by the endocrine system with emphasis on homeostasis.

Components: Lecture
Cross Offerings: BIOLOGY 4130
Prereqs/Coreqs: P: BIOLOGY 1650 or AGSCI 4110 and CHEMSTRY 1240 or consent of instructor

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, Lecture
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: Lecture
Prereqs/Coreqs: P:BIOLOGY 1150 or BIOLOGY 1650 or BIOLOGY 1750 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.

Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGSCI 3000 or consent of instructor

AGSCI 4190 3 credits

**Seminar in Animal Science**

A portion of this course will build on the students 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: Lecture
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, Lecture
  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 planters, common propagation and production techniques, plant quality evaluation plus design, installation and maintenance of plants in interior settings.
  Components: Laboratory, Lecture
  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, Lecture
  Prereqs/Coreqs: P: AGSCI 1240 or AGSCI 1000 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, pastureage, and silage.
  Components: Laboratory, Lecture
  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, Lecture
  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, Lecture
  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, Lecture
  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 Offerings: AGINDUS 4600
  GE:  International Education

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: Lecture

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: Lecture
  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: Lecture
  GE:  Fine Arts

ART 1410  3 credits

Painting I: Beginning Painting
Preparations for painting stressing the tools, techniques and principles of painting.
  Components: Lecture

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: Lecture
ART 1520 3 credits
Basic Design II: 3-D
Introduction to the elements of three dimensional visual arts. For first year art majors.
Components: Lecture

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: Lecture

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: Lecture
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: Lecture
GE: Fine Arts

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: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
GE: Fine Arts

ART 2500 1 - 3 credits
Topics in Art
The study of selected topics common to visual art discipline s. The topic to be covered will be identified in the course title.
Components: Lecture

ART 2510 3 credits
Sculpture I: Basic
Introduction to the concepts and media of three dimensional art.
Components: Lecture
Prereqs/Coreqs: P: ART 1520

ART 2520 3 credits
Ceramics I
Hand and wheel methods in clay production, glazing and firing.
Components: Lecture

ART 2620 3 credits
Ceramics II
Continuation of Art 2520, stressing use of the pottery wheel.
Components: Lecture
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: Lecture
Prereqs/Coreqs: P: ART 1420
ART 2730  
*Art History IV: Ethnic Art in the United States*  
3 credits  
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: Lecture  
Cross Offerings: ETHNSTDY 2730  
GE: Ethnic Studies, Fine Arts  

ART 2740  
*Graphic Design II: Introduction to Design Studio*  
3 credits  
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: Lecture  
Prereqs/Coreqs: P: ART 2710 and ART 1740  

ART 2750  
*Native American Art*  
3 credits  
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: Lecture  
Cross Offerings: ETHNSTDY 2750  
GE: Ethnic Studies, Fine Arts  

ART 2770  
*Crafts I: Fibers and Fabrics*  
2 credits  
Construction using fiber and fabrics; fabric making, and decorating; weaving, printing and related media.  
Components: Lecture  

ART 3020  
*Studies in Art I*  
1 - 3 credits  
Concentrated study in the specific area of studio, which is indicated in the current class schedule. May be repeated under different headings.  
Components: Lecture  

ART 3030  
*Studies in Art II*  
3 credits  
Concentrated study in a specific area of art which is indicated in the current class schedule. May be repeated under different headings.  
Components: Lecture  

ART 3220  
*Printmaking I*  
3 credits  
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, Lecture  

ART 3310  
*Drawing III: Figure Drawing*  
3 credits  
Drawing the human figure with emphasis on anatomy, structure, composition, and form.  
Components: Lecture  
Prereqs/Coreqs: P: ART 1010 and ART 2310  

ART 3320  
*Printmaking II*  
3 credits  
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  
*Art History III: Modern*  
3 credits  
The history of modern art from Realism to the present showing the development of the important ideas and styles in art and architecture.  
Components: Lecture  
GE: Fine Arts  

ART 3440  
*Painting III: Figure Painting*  
3 credits  
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: Lecture  
Prereqs/Coreqs: P: ART 2410 and ART 3310  

ART 3510  
*Sculpture II: Intermediate*  
3 credits  
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: Lecture  
Prereqs/Coreqs: P: ART 2510  

ART 3520  
*Art History V: Far Eastern Art*  
3 credits  
A survey of the art of China, India and Japan.  
Components: Lecture  
GE: Fine Arts, International Education  

ART 3610  
*Crafts II: Jewelry*  
2 credits  
Basic techniques in jewelry design and production.  
Components: Lecture  

ART 3740  
*Graphic Design V: History and Systems*  
3 credits  
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: Lecture
ART 3800  
**Ceramics III: Advanced**  
Advanced work in clay construction, stressing individual projects.  
Components: Lecture  
Prereqs/Coreqs: P: ART 2520 and ART 2620  

3 credits

ART 3910  
**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: Lecture  
Prereqs/Coreqs: P: ART 2710 and ART 2740 and ART 1740  

3 credits

ART 4030  
**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: Lecture  
Prereqs/Coreqs: P: ART 2740  

3 credits

ART 4230  
**Theory of Art**  
A survey of the theory of art with an emphasis on contemporary ideas.  
Components: Lecture  
GE: Fine Arts  

3 credits

ART 4310  
**Drawing IV: Intermediate Drawing**  
Drawing IV students will learn to expand visual awareness and develop their control of drawing as a tool for research and invention. Drawing problems from simple structural analysis to more sophisticated exploration of subject matter and finally to individual interpretation. Drawing media applications and exercises are expanded in this intermediate level class.  
Components: Lecture  
Prereqs/Coreqs: P: ART 3310  

3 credits

ART 4340  
**Drawing V: Perspective Drawing**  
Detailed studies of ways in which principles of perspective are used to represent objects in space.  
Components: Lecture  

3 credits

ART 4400  
**Painting IV: Advanced Painting**  
A continuation of ART 2410 and ART 3440.  
Components: Lecture  
Prereqs/Coreqs: P: ART 3440  

3 credits

ART 4460  
**Painting VI: Watercolor**  
An introduction to various methods of water color painting.  
Components: Lecture  

3 credits

ART 4510  
**Sculpture III: Advanced, Materials and Techniques**  
Advanced work in sculpture with special emphasis on the casting of metal sculpture and foundry methods, techniques and preparations for casting.  
Components: Lecture  
Prereqs/Coreqs: P: ART 2510 and ART 3510  

3 credits

ART 4530  
**Art Education I: Elementary and Middle School Methods**  
Teaching of art on the elementary and middle school level. A study of physical plants, supplies, and unit plans. (For students majoring in art education)  
Components: Lecture  

3 credits

ART 4630  
**Art Education II: Middle and High School Methods**  
A continuation of Art 4530 with an emphasis on the teaching and supervision of art in middle and high school. (For students majoring in art education) Should be taken simultaneously with Teaching 3910.  
Components: Lecture  
Prereqs/Coreqs: P: junior standing  

3 credits

ART 4640  
**Drawing VI: Advanced Drawing**  
Advanced problem-solving in drawing requiring high degree of visual refinement with emphasis on understanding media potential. Use of still life and figure forms in studio. Further investigation of principles concerning complex forms and light with the use of advanced media. Independent studio work component.  
Components: Lecture  
GE: Fine Arts  
Prereqs/Coreqs: P:ART 2310  

3 credits

ART 4660  
**Cooperative Field Experience**  
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and department.  
Components: Field Studies  

1 - 8 credits

ART 4800  
**Painting V: Materials and Techniques of Painting**  
Technical exploration of art media and materials used in painting and drawing applications. Traditional and contemporary methods for creating art media and tool use. Conservation and restoration issues investigated. Lecture and studio assignment instruction format.  
Components: Lecture  
Prereqs/Coreqs: P: ART 1720 and 4 credits in 3000 or above level art courses  

3 credits

ART 4810  
**Independent Work in Crafts**  
Independent creative work in craft areas chosen by the student.  
Components: Independent Study  

2 - 3 credits
ART 4820  2 - 3 credits
**Independent Work in Design**
Advanced work on design projects chosen by the student.
Components: Independent Study
Prereqs/Coreqs: P: ART 1420 and ART 1520

ART 4830  2 - 3 credits
**Independent Work in Printmaking**
Advanced work in printmaking media elected by the student.
Components: Independent Study
Prereqs/Coreqs: P: ART 3220

ART 4840  2 - 3 credits
**Independent Work in Drawing**
Drawing as an independent creative medium.
Components: Independent Study
Prereqs/Coreqs: P: ART 2310

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: Lecture

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: Lecture
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, Lecture
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, Lecture
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, Lecture
Prereqs/Coreqs: P: Biology or related major
Applications to health and physical education.

Cardiovascular, lymphatic, urinary, and reproductive systems.

Continued study of the structure and function of the human body including the sensory, endocrine, digestive, respiratory, muscular and nervous systems.

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, Lecture
Prereqs/Coreqs: P: BIOLOGY 2140 (grade of "C" or better required)

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, Lecture
GE: Natural Science

BIOLOGY 2340

3 credits

Fundamentals of Biological Investigations

This course illustrates the process of science from a biological perspective. Students will learn to design, execute, analyze, and present biological research. Through a combination of readings, discussions, projects, lab exercises, and field work students will experience the challenges and rewards of acquiring biological information. (Fall, Spring)

Components: Laboratory, Lecture
Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 and ENGLISH 1130 and ENGLISH 1230

BIOLOGY 2420

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, Lecture
Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor

BIOLOGY 2450

4 credits

Prereqs/Coreqs: P:BIOLOGY 1350 or (BIOLOGY 1650 and BIOLOGY 1750). C: SPEECH 1010, BIOLOGY 3450 recommended

BIOLOGY 2640

4 credits

Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor
BIOLOGY 3030  
Ornithology  
Anatomy, physiology, life histories, and ecology of birds.  
Laboratory study and field trips emphasize identification of local species.  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: BIOLOGY 1750 and BIOLOGY 2420 or consent of instructor

BIOLOGY 3040  
Comparative Anatomy of the Vertebrates  
Comparative studies of organs and systems of Vertebrata; includes laboratory dissections of shark, necturus, and cat.  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: (BIOLOGY 2140 and BIOLOGY 2240) or BIOLOGY 2340 or consent of instructor

BIOLOGY 3120  
Animal Tissue Culture  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: one college level biology and chemistry course or consent of instructor

BIOLOGY 3140  
Vertebrate Embryology  
Lecture and laboratory study of amphibian, avian, and mammalian embryology.  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor

BIOLOGY 3230  
Mammalogy  
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, Lecture  
Prereqs/Coreqs: P: BIOLOGY 1750 and BIOLOGY 2420 or consent of instructor

BIOLOGY 3240  
Microbiology  
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, Lecture  
Prereqs/Coreqs: P: BIOLOGY 1650 or BIOLOGY 1750 and CHEMISTRY 1140 or consent of instructor

BIOLOGY 3330  
Genetics  
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, genetic therapy, criminalistics and genetic engineering are also explored.  
Components: Lecture  
Prereqs/Coreqs: P: BIOLOGY 1650 or consent of instructor

BIOLOGY 3340  
Entomology  
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, Lecture  
Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor

BIOLOGY 3450  
Ecology and Evolution  
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: Lecture  
Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor

BIOLOGY 3460  
Ecological Methods and Research  
This class supplements BIOLOGY 3450 Ecology and Evolution and further explores the major principles, techniques, and approaches in ecology. This course will explore ecology in the field and laboratory with the goal of enabling students to plan, execute, and scrutinize ecological research and appreciate how science and research fit into ecology. (Fall)  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: BIOLOGY 1650 and BIOLOGY 1750 and BIOLOGY 2420; C: BIOLOGY 3450 or consent of instructor

BIOLOGY 3530  
Biotechnology  
Genetic elements that control gene expression. Procedures for creating and isolating cloned genes. Genetic engineering and uses of recombinant DNA.  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: one college level biology and chemistry course or consent of instructor
**Morphology and Evolution of Vascular Plants**
This broad course covers the structure or form (morphology) of the adult plant, its tissues, development and reproductive details, as well as the ecology, evolutionary history, and taxonomy of the group in which it is classified. Focus will be given to all phyla of extant vascular plants and major groups of extinct vascular plants, presenting the organisms from an evolutionary perspective. (Spring, odd years)

Components: Laboratory, Lecture
Prereqs/Coreqs: P:BIOLOGY 1350 or (BIOLOGY 1650 and BIOLOGY 1750)

**Immunology**
The basic concepts of immunology. The normal and abnormal immune response.

Components: Lecture
Prereqs/Coreqs: P: one college level biology and chemistry course

**Plant Communities of Wisconsin**
This course provides an introduction to the major plant communities of Wisconsin and neighboring states. It emphasizes the identification, biogeographic distribution, interrelationships, conservation and management of the major regional plant communities as well as their key plant species. Two extended weekend field trips are required. (Fall)

Components: Laboratory, Lecture
Prereqs/Coreqs: P:BIOLOGY 1650 and 1750 or BIOLOGY 1350 or consent of instructor; recommended: BIOLOGY 3450

**Animal Communities of Wisconsin**
A survey of animals specific to, and characteristic of, Wisconsin’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, Lecture
Prereqs/Coreqs: P: BIOLOGY 1750

**Freshwater Biology**
Examination of the physical components and biological communities of lakes, streams, and wetlands and the relationships between them. Integration of fieldwork, scientific literature, and laboratory analyses.

Components: Laboratory, Lecture
Prereqs/Coreqs: P: BIOLOGY 1750 and BIOLOGY 2420 and (CHEMISTRY 1050 or CHEMISTRY 1140) or consent of instructor; BIOLOGY 3450 recommended

**Workshop in Biology**
Varying topics. Does not count toward major or minor in Biology or minor in Biotechnology.

Components: Lecture
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 prossected 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, Lecture
Prereqs/Coreqs: P: BIOLOGY 1350 (or BIOLOGY 1650 & BIOLOGY 1750) AND at least one additional 2000+ level biology or plant-related course or consent of instructor; C: junior standing

BIOLOGY 4660 1 - 8 credits

Biology Internship Experience
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry, or institution. The nature of the assignment, type of experience, number of credits, and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and department. Does not count toward a major or a minor in biology.
Components: Field Studies

BIOLOGY 4710 1 - 3 credits

Selected Regional Habitats
Offers a first-hand introduction to the flora and fauna of selected unusual habitats in the form of an interim field trip. Up to three credits can be counted toward a biology major.
Components: Field Studies
Prereqs/Coreqs: P:BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor

BIOLOGY 4920 1 - 3 credits

Independent Research in Biology
Individual specialized study.
Components: Independent Study
Prereqs/Coreqs: P: approval of the biology department chairperson and faculty advisor before registration. Up to two credits can be counted toward a biology major. Junior or senior standing

BIOLOGY 4970 1 credit

Senior Thesis
This course provides students a unique, “capstone” opportunity to conduct research in collaboration with their peers and integrate knowledge from the different areas of biology. With assistance from a faculty coordinator, students from all areas of biology will work together to complete their individual independent research projects. Students will produce a manuscript-quality report and make a formal presentation on their research. (Fall, Spring)
Components: Lecture
Prereqs/Coreqs: P: Biology major with senior standing and BIOLOGY 4920

BIOLOGY 4990 1 credit

Capstone Course: From Atoms to Ecosystems - The Study of Life
This course is an exciting opportunity for students to integrate knowledge from the different areas of biology and associated disciplines to an interrelated whole, the study of life. In this endeavor, students will be applying their knowledge to current scientific and bioethical issues in biology. Students will also explore and reflect on what it means to be a biologist. (Fall, Spring)
Components: Lecture
Prereqs/Coreqs: P: Biology major with senior standing

Business Administration Courses

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: Lecture
GE: International Education

BUSADMIN 2330 3 credits

Leadership and Management
An introduction to the role of management through discussion of the planning, organizing, leading, and controlling functions. Behavioral, quantitative, and qualitative aspects of managerial decision making are explored.
Components: Lecture

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, 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: Lecture
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: Lecture

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, health and safety, 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: Lecture
Prereqs/Coreqs: P: BUSADMIN 2330 or AGINDUS 1500

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: Lecture
Prereqs/Coreqs: P: BUSADMIN 3030

BUSADMIN 3110 3 credits

Integrated Marketing
An examination of the concepts, strategies, and applications involved in direct marketing including mail order and direct response advertising. Measurability, accountability, lists, data, and the integration of direct marketing programs into total marketing efforts and overall organization goals and functions are discussed.

Components: Lecture
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: Lecture
Prereqs/Coreqs: P: BUSADMIN 2630 or AGINDUS 2430

BUSADMIN 3130 3 credits

The Legal Environment of Business
This is a study of the legal and ethical environment of business and its effects on business decisions. The course includes the substantive areas of contract law, tort, criminal law, government regulation, employment law, consumer protection, antidiscrimination, environmental law and securities law. We will also examine the ethical implications of legal disputes in business.

Components: Lecture

BUSADMIN 3140 3 credits

Managerial Law
This course is a continuation of BUSADMIN 3130, Legal Environment of Business. Course coverage includes property, wills, trusts, and estates, agency, business organizations, secured transactions and bankruptcy, and commercial paper.

Components: Lecture
Prereqs/Coreqs: P: BUSADMIN 3130

BUSADMIN 3150 3 credits

Principles of Real Estate
Classification and acquisition of property rights, types of estates in property, relation of landlord and tenant, conveyancing, liens and mortgages, real estate brokerage.

Components: Lecture
Prereqs/Coreqs: P: BUSADMIN 3130 or consent of instructor

BUSADMIN 3230 3 credits

Small Business Management
This course acquaints the student with many aspects of owning and operating a small business. Topics covered include the characteristics of small business managers, planning and organizing for a new or an ongoing business, staffing a business, producing and marketing a product or service, profit planning and control, security, and the specifics of developing a business plan.

Components: Lecture
Prereqs/Coreqs: P: BUSADMIN 2630 or AGINDUS 2430

BUSADMIN 3240 3 credits

E-Commerce and E-Marketing in Today’s World
This course will cover how a business can market its products, services and ideas using Internet technology. Topics will include—but will not be limited to—e-commerce as part of the marketing mix, search engine optimization, selling through the Internet, social networking, blogs, measuring results of the e-commerce strategy and email as permission marketing. (Every other Fall)

Components: Discussion, Lecture
Prereqs/Coreqs: P: BUSADMIN 2630 or AGINDUS 2430

BUSADMIN 3330 3 credits

Labor Law
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.

Components: Lecture
Prereqs/Coreqs: P: BUSADMIN 3030

BUSADMIN 3340 3 credits

Management, Gender & Race
This course reviews the changing nature of management and explains why gender and race/ethnicity have become important concerns of business. It examines the status of women and people of color in managerial or administrative positions and discusses socialization processes, stereotypes, equal employment opportunity laws, diversity management, illegal harassment, and power in organizations. Networking, mentoring, work/life balance, and career planning also are addressed.

Components: Lecture
Cross Offerings: WOMSTD 3340, ETHNSTDY 3340
GE: Ethnic and Gender
Prereqs/Coreqs: P: BUSADMIN 2330 or AGINDUS 1500 or junior standing

201
BUSADMIN 3400 3 credits

**Personal Financial Planning**
A study of the major financial decisions encountered by individuals. The course explores a variety of consumer problems found in a modern, complex economy. Subjects covered include the financial planning process, money management, consumer borrowing, insurance planning, budgeting, investments, and retirement and estate planning.
Components: Lecture
Prereqs/Coreqs: junior standing

BUSADMIN 3430 3 credits

**Risk Management**
This course covers the theory of risk and introduces the basic concepts of risk management. Special emphasis is placed on risk transfer to insurance companies. The course also introduces basic insurance concepts for both the individual and corporate consumers because risk management decisions presuppose a thorough understanding of the nature and functions of insurance.
Components: Lecture
Prereqs/Coreqs: junior standing

BUSADMIN 3450 3 credits

**Employment Law**
An analysis of employment relations legislation and its impact on areas of human resource management. Primary emphasis on employment discrimination and affirmative action, unemployment compensation, and workers compensation, the Fair Labor Standards Act, OSHA, and ERISA.
Components: Lecture
Prereqs/Coreqs: P: BUSADMIN 3030

BUSADMIN 3500 3 credits

**Employee Training and Development**
Employee Training and Development is an upper-division course that examines the principles and practices of these two critical processes in a variety of organizational settings. The course presents a comprehensive overview of training and development topics. Throughout the course students acquire and then demonstrate a knowledge base in each of these areas. At the end of the course, students are prepared to conduct efficient and effective training and development programs within the Human Resources department of an organization.
Components: Lecture
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: Lecture
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: Lecture
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: Lecture
Prereqs/Coreqs: P: BUSADMIN 2330

BUSADMIN 3620 3 credits

**Financial Management**
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: Lecture
Prereqs/Coreqs: P: a “C” or better in ACCTING 2010 and completion of university math requirement

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: Lecture
Prereqs/Coreqs: P: BUSADMIN 3620

BUSADMIN 3700 3 credits

**Marketing Research**
Introduction to the research problem and the scientific method; research design and sources, evaluation of data, and presentation of research findings.
Components: Lecture
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: Lecture
Prereqs/Coreqs: P: BUSADMIN 3620

BUSADMIN 3720 3 credits

International Marketing
A conceptual focus on the breadth of the international marketing management area including problems, strategies and techniques, plus a survey background in such environmental factors as legal, cultural, economic, financial, and regional characteristics. The purpose is to prepare students and practicing business managers for successful operations in the world marketing environment of developing, industrial, and/or technological nations.

Components: Lecture
Prereqs/Coreqs: P: BUSADMIN 2630 or AGINDUS 2430

BUSADMIN 3740 3 credits

Consumer Behavior
Consumer behavior reaches for a better understanding of the consumer buying process. It begins with an examination of basic, standard steps that consumers take while making a purchasing decision and moves into consumer motives based on various consumer cohorts. The marketing student -- after having studied consumer behavior -- will have a stronger appreciation for the basis of consumer needs and will be better prepared to serve them.

Components: Lecture
Prereqs/Coreqs: P: BUSADMIN 2630 or AGINDUS 2430

BUSADMIN 3750 1 - 3 credits

International Short Study
The International Term Short Study course abroad is designed to help students develop an understanding of the world’s economies, the globalization of technology, capital, industries, systems, goods, services, and inputs that have enhanced 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.

Components: Lecture
GE: International Education

BUSADMIN 3820 3 credits

Professional Selling
A study of the principles, techniques, and practices involved in selling products, services, and ideas to final consumers and organizational buyers. The selling processes used by manufacturers, distributors, and direct marketers are considered. Changes in the selling environment due to global marketing and international sales are discussed. Several sales presentations are required.

Components: Lecture
Prereqs/Coreqs: P: SPEECH 1010 or SPEECH 1250

BUSADMIN 3830 3 credits

Sales Management
A study of the role of sales management in the total marketing structure examines the role of sales manager and how this role serves the sales department and the company. Recruiting, selection, training, motivation leadership, compensation plans, and sales forecasting are studied with focus on the administration of these functions. Evaluation and performance appraisal of the sales force are also included. The course considers the many aspects of international selling and training salespersons for global territories.

Components: Lecture
Prereqs/Coreqs: P: BUSADMIN 2630 or AGINDUS 2430

BUSADMIN 3930 3 credits

Investments
A contemporary study of investments with a focus on past and present investment decision making, sources of information, stock investing, modern portfolio theory, and mutual fund creation and selection.

Components: Lecture
Prereqs/Coreqs: P: BUSADMIN 3620

BUSADMIN 4030 3 credits

Financial Decision Making
An analysis of actual problems encountered by financial managers from major firms. This course utilizes the case study methodology and requires heavy usage of computer application skills, particularly spreadsheet skills. The goal is to identify the problem, analyze it, and finally make a well-justified recommendation to the firm.

Components: Lecture
Prereqs/Coreqs: P: BUSADMIN 3620

BUSADMIN 4100 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: Lecture
Prereqs/Coreqs: P: ECONOMIC 2410 or MATH 1830 or MATH 4030 or consent of instructor

BUSADMIN 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. (Fall)

Components: Lecture
Cross Offerings: ECONOMIC 4110
Prereqs/Coreqs: P: completion of university math requirement and ECONOMIC 2410
BUSADMIN 4120
3 credits
Operations Management
This course focuses on quantitative decision tools which assist the manager in the planning, organizing, and controlling of operations in industrial and service organizations. Topics covered include forecasting, queuing theory, transportation models, facility layout, scheduling, inventory control, capacity planning and materials planning.
Components: Lecture
Prereqs/Coreqs: P: (BUSADMIN 2330 or AGINDUS 1500) and (ECONOMIC 2410 or MATH 1830)

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: Lecture
Prereqs/Coreqs: P: BUSADMIN 1300 and BUSADMIN 2330

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: Lecture
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: Lecture
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: Lecture
Prereqs/Coreqs: P: BUSADMIN 2630 or AGINDUS 2430 and one other marketing course and junior standing

BUSADMIN 4840
3 credits
Business Policy/Strategy
An introduction to strategic decision-making; integration of the functional organizational areas through analysis of case studies and related readings; development of external information scanning using resources such as Internet and business publications.
Components: Lecture
Prereqs/Coreqs: P: senior standing and ACCTING 3000 (or higher) 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: Lecture

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
| Course Code | Credits | Course Title                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Components | Prereqs/Coreqs                                                                                           |
|-------------|--------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHEMSTRY 1020 | 2      | **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, Lecture Prereqs/Coreqs: P: math placement score of 15 or higher                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                                                                                                   |
| CHEMSTRY 1050 | 5      | **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, Lecture GE: Natural Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |                                                                                                                                                                   |
| CHEMSTRY 1140 | 4      | **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) Components: "Exam, Laboratory, Lecture GE: Natural Science Prereqs/Coreqs: P: a "C" or better MATH 1530 or MATH 1630 or MATH 1730 or MATH 1830 or math proficiency level of 20 or higher                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                                                                                                   |
| CHEMSTRY 1240 | 4      | **General Chemistry**                          | Second semester of a two-semester sequence. Kinetics, chemical equilibrium, electrochemistry, thermodynamics, organic, descriptive and nuclear chemistry. (Fall, Spring) Components: "Exam, Laboratory, Lecture GE: Natural Science Prereqs/Coreqs: P: a "C" or better in CHEMSTRY 1140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                                                                                                                                                   |
| CHEMSTRY 1450 | 5      | **Chemistry for Engineers**                    | A one semester course for engineering students with a strong background in high school chemistry and mathematics. Topics include measurements, atomic theory, stoichiometry, molecular structure, thermochemistry, states of matter, intermolecular forces, solutions, kinetics, equilibrium, thermodynamics, electrochemistry, solid state, material science and organic chemistry. (Fall, Spring) Components: "Exam, Laboratory, Lecture 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                                                                                                   |
| CHEMSTRY 2000 | 1 - 3  | **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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                                                                                                   |
| CHEMSTRY 2150 | 4      | **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, Lecture Prereqs/Coreqs: P: a "C" or better in CHEMSTRY 1240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                                                                                                   |
| CHEMSTRY 2730 | 4      | **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, Lecture Prereqs/Coreqs: P: a "C" or better in CHEMSTRY 1240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                                                                                                   |
| CHEMSTRY 3110 | 1      | **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      | **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: Lecture Prereqs/Coreqs: P: a "C" or better in CHEMSTRY 1240 or CHEMSTRY 1450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                                                                                                   |
| CHEMSTRY 3270 | 2      | **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. (Winterim) Components: Lecture 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, Lecture
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. (Spring)
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: Lecture
Prereqs/Coreqs: P: a "C" or better in CHEMSTRY 3510

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 into the application and execution of more sophisticated techniques. (Spring)
Components: Laboratory
Prereqs/Coreqs: P: 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: Lecture
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 1 credit
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: Lecture
Prereqs/Coreqs: P: a "C" or better in all courses - 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, Lecture
Prereqs/Coreqs: P: a "C" or better in both CHEMSTRY 2150 and CHEMSTRY 4130

CHEMSTRY 4520  2 credits
Nanoscale Characterization and Fabrication
Students will learn and apply several techniques for the fabrication of nanoscale structures. Additionally, students will learn instrumental and analytical techniques to characterize and measure these submicrometer structures. Because nanotechnology is an interdisciplinary field, students will learn and apply techniques from biology, chemistry, and materials science. This course is required for the Minor in Microsystems and Nanotechnology. (Fall)
Components: Laboratory
Prereqs/Coreqs: P: ENGRPHYS 3930

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: Lecture
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: Lecture
Prereqs/Coreqs: P: a "C" or better in CHEMSTRY 2730 and CHEMSTRY 4130

CHEMSTRY 4810  2 credits
Advanced Topics in Organic Chemistry
Selected topics from among recent advances in mechanisms, structure-reactivity correlations, stereochemistry and conformational analysis, resonance and molecular orbital theory, spectra, natural products, heterocyclic systems and synthesis. (Spring)
Components: Lecture
Prereqs/Coreqs: P: a "C" or better in CHEMSTRY 3630 and CHEMSTRY 3610 and C: CHEMSTRY 4230

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: Lecture
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: Lecture
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
Civil Engineering Courses

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: Lecture
- GE: Social Sciences
- Prereqs/Coreqs: P: MATH 15; C: ENGLISH 1230

CIVILENG 2120 3 credits  
*Civil 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: Lecture
- Prereqs/Coreqs: P: MATH 2640. C: CIVILENG 2630

CIVILENG 2630 3 credits  
*Elements of Surveying*
General use and care of surveying instruments; elevation determination, horizontal positioning; coordinate systems, topographic and construction surveys, introduction to boundary surveys, horizontal and vertical curves. (Fall, Spring)
- Components: Laboratory, Lecture
- Prereqs/Coreqs: P: 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, Lecture
- Prereqs/Coreqs: P: (CIVILENG 2120 or COMPUTER 1830) and CIVILENG 2630

CIVILENG 3030 3 credits  
*Construction Materials*
Fundamentals of engineering materials; analysis of aggregate and blending techniques; influences of aggregate mineralogy; analytical instrumentation and testing; introduction to portland cement chemistry; theory and design of portland cement concrete mixtures; bituminous materials and mixes; influences of mix properties on pavement durability. Construction material design projects. (Fall, Spring)
- Components: Laboratory, Lecture
- Prereqs/Coreqs: C: CIVILENG 2120 and GENENG 2340

CIVILENG 3100 4 credits  
*Structural Mechanics*
Design loads; stability and determinacy of trusses, beams and frames; member forces and deflection of statically determinate trusses; shear and moment diagrams, slopes and deflections of statically determinate beams and frames; influence lines and moving loads; force methods of indeterminate trusses, beams and frames; displacement methods of indeterminate beams and frames; approximate methods of indeterminate structures; computers in structural analysis. (Fall, Spring)
- Components: Laboratory, Lecture
- Prereqs/Coreqs: P: a "C" or better in CIVILENG 2120

CIVILENG 3150 3 credits  
*Reinforced Concrete Design*
Design of reinforced concrete flexural members with consideration of shear, torsion deflection, and excessive cracking. Design of short compression members. Computer analysis of statically indeterminate structures; introduction to pre-stressed concrete and composite construction. (Fall, Spring)
- Components: "Discussion, Laboratory, Lecture
- Prereqs/Coreqs: P: a "C" or better in CIVILENG 3100 and CIVILENG 3030

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, Lecture
- Prereqs/Coreqs: P: a "C" or better in CIVILENG 2120. and GENENG 2130 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, Lecture
- Prereqs/Coreqs: P: CHEMSTRY 1450 and (a "C" or better in CIVILENG 2120 or COMPUTER 1830)
CIVILENG 3530  
**Transportation Engineering**  
Introductory overview of transportation systems with emphasis on the highway mode of transportation. Topics include fundamentals of transportation economics, land-use and transportation interaction, elements of transportation planning, traffic operations, concepts of highway locations and geometric design, and introduction to flexible and rigid pavement systems. (Fall, Spring)  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: a "C" or better in CIVILENG 2120 and CIVILENG 2630

CIVILENG 3730  
**Geotechnical Engineering I**  
Exploration and classification of soils; index properties; effective stress; shear strength; water in soils; earth pressure; introduction to foundation design. (Fall, Spring)  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: GENENG 2340 and CIVILENG 2120

CIVILENG 3950  
**Civil and Environmental Engineering Cooperative Education**  
Work experience in industry under the direction of the College of Engineering, Mathematics and Science Cooperative Education and Internship Program. During co-op the student is expected to be away from his/her studies at UW-Platteville and work for an industry for a semester and summer. Credits do not fulfill graduation requirements. Minimum cumulative GPA of 2.50 is recommended for participation. (Fall, Spring)  
Components: Field Studies  
Prereqs/Coreqs: P: junior standing

CIVILENG 3970  
**Civil and Environmental Engineering Internship**  
Work experience in industry under the direction of the College of Engineering, Mathematics and Science Cooperative Education and Internship Program. NOTE: This program is separate and distinct from the cooperative education program and is principally designed to cover the summer work experience. Internship is designed to provide experiential learning experience to the student during the summer period. Credits do not fulfill graduation requirements. (Summer)  
Components: Field Studies

CIVILENG 4020  
**Construction Estimates and Costs**  
Methods of estimating, extending and pricing; use of blue prints, specifications and commercial cost sheets to bid a complete project; scheduling and pricing of labor. (Spring)  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: a "C" or better in CIVILENG 3020 or INDUSTDY 2540

CIVILENG 4030  
**Construction Equipment**  
Excavation methods and equipment; equipments costs; engineering fundamentals; analysis and design of equipment systems; drilling and blasting; material production and safety as they pertain to both heavy construction and surface mining methods. (Fall)  
Components: Lecture  
Prereqs/Coreqs: P: a "C" or better in CIVILENG 3020 or INDUSTDY 2540

CIVILENG 4040  
**Construction and Professional Management**  
Construction management decision making; engineering economic comparisons, scheduling, bidding techniques, introduction to labor agreements, safety and QA/QC. (Spring)  
Components: Lecture  
Prereqs/Coreqs: P: CIVILENG 3020 or INDUSTDY 2540; C: MATH 4030

CIVILENG 4100  
**Computer Analysis of Structures**  
Finite element theory and application with beam, truss, and plate elements. Introduction to engineering programming with Visual Basic and MATLAB; optimization, reliability, numerical integration, and eigen analysis for structural problems. (Spring)  
Components: Lecture  
Prereqs/Coreqs: P: a "C" or better in CIVILENG 3100

CIVILENG 4160  
**Foundation Design**  
Bearing capacities and lateral earth pressures; design and computer application of shallow foundations, piles and caissons, retaining structures. (Fall)  
Components: Lecture  
Prereqs/Coreqs: P: a "C" or better in CIVILENG 3730; C: CIVILENG 3150

CIVILENG 4230  
**Steel Design**  
Behavior and properties of structural steel, proportioning of members and connections; AISC-LRFD specifications. Integrated design project. (Spring)  
Components: "Discussion, Laboratory, Lecture  
Prereqs/Coreqs: P: a "C" or better in CIVILENG 3100

CIVILENG 4250  
**Wood Structures**  
Anisotropic properties of wood; wood connectors; solid wood members; beams, columns and beam columns; plywood; glulam beams and arches; integrated design project. (Fall)  
Components: Lecture  
Prereqs/Coreqs: P: a "C" or better in CIVILENG 3100

CIVILENG 4300  
**Hydrology**  
Hydrologic cycle and data collection; rainfall-runoff relationships, and models; statistical analysis of streamflow and precipitation measurements; runoff estimation using Rational, TRSS, and USGS Regression methods and computer models; hydrograph analysis; detention pond and outlet structure design; culvert design and analysis; water surface profile analysis. (Fall, Spring)  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: a "C" or better CIVILENG 3300 and (MATH 4030 or MATH 1830) and CIVILENG 3340

209
CIVILENG 4310 3 credits

**Groundwater Hydrology**

Components: Lecture
Prereqs/Coreqs: P:(CIVILENG 3300 or AGSCI 4350 or AGINDUS 3950) and GEOLOGY 3130 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, Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
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, Lecture
Prereqs/Coreqs: P: a "C" or better in CIVILENG 3030, CIVILENG 3530, and CIVILENG 3730

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: Lecture
Prereqs/Coreqs: P: a "C" or better in CIVILENG 3530; C: MATH 4030

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, Lecture
Prereqs/Coreqs: P: a "C" or better in CIVILENG 2120 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: Lecture
Prereqs/Coreqs: P: a "C" or better in 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: Lecture
Prereqs/Coreqs: P: a "C" or better in CIVILENG 3730
### CIVILENG 4930 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, Lecture

**Prereqs/Coreqs:** P: CIVILENG 3020 and CIVILENG 3030 and CIVILENG 3100 and CIVILENG 3150 and CIVILENG 3300 and CIVILENG 3340 and CIVILENG 3530 and CIVILENG 3730

### CIVILENG 4980

#### 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:** Lecture

### CIVILENG 4990

#### Independent Study
Advanced study in area of specialization selected by student and approved by faculty member. (Fall, Spring, Summer)

**Components:** Independent Study

---

## Communication Technologies Courses

### COMMNCTN 1030 Software: PhotoShop Basic
An introduction to powerful photo manipulation software, taught on the Macintosh platform. (Fall, Spring)

**Components:** Laboratory, Lecture

**Prereqs/Coreqs:** P: Communication Technologies major or a minor in Broadcast Production, Imaging Media, Public Relations or Journalism or consent of instructor

### COMMNCTN 1050 Software: Illustrator Basic
An introductory course to image creation and manipulation software, taught on the Macintosh platform. (Fall, Spring)

**Components:** Laboratory, Lecture

**Prereqs/Coreqs:** P: Communication Technologies major or a minor in Broadcast Production, Imaging Media, Public Relations or Journalism or consent of instructor

### COMMNCTN 1100 Software: Flash Basic
An introduction to software for Web pages, animation, and multimedia. (Fall, Spring)

**Components:** Laboratory, Lecture

**Prereqs/Coreqs:** P: Communication Technologies major or a minor in Broadcast Production, Imaging Media, Public Relations or Journalism or consent of instructor

### COMMNCTN 1130 Software: Dreamweaver Basic
An introduction to the use of this Web page development software. (Spring)

**Components:** Laboratory, Lecture

**Prereqs/Coreqs:** P: Communication Technologies major or a minor in Broadcast Production, Imaging Media, Public Relations or Journalism or consent of instructor

### COMMNCTN 1140 Integrated Design Software
A hands-on course on how to develop technology skills and software skills of student learners to enable them to plan, design, and carry out a digital design project. Intermediate techniques on Adobe design software (including Photoshop, InDesign, Illustrator, Flash and Dreamweaver) will be taught on the Macintosh platform.

**Components:** Laboratory, Lecture

**Prereqs/Coreqs:** P: COMMNCTN 1030 or COMMNCTN 1050 or COMMNCTN 1100 or COMMNCTN 1130 or COMMNCTN 1160

### COMMNCTN 1160 Software: InDesign Basic
This is an introduction to Adobe InDesign, page layout software, taught on the Macintosh. (Spring)

**Components:** Lecture

**Prereqs/Coreqs:** P: Communication Technologies major or a minor in Broadcast Production, Imaging Media, Public Relations or Journalism or consent of instructor

### COMMNCTN 1230 Survey of Imaging
A foundation course emphasizing the fundamental concepts of visual communication; Survey of Imaging lectures will relate to hands-on assignments undertaken in the laboratory. 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)

**Components:** Laboratory, Lecture

### COMMNCTN 1250 Audio and Video Systems
A hands-on introduction to multi-camera studio operations, as well as theoretical aspects of video, audio, RF, and control systems. (Fall, Spring)

**Components:** Laboratory, Lecture

### COMMNCTN 1630 Introduction to Mass Media
Survey of mass communication theory and the role of mass media in society. Analysis of media evolution, structure, economics, effects, and control. (Fall, Spring)

**Components:** Lecture

**GE:** Social Sciences

### COMMNCTN 1730 Introduction to Communication Technologies
A survey of communication technologies, including operational theory as well as practical application -- a total introductory approach to the study of electronic communication. (Spring of Even Years)

**Components:** Lecture
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMNCTN 1930</td>
<td>Basic Photography</td>
<td>3 credits</td>
</tr>
<tr>
<td>COMMNCTN 2030</td>
<td>Basic Newwriting and Reporting</td>
<td>3 credits</td>
</tr>
<tr>
<td>COMMNCTN 2050</td>
<td>Broadcast Media Writing</td>
<td>3 credits</td>
</tr>
<tr>
<td>COMMNCTN 2070</td>
<td>Introduction to Video Field Production</td>
<td>3 credits</td>
</tr>
<tr>
<td>COMMNCTN 2090</td>
<td>Principles of Interactivity</td>
<td>3 credits</td>
</tr>
<tr>
<td>COMMNCTN 2110</td>
<td>Applied Communication</td>
<td>1 credit</td>
</tr>
<tr>
<td>COMMNCTN 2360</td>
<td>Public Relations Principles</td>
<td>3 credits</td>
</tr>
<tr>
<td>COMMNCTN 2530</td>
<td>Audio Production</td>
<td>3 credits</td>
</tr>
<tr>
<td>COMMNCTN 3010</td>
<td>Business Communication</td>
<td>3 credits</td>
</tr>
<tr>
<td>COMMNCTN 3030</td>
<td>Multimedia Projects</td>
<td>3 credits</td>
</tr>
<tr>
<td>COMMNCTN 3070</td>
<td>History of Imaging</td>
<td>3 credits</td>
</tr>
<tr>
<td>COMMNCTN 3100</td>
<td>Topics in Communication</td>
<td>1 - 3 credits</td>
</tr>
</tbody>
</table>

**Basic Photography**

An introduction to basic photography and darkroom techniques encompassing film selection, exposure variables, camera accessories, and lighting. Photographic history and contemporary issues will also be incorporated. A working digital single lens reflex camera is required or may be rented from the department. (Fall, Spring)

Components: Laboratory, Lecture
Prereqs/Coreqs: P: Communication Technologies major or a minor in Broadcast Production, Imaging Media, Public Relations or Journalism or consent of instructor

**Basic Newwriting and Reporting**

This course emphasizes news gathering, interviewing, research, writing techniques, Associated Press style, and knowledge of current events. Students will write frequently, both for publication and in the laboratory setting. (Fall, Spring)

Components: Laboratory, Lecture
Prereqs/Coreqs: P: ENGLISH 1230

**Broadcast Media Writing**

In-depth study of the broadcast writing process. Techniques and script styles used in writing non-journalistic copy with an emphasis on persuasive messages for radio and television. (Fall)

Components: Lecture
Prereqs/Coreqs: P: COMMNCTN 1630 and ENGLISH 1230

**Introduction to Video Field Production**

This course will focus on the single-camera approach to video production. The class will provide discussion and hands-on activities including field shooting and linear editing techniques. (Spring)

Components: Laboratory, Lecture
Prereqs/Coreqs: P: COMMNCTN 1250

**Principles of Interactivity**

This course introduces and extends the concepts, aesthetics, and techniques critical to the exploration and authoring of interactive art and design works. Topics on the fundamentals of time-based interactive design will include: forms of narrative, structure and organizing methods, visual and motion variables, sequencing, composition, and the application of these principles to design problems. (Fall)

Components: Lecture
Prereqs/Coreqs: P: COMMNCTN 1040 and COMMNCTN 1130 and COMMNCTN 1230

**Applied Communication**

Supervised practical experience in graphics, campus publications, media services, or the radio and television facilities. Maximum of 8 credits of COMMNCTN 2110, COMMNCTN 3120, and COMMNCTN 4030 will be applied to the major. (Fall, Spring)

Components: Laboratory
Prereqs/Coreqs: P: consent of instructor
COMMNCTN 3120  
**Applied Communication**  
For students having production and/or supervisory responsibilities while receiving experience in radio, television, journalism, photography, or graphics. Maximum of 8 credits of COMMNCTN 2110, COMMNCTN 3120, and COMMNCTN 4030 will be applied to the major. (Fall, Spring)  
Components: Laboratory  
Prereqs/Coreqs: P: consent of instructor  

COMMNCTN 3150  
**Communication Research**  
This course will prepare students to evaluate, conduct, and present research in the area of communication technologies studies.  
Components: Lecture  
Prereqs/Coreqs: P: ENGLISH 1230 and COMMNCTN 1630  

COMMNCTN 3200  
**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: Lecture  
Cross Offerings: WOMSTD 3200  
GE: Gender Studies, Social Sciences  
Prereqs/Coreqs: P: ENGLISH 1230 and COMMNCTN 1630 or WOMSTD 1130  

COMMNCTN 3240  
**Studio Production**  
This course covers advanced theory and practice in producing and directing video programming in a studio setting. (Spring)  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: COMMNCTN 1250  

COMMNCTN 3290  
**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: Lecture  
Prereqs/Coreqs: P: COMMNCTN 1630  

COMMNCTN 3330  
**Digital Imaging**  
This course explores the digital relationship of photography and printmaking. While working with the ‘digital darkroom’, students will learn about digital cameras, film scanning, image quality controls, photomontage, and high quality digital output. (Every two years)  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: COMMNCTN 1040 and COMMNCTN 1060 and COMMNCTN 1230 and COMMNCTN 1930  

COMMNCTN 3500  
**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, Lecture  
Prereqs/Coreqs: P: COMMNCTN 1030 and COMMNCTN 1930  

COMMNCTN 3560  
**Broadcast News**  
Theory and practice in broadcast news gathering and presentation. Writing, field acquisition of story elements, technical considerations, and analysis of the news process and ethics. (Every two years)  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: COMMNCTN 2030 and COMMNCTN 2070  

COMMNCTN 3580  
**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: Lecture  
Prereqs/Coreqs: P: COMMNCTN 1630  

COMMNCTN 3650  
**Broadcast Performance**  
Theory and techniques of microphone and camera performance for various styles and formats of audio and video production. (Every two years)  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: COMMNCTN 3240  

COMMNCTN 3730  
**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, Lecture  
Prereqs/Coreqs: P: COMMNCTN 2030 or COMMNCTN 2050
COMMNCTN 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: Lecture

GE: Social Sciences

Prereqs/Coreqs: P: ENGLISH 1230 and COMMNCTN 1630

COMMNCTN 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: Lecture

Prereqs/Coreqs: junior standing

COMMNCTN 3830 3 credits

**Editing for Print**

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, Lecture

Prereqs/Coreqs: P: COMMNCTN 1250 and COMMNCTN 2050 and COMMNCTN 2530

COMMNCTN 3840 3 credits

**Post-Production**

This course offers advanced theory and practice in single camera format video production, including linear and non-linear editing.

(Spring)

Components: Laboratory, Lecture

Prereqs/Coreqs: P: COMMNCTN 2110, COMMNCTN 3120, and COMMNCTN 3860

COMMNCTN 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: Lecture

Prereqs/Coreqs: P: COMMNCTN 1630

COMMNCTN 3920 3 credits

**Promotional Techniques**

This course provides practice in developing persuasive messages through copy writing and design. Course contents will be connected to various media, including print, broadcast, and electronic message systems. (Fall)

Components: Laboratory, Lecture

Prereqs/Coreqs: P: COMMNCTN 2360 or BUSADMIN 2630

COMMNCTN 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: Lecture

Prereqs/Coreqs: P: COMMNCTN 1630

COMMNCTN 4030 3 credits

**Applied Communication**

Practical experience in the management of the university radio station, the university television facilities, or university publications. Maximum of 8 credits of COMMNCTN 2110, COMMNCTN 3120, and COMMNCTN 4030 may be applied to the major. (Fall, Spring)

Components: Laboratory

Prereqs/Coreqs: P: consent of instructor

COMMNCTN 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

COMMNCTN 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: Lecture

Prereqs/Coreqs: P: consent of instructor

COMMNCTN 4140 3 credits

**U. S. Investigative Journalism 1963-Present**

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: Lecture

Prereqs/Coreqs: P: COMMNCTN 2030

COMMNCTN 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: Lecture

Prereqs/Coreqs: junior standing

COMMNCTN 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, Lecture

Prereqs/Coreqs: P: COMMNCTN 3500
COMMNCTN 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

COMMNCTN 4830 1 credit  
**Senior Seminar**  
A holistic view of the communication field. (Fall, Spring)  
Components: Seminar  
Prereqs/Coreqs: P: Communication Technologies major status and senior standing

COMMNCTN 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 credits; and have approval from advisor

### Computer Science Courses

COMPUTER 1010 1 credit  
**Introduction to Computer Science**  
This course provides the opportunity for students to learn about the computer science program and resources available at UW-Platteville. Topics include the use of computers as well as issues and opportunities in computer science. (Fall)  
Components: Lecture

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, Lecture

COMPUTER 1430 3 credits  
**Programming in C++**  
A technical course in computing, algorithms, data representation, and procedural programming. Modularity and abstraction stressed in algorithm development. Style and documentation stressed in program development. Weekly lab programs engrain the syntax and semantics of C++. A few larger, out-of-class programs tie the concepts together. (Fall, Spring, Summer)  
Components: Laboratory, Lecture  
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, Lecture

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: Lecture  
Prereqs/Coreqs: P: COMPUTER 1430

COMPUTER 2340 3 credits  
**Programming in Visual Basic**  
An introduction to event driven, object-based programming techniques in Visual Basic. Students will design, code, and debug Graphic User Interface (GUI) programs and apply the technique to business applications. (Fall)  
Components: Lecture  
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, Lecture  
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, Spring)  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: COMPUTER 2430
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER 2830</td>
<td>Advanced Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>COMPUTER 2990</td>
<td>Computer Science Special Topics</td>
<td>1-3</td>
</tr>
<tr>
<td>COMPUTER 3030</td>
<td>Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>COMPUTER 3130</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>COMPUTER 3230</td>
<td>Computer Architecture/Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMPUTER 3340</td>
<td>Windows Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPUTER 3520</td>
<td>Programming Language Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPUTER 3530</td>
<td>Systems Development and Implementation</td>
<td>3</td>
</tr>
<tr>
<td>COMPUTER 3630</td>
<td>Database Design and Implementation</td>
<td>3</td>
</tr>
<tr>
<td>COMPUTER 3830</td>
<td>Data Communications and Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>COMPUTER 3870</td>
<td>Web Protocols, Technologies and Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

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: Lecture
Prereqs/Coreqs: P: COMPUTER 1830

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: Lecture

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: Lecture
Prereqs/Coreqs: P: COMPUTER 2630 and MATH 2730

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: Lecture
Prereqs/Coreqs: P: COMPUTER 2230

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: Lecture
Prereqs/Coreqs: P: COMPUTER 2430

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: Lecture
Prereqs/Coreqs: P: COMPUTER 2630 or (COMPUTER 2340 and COMPUTER 2430)

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: Lecture
Prereqs/Coreqs: P: COMPUTER 2630

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: Lecture
Prereqs/Coreqs: P: COMPUTER 3130

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: Lecture
Prereqs/Coreqs: P: COMPUTER 2430

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: Lecture
Prereqs/Coreqs: P: COMPUTER 2430

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: Lecture
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: Lecture
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: Lecture
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: Lecture
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.
Components: Laboratory, Lecture
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

Counselor Education Courses

COUNSLED 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: Lecture

COUNSLED 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, Lecture

COUNSLED 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: Lecture

COUNSLED 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: Lecture

COUNSLED 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

COUNSLED 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: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture

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: Lecture
Cross Offerings: 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: Lecture

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, Lecture
Prereqs/Coreqs: P:CRIMLJUS 2130 with a "C" or better and junior standing or junior standing and a Forensic Investigation Major

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: Lecture
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: Lecture
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: Lecture
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: Lecture
Prereqs/Coreqs: P: CRIMLJUS 2230 with a “C” or better and junior standing
CRIMLJUS 3630  
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: Lecture  
Prereqs/Coreqs: P: CRIMLJUS 2230 with a "C" or better and junior standing

CRIMLJUS 3730  
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: Lecture  
Cross Offerings: WOMSTD 3730  
GE: Gender Studies, Social Sciences  
Prereqs/Coreqs: P: CRIMLJUS 1130 or one course in women’s studies and junior standing

CRIMLJUS 3830  
Crime Prevention  
An investigation of the prevention of crime utilizing changes in both the physical and social environment of the community.  
Components: Lecture  
Prereqs/Coreqs: P: CRIMLJUS 1130 with a "C" or better and junior standing

CRIMLJUS 3890  
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: Lecture  
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  
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: Lecture  
Prereqs/Coreqs: P: CRIMLJUS 2230 with a "C" or better and junior standing

CRIMLJUS 4030  
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: Lecture  
Prereqs/Coreqs: P: CRIMLJUS 2130 and CRIMLJUS 2230 with a "C" or better in each and junior standing

CRIMLJUS 4130  
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: Lecture  
Prereqs/Coreqs: P: CRIMLJUS 2130 with a "C" or better and junior standing

CRIMLJUS 4230  
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: Lecture  
Prereqs/Coreqs: P: CRIMLJUS 2230 with a "C" or better and junior standing

CRIMLJUS 4330  
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: Lecture  
Prereqs/Coreqs: P: CRIMLJUS 4030 with a "C" or better and junior standing

CRIMLJUS 4430  
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: Lecture

CRIMLJUS 4500  
Directed Individual Studies  
Supervised individual study of a topic selected by the student with staff approval.  
Components: Independent Study  
Cross Offerings: 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.

Components: Lecture
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 4630 1 - 3 credits

Current Topics In Criminal Justice
Current issues in criminal justice which may not warrant a permanent course. Course content will be announced each time the course is presented.

Components: Lecture
Prereqs/Coreqs: P: CRIMLJUS 4030 with a "C" or better and junior standing

CRIMLJUS 4730 2 - 4 credits

Honors in Criminal Justice Research
The practical application of research to the criminal justice field. The student will design a complete research project within the framework of a tutorial relationship with a member of the criminal justice faculty.

Components: Independent Study
Prereqs/Coreqs: P: CRIMLJUS 4030 with a "C" or better and junior standing

CRIMLJUS 4840 3 credits

Substance Abuse I: Theory and Assessment
This course is designed to provide an overview of basic psychopharmacology, recreational drug use, substance abuse, and dependency. Included in this approach will be coverage of addiction theory, prevention, and assessment. Particular attention will be paid to risk and protective factors associated with abuse and dependency. (Fall)

Components: Lecture
Cross Offerings: PSYCHLGY 4840
Prereqs/Coreqs: P: CRIMLJUS 1130, PSYCHLGY 1130 or SOCIOLGY 1030 and junior standing; a biology course is recommended

CRIMLJUS 4880 8 credits

Internship
Enhancement of the educational experience through placement of a student with a governmental or private agency, emphasis placed 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 Offerings: 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 3 credits

Criminal Justice Seminar
Discussion and evaluation of problems in the contemporary criminal justice system; individual research and presentation of findings.

Components: Seminar
Prereqs/Coreqs: P: CRIMLJUS 4030 with a "C" or better, senior standing and have passed the department’s writing certification requirement

Economics 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: Lecture
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: Lecture
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, Summer)

Components: Lecture
GE: Social Sciences

ECONOMIC 4240 3 credits

Business and Economic Data
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 and political science, and others. Analysis occurs within the contextual framework provided by guest presenters having expertise in areas of race and ethnic studies and women’s studies. 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. (Fall, Spring)
Components: Lecture
Cross Offerings: “ETHNSTDY 2940, POLISCI 2940”
GE: Ethnic and Gender, Social Sciences

ECONOMIC 3530 3 credits

Economic History of The United States: The First Three Hundred Years
An introductory survey of the evolution of the market economy of the United States up to the World War I and of American thought concerned with the problems arising from such changes.
Components: Lecture
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 and/or HISTORY 1430

ECONOMIC 3630 3 credits

Comparative Economic Systems
An analysis of various forms of capitalism and socialism, with special attention given to the economics of the United States, the Soviet Union, England, and others. (Offered various semesters)
Components: Lecture
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. (Fall, Spring, Summer)
Components: Lecture
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: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: ECONOMIC 2130 and ECONOMIC 2230

ECONOMIC 4010 1 - 3 credits

Economics Workshop
Components: Lecture

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. (Fall)
Components: Lecture
Cross Offerings: 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. (Offered various semesters)
Components: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: ECONOMIC 2130, ECONOMIC 2230 and junior standing

ECONOMIC 4930 3 credits

Senior Seminar
Critical examination of select economic policy issues with active participation by Department of Economics faculty and other invited guests. (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. Students may register for job orientation under this title. Appropriate forms must be filled out by students with approval of the instructor and the department chairperson. (Offered various semesters.)
Components: Independent Study
GE: Social Sciences
Prereqs/Coreqs: P: ECONOMIC 2130 and ECONOMIC 2230 and junior standing. Students may register for job orientation under this title. Appropriate forms must be filled out by students with approval of the instructor and department chair

ECONOMIC 4990 1 - 3 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. (Offered various semesters)
Components: Field Studies

221
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, Lecture
Prereqs/Coreqs: P: 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 transforms. (Fall, Spring)
Components: Discussion, Laboratory, Lecture
Prereqs/Coreqs: P: 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, Lecture
Prereqs/Coreqs: P: ELECTENG 2210 and MATH 2840. C: MATH 2630

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, Lecture
Prereqs/Coreqs: P: 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, Lecture
Prereqs/Coreqs: P: ELECTENG 2210

ELECTENG 3140  4 credits
Electric and Magnetic Fields
Electrostatics, magnetostatics, Maxwell’s equations, plane waves, and transmission lines. (Fall, Spring)
Components: Discussion, Lecture
Cross Offerings: ENGRPHYS 3640
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, Lecture
Prereqs/Coreqs: P: ELECTENG 2220

ELECTENG 3410  4 credits
Electric Power Engineering
Introduction to electromechanics, generators, transformers, transmission lines, motors, and network analysis. (Fall, Spring)
Components: Discussion, Laboratory, Lecture
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, prototyping, and testing. State machine design and implementation. Introduction to HDL and programmable logic devices. (Fall, Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: ELECTENG 1210

ELECTENG 3780  4 credits
Introduction to Microprocessors
Introduction to microprocessor assembly language programming. Fundamentals of microprocessor architecture, data representation, and arithmetic. System debugging. Interfacing and interrupts. Microprocessor- and microcontroller-based system design, testing, and implementation. (Fall, Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: COMPUTER 1430 and ELECTENG 3770

ELECTENG 3950  4 credits
Electrical 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

ELECTENG 3970  1 credit
Electrical Engineering Internship
Work experience in industry under the direction of the department chair and College of Engineering, Mathematics and Science Cooperative Education and Internship Program. NOTE: This program is separate and distinct from the cooperative education program and is principally designed to cover the summer work experience. Internship is designed to provide experiential learning experience to the student during the summer period. Credits do not fulfill graduation requirements. (Summer)
Components: Field Studies
Prereqs/Coreqs: P: junior standing
**ELECTENG 4010**  
1 credit  
**UHF Amplifier Design**  
Scattering parameters, the Smith Chart, lumped-element impedance matching, transistor characterization, device stability, UHF CAD techniques, and transistor bias techniques.  
Components: Lecture  
Prereqs/Coreqs: P: ELECTENG 3020

**ELECTENG 4020**  
1 credit  
**UHF Oscillator Design**  
Scattering parameters, the Smith Chart, transistor characterization, device destabilization, lumped-element impedance matching, UHF CAD techniques, output power prediction, and transistor bias techniques.  
Components: Lecture  
Prereqs/Coreqs: P: 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, Lecture  
Prereqs/Coreqs: P: 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, Lecture  
Prereqs/Coreqs: P: 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, Lyanpunov stability, minimum realization, and state feedback design. (Spring Odd Years)  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: ELECTENG 3310 or MECHNCHL 4330

**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, Lecture  
Prereqs/Coreqs: P: 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, Lecture  
Prereqs/Coreqs: P: ELECTENG 3310

**ELECTENG 4430**  
4 credits  
**Power Electronics and Electrical Machines**  
DC machines and DC machine control; 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, Lecture  
Prereqs/Coreqs: P: ELECTENG 3020 and ELECTENG 3410

**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, permanent magnet synchronous motor drives, DC motor drives. (Fall Even Years)  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: ELECTENG 3020 and ELECTENG 3310 and ELECTENG 3410

**ELECTENG 4450**  
4 credits  
**Power Systems Analysis and Design**  
Power systems modeling, load flow, economic dispatch, stability, fault analysis, computer simulation and systems analysis. (Spring)  
Components: Discussion, Laboratory, Lecture  
Prereqs/Coreqs: P: ELECTENG 2220 and ELECTENG 3410

**ELECTENG 4610**  
4 credits  
**Communication Systems**  
Analysis and design of amplitude, angle, and pulse code modulation systems. (Fall)  
Components: Discussion, Laboratory, Lecture  
Prereqs/Coreqs: P: ELECTENG 2220 and ELECTENG 3020 and ELECTENG 3770

**ELECTENG 4620**  
4 credits  
**Optical Systems**  
Geometric and physical optics, lasers, light emitting diodes, optical detectors, optical signal processing, holography, nonlinear optics, integrated optics, optical fibers, optical communications systems. (Spring)  
Components: Discussion, Laboratory, Lecture  
Prereqs/Coreqs: P: ELECTENG 4610 or ELECTENG 3140, ELECTENG 3610 or 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, Lecture  
Prereqs/Coreqs: P: ELECTENG 4610
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTENG 4720</td>
<td>4 credits</td>
<td>Microcomputer Architecture and Interfacing</td>
</tr>
<tr>
<td>ELECTENG 4750</td>
<td>4 credits</td>
<td>Advanced Digital Design</td>
</tr>
<tr>
<td>ELECTENG 4980</td>
<td>1 - 4 credits</td>
<td>Current Topics in Engineering</td>
</tr>
<tr>
<td>ENERGY 2130</td>
<td>3 credits</td>
<td>Energy, Environment, and Society</td>
</tr>
<tr>
<td>ENERGY 3240</td>
<td>4 credits</td>
<td>Fundamentals of Energy Sources</td>
</tr>
<tr>
<td>ENERGY 3950</td>
<td>2 credits</td>
<td>Renewable Energy Cooperative Education</td>
</tr>
<tr>
<td>ENERGY 3970</td>
<td>1 credit</td>
<td>Renewable Energy Internship</td>
</tr>
<tr>
<td>ENERGY 4920</td>
<td>2 credits</td>
<td>Research or Design Project on Renewables</td>
</tr>
<tr>
<td>ENERGY 4980</td>
<td>1 - 3 credits</td>
<td>Current Topics in Energy</td>
</tr>
<tr>
<td>ENERGY 4990</td>
<td>1 - 3 credits</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

**Energy Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTENG 3780</td>
<td>4 credits</td>
<td>Microcomputer Architecture and Interfacing</td>
</tr>
<tr>
<td>ELECTENG 3140</td>
<td>4 credits</td>
<td>Advanced Digital Design</td>
</tr>
<tr>
<td>ELECTENG 3130</td>
<td>1 - 4 credits</td>
<td>Current Topics in Engineering</td>
</tr>
<tr>
<td>ELECTENG 3140</td>
<td>1 - 3 credits</td>
<td>Independent Study</td>
</tr>
<tr>
<td>ENERGY 3140</td>
<td>3 credits</td>
<td>Energy, Environment, and Society</td>
</tr>
<tr>
<td>ENERGY 3240</td>
<td>4 credits</td>
<td>Fundamentals of Energy Sources</td>
</tr>
<tr>
<td>ENERGY 3950</td>
<td>2 credits</td>
<td>Renewable Energy Cooperative Education</td>
</tr>
<tr>
<td>ENERGY 3970</td>
<td>1 credit</td>
<td>Renewable Energy Internship</td>
</tr>
<tr>
<td>ENERGY 4920</td>
<td>2 credits</td>
<td>Research or Design Project on Renewables</td>
</tr>
<tr>
<td>ENERGY 4980</td>
<td>1 - 3 credits</td>
<td>Current Topics in Energy</td>
</tr>
<tr>
<td>ENERGY 4990</td>
<td>1 - 3 credits</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

**Microcomputer Architecture and Interfacing**
Computer architecture including processor design, microprogrammed control, memory organization, interconnection structures, input/output, interfacing techniques, and parallel processing. (Spring)

- Components: Laboratory, Lecture
- Prerequisites/Corequisites: P: ELECTENG 3780

**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, Lecture
- Prerequisites/Corequisites: P: ELECTENG 3140 and ELECTENG 3780; C: ELECTENG 3130

**Energy, Environment, and Society**
The course will provide the student with an overview of issues related to energy and renewable energy, including usage trends, historical patterns, social responses to energy changes, economic factors, market forces, geographical concerns, the various forms and sources of energy including renewable energy and bio-energy, how these sources may affect the environment, and recent developments in energy policies in the U.S. and the world. Energy, power, energy sources as well as usage patterns by societies over history will be presented. Field trips may be required in this course.

- Components: Lecture
- GE: Social Sciences
- Prerequisites/Corequisites: P: ENGLISH 1230

**Fundamentals of Energy Sources**
Traditional, renewable, and bio-energy sources and their characteristics. Advantages and disadvantages of existing and future sources of energy and bio-products. Economic and environmental impact comparisons of various energy sources including wind, photovoltaic, hydrogen, geothermal, and bio-fuels. Field trips may be required in this course.

- Components: Laboratory, Lecture
- Prerequisites/Corequisites: P: ENERGY 2130

**Renewable Energy Cooperative Education**
Enhancement of the educational experience through the placement of a student with a business, industry, or institution under the direction of the director of renewable energy program. During co-op, the student is expected to be away from his/her studies at UWP and work for a company or institution for a semester. (Spring or Fall)

- Components: Field Studies
- Prerequisites/Corequisites: P: minor in Renewable Energy, junior standing and ENERGY 2130

**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
- Prerequisites/Corequisites: P: minor in Renewable Energy, junior standing and ENERGY 2130

**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
- Prerequisites/Corequisites: P: ENERGY 3240 and senior standing

**Current Topics in Energy**
In-depth study of a current topic of interest in energy area. The course aims to better prepare students in the Minor by providing the latest developments in the energy area and involving students in finding, assimilating and presenting current literature and research. Topics to be covered will be identified by the instructor at the time of the offering.

- Components: Lecture
- Prerequisites/Corequisites: P: consent of instructor

**Independent Study**
Advanced study or research in an area of specialization selected by student and approved by faculty member.

- Components: Independent Study
- Prerequisites/Corequisites: P: consent of instructor
## English Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 1130</td>
<td>Freshman Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 1230</td>
<td>Freshman Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 1330</td>
<td>Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 1430</td>
<td>Thematic Studies in Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2050</td>
<td>Science Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2120</td>
<td>Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2130</td>
<td>English Literature: Beginnings Through the Commonwealth</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2150</td>
<td>Introduction to Gay Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2210</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2230</td>
<td>English Literature: Restoration Through the Romantic Age</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2250</td>
<td>Introduction to Film</td>
<td>3</td>
</tr>
</tbody>
</table>

### Freshman Composition

Rhetorical principles of writing—the sentence, the paragraph and the essay—with practice in reading and writing prose. (Fall, Spring, Summer)

**Components:** Lecture
**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

A continuation of English 1130 with particular emphasis on argumentation, research and documentation, and writing essays based on inductive analysis. (Fall, Spring, Summer)

**Components:** Lecture
**GE:** English
**Prereqs/Coreqs:** P: ENGLISH 1130 or testout

### ENGLISH 1330

**Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

**Introduction to Literature**

A course designed to introduce the student to the understanding and enjoyment of literature through different literary genres—fiction, poetry and drama—and to acquaint the students with such literary terms as plot, theme, character, setting, form, and interpretation. Does not count towards English major. (Fall, Spring)

**Components:** Lecture
**GE:** Humanities
**Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

### ENGLISH 1430

**Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

**Thematic Studies in Literature**

A specific social, cultural and intellectual theme as expressed in selected literary works. The themes vary (e.g., The West in American Literature, The Image of Woman in Literature, Science Fiction, The Theme of Crime and Justice, The Supernatural and Occult); therefore, this course may be taken more than once for credit, provided the content is different each time.

**Components:** Lecture
**GE:** Humanities
**Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

### ENGLISH 2050

**Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

**Science Fiction**

An introduction to the science fiction genre; texts studied will include short stories, novels and films.

**Components:** Lecture
**GE:** Humanities
**Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

### ENGLISH 2120

**Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

**Creative Writing**

An introduction to the craft of fiction, poetry, and drama, with the opportunity to create each. Students need a basic foundation in writing before taking before taking the course. (Fall)

**Components:** Lecture

### ENGLISH 2130

**Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

**English Literature: Beginnings Through the Commonwealth**

British literature through the Puritan Age, including such writers as Chaucer, More, Spenser, Shakespeare, Donne, and Milton. (Fall)

**Components:** Lecture
**GE:** Humanities
**Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

### ENGLISH 2150

**Introduction to Gay Studies**

Introduction to Gay Studies is an interdisciplinary course covering the history, culture, and politics of gay men, lesbians, bisexuals, and transgendered persons around the world. The course seeks to theorize, document, uncover, and revise our existing knowledge about same-sex attraction and gender identity and also examine a wide range of related historical figures and events. Using the lenses of social science, science, and the humanities, the course explores ways in which sexual orientation and gender limit and expand individual experience.

**Components:** Lecture
**Cross Offerings:** WOMSTD 2150
**GE:** Gender Studies, Humanities-2nd course only,
**International Education**
**Prereqs/Coreqs:** P: ENGLISH 1230

### ENGLISH 2210

**Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

**Introduction to Linguistics**

A general introduction to linguistics, the study of human language. This course covers the core topics of linguistics, including phonetics, phonology, morphology, syntax, semantics, pragmatics, sociolinguistics, and language acquisition. Examples will be drawn primarily from the English language.

**Components:** Lecture
**GE:** Humanities
**Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

### ENGLISH 2230

**Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

**English Literature: Restoration Through the Romantic Age**

English literature from the Restoration through the Romantic age, including such writers as Dryden, Swift, Pope, Johnson, Coleridge, Wordsworth, Byron, Shelley, and Keats.

**Components:** Lecture
**GE:** Humanities
**Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230

### ENGLISH 2250

**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, Lecture
**GE:** Humanities-2nd course only
**Prereqs/Coreqs:** P: ENGLISH 1130 and ENGLISH 1230
ENGLISH 2330 3 credits
**English Literature: Victorian Age to the Present**
English literature from the Victorian Age to the present, including such writers as Carlyle, Tennyson, Browning, Arnold, Hardy, Joyce, Woolf, and Murdoch. (Every other Spring)
Components: Lecture
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. (Fall, Spring)
Components: Lecture
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. (Fall, Spring)
Components: Lecture
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, Dante. (Fall)
Components: Lecture
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, Kincaid. (Spring)
Components: Lecture
GE: Humanities, International Education
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2730 3 credits
**Contemporary Literature**
Short stories, plays, novels and poems selected from the works of modern and contemporary authors, including such writers as Kafka, Camus, Silone, Lawrence, Greene, Koestler, Oates, Mason, Updike, Allende, and Marquez. (Every other Spring)
Components: Lecture
GE: Humanities
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 and influences the film styles that are more familiar to American students. Such a breadth of knowledge will both expand students’ knowledge of world cinema but 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 which gave rise to these films.
Components: Lecture
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 which 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: Lecture
Cross Offerings: WOMSTD 2830
GE: Gender Studies, 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. (Fall)
Components: Lecture
Cross Offerings: WOMSTD 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. (Fall, Spring)
Components: Lecture
Cross Offerings: ETHNSTDY 2930, WOMSTD 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. (Fall, Spring)

Components: Lecture
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. (Fall)

Components: Lecture
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: Lecture
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 GLBTQ students.

Components: Lecture
Cross Offerings: WOMSTD 3110
GE: Gender Studies, Humanities-2nd course only
Prereqs/Coreqs: P: ENGLISH 1230

ENGLISH 3120 3 credits

Seminar in Creative Writing
Continuation of English 2120 with an emphasis on creating a unified work of fiction, poetry, drama, or screenwriting. This course can be repeated for credit. (Spring)

Components: Seminar
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. (Every other Fall)

Components: Lecture
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. (Every other Fall)

Components: Lecture
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. (Every other Spring)

Components: Lecture
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. (Spring)

Components: Lecture
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: Lecture
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: Lecture
GE: Humanities, International Education
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230
ENGLISH 3280  
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: Lecture  
Cross Offerings: WOMSTD 3280  
GE: Gender Studies, Humanities  
Prereqs/Coreqs: P: ENGLISH 1230

ENGLISH 3330  
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. (Every other Fall)  
Components: Lecture  
GE: Humanities  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3360  
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. (Fall)  
Components: Lecture  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 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, in particular, the involvement of the writers in the social and political conflicts affecting the Chicano community. (Every other Spring)  
Components: Lecture  
Cross Offerings: ETHNSTDY 3410  
GE: Ethnic Studies, Humanities  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3430  
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. (Every other Fall)  
Components: Lecture  
GE: Humanities  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3530  
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: Lecture  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3610  
Mark Twain and American Humor  
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. (Every other Spring)  
Components: Lecture  
GE: Humanities  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3730  
Black Literature in America  
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. (Spring)  
Components: Lecture  
Cross Offerings: ETHNSTDY 3730  
GE: Ethnic Studies, Humanities  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 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: Lecture  
Cross Offerings: ETHNSTDY 3740  
GE: Ethnic Studies, Humanities  
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230
ENGLISH 3750 3 credits
American Literature of Ethnicity and Immigration
An examination of literature from a variety of U.S. "racial" and "ethnic" groups, including African-, Italian-, Mexican-, Jewish-, Asian-, and Native-American. Emphasis will be placed on the meanings of "race" and "ethnicity," the effects of immigration, and the impact of gender in this literature. (Fall)
Components: Lecture
Cross Offerings: ETHNSTDY 3750
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3760 3 credits
Wisconsin Indian Literature
An exploration of Wisconsin Indian literatures from the oral tradition to the present; texts studied will include epics, legends, poetry, novels, and selected non-fiction, including such writers as Mountain Woman, Louise Erdrich, and Susan Power. (Fall)
Components: Lecture
Cross Offerings: ETHNSTDY 3760
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3810 3 credits
The Modern Short Story
The development of the short story as a modern literary genre. (Every other Fall)
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3820 3 credits
Modern Poetry
A study of poetry written since World War I, including such poets as Pound, Eliot, Lorca, Yeats, Rilke, Williams, Frost and Thomas. (Every other Spring)
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3830 3 credits
The World Novel
A careful study of selected novels exclusive of English and American. Content and focus may vary in different semesters and may include such writers as Dostoyevsky, Flaubert, Mann, Kafka, Cortazar, Achebe, Lagerkvist, Kawabata, and Dinesen. (Every other Spring)
Components: Lecture
GE: Humanities, International Education
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3850 3 credits
Postcolonial Literature
A study of literature that addresses both the history and legacy of colonialism. The readings will focus on writing in English from non-European countries. Content and focus may vary in different semesters and may include writers from Africa (such as Chinua Achebe, Nuruddin Farah, or Wole Soyinka), India (such as Bharati Mukherjee, Arundhati Roy, or Salman Rushdie), the Caribbean (such as Jamaica Kincaid, V.S. Naipaul, or Derek Walcott), and Ireland (such as Brian Friel, Seamus Heaney, or Paul Muldoon).
Components: Lecture
GE: Humanities, International Education
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230 and sophomore standing or consent of the instructor

ENGLISH 3890 3 credits
Film and Literature
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. (Every other Fall)
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3910 3 credits
Classical Mythology
Studying classical mythology as presented in ancient Greek and Roman epic, drama, and poetry provides a gateway to appreciating over two millennia of literature, art, philosophy, religion, politics and more. Classical mythologies influence cannot be overstated. Knowing these works is an essential part of understanding what we are as human beings. Students will read some of the essential works of classical mythology, including such works as Hesiod’s Theogony, Homer’s Odyssey, Aeschylus’ Agamemnon, Sophocles’ Oedipus Rex, Virgil’s Aeneid, and Ovid’s Metamorphoses.
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3930 3 credits
Literature for Young Adults
An analysis of selected novels, plays, and poetry especially suitable for young adults of middle or high school age with an emphasis on approaches and methods for teaching literature. (Fall)
Components: Lecture
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3940 3 credits
Grammar in Context
Attention given to both traditional and modern (functional) grammar, including the parts of speech, phrases, clauses, sentence patterns, and their combinations into a variety of sentence types and paragraph patterns. Practical application of grammatical concepts in a writing- and reading-intensive environment, with attention to the logic of punctuation and conventional mechanics. (Fall)
Components: Lecture
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3990 3 credits
Film and Literature
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. (Every other Fall)
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230
ENGLISH 4020 3 credits
History and Theory of Rhetoric
This course is designed for students who will use and/or teach rhetoric strategies and structures in the professional world. From speech and communication theory to the teaching of critical and interpretational writing and reading, the study of rhetoric’s place in the history of ideas will help students to understand the place and power of language in the university and the professional work place. (Occasionally)
Components: Lecture
Cross Offerings: SPEECH 4020
GE: Humanities-2nd course only
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4030 3 credits
Major English Writers
An intensive study of selected major English writers including Chaucer and Milton. (Every other Fall)
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4080 3 credits
Medieval Lyric Poetry
The course emphasizes reading the original language, analyzing the contents, and writing interpretations of Middle English lyrics. Topics include nature, love and sex, humor, festivals, religion, and death. Latin, troubadour, Celtic, and Anglo-Norman poetry (in translation) will provide a context for the Middle English works. Some attention will be given to published criticism of selected poems. (Every other Spring)
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230 and sophomore standing

ENGLISH 4300 3 credits
English Renaissance Poetry and Prose
An intensive look at the poetry and prose of this period providing students with a greater appreciation of and a methods for studying this literature. This course will introduce students to a number of important literary genres, including the pastoral, the elegy, the sonnet, Ovidian poetry, travel literature, and the epic; the intellectual thought underlying much of this work (e.g., issues of the Reformation, Neo-Platonism, Humanism, Machiavellianism); and the influence of classical and continental literature. (Every other Fall)
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4330 3 credits
Shakespeare
A study of Shakespeare’s plays, with representative selections from the histories, the tragedies, and both the early and the late comedies. (Spring)
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4430 3 credits
Major American Writers
An intensive study of selected major American writers. (Every other Spring)
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4500 3 credits
Women and Mythology: Goddess, Witch, Sibyl
This course takes a comparative and interdisciplinary approach to numinous images of the feminine as they appear internationally. By exploring pre-historical, historical, and contemporary manifestations of goddess-centered mythology and religious practices around the world, students will broaden their understanding of women’s contributions to the literary and spiritual traditions of many cultures. (Every other Fall)
Components: Lecture
Cross Offerings: WOMSTD 4500
GE: Gender Studies, Humanities, International Education
Prereqs/Coreqs: 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. (Spring)
Components: Lecture
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4630 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: Lecture
Cross Offerings: TEACHING 4670
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4680 1 - 8 credits
Writing/Editing Internship
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the writing or editing assignment, type of experience, number of credits, and evaluation procedure to be stipulated in a statement of agreement between student and department.
Components: Field Studies
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230
ENGLISH 4730  3 credits

Teaching of English in Middle and Secondary Schools
The objectives, methods and materials dealing with the teaching of middle or high school English. Does not count toward the English major or minor. (Spring)
Components: Lecture
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230 and ENGLISH 3030 and junior standing; P or C: ENGLISH 3930

ENGLISH 4740  3 credits

Practicum in Teaching English as a Second Language
Observing teachers and students in TESL settings, participating in TESL teaching and tutoring activities including lesson preparation, and evaluating the teaching/learning experiences. (Occasionally)
Components: Lecture
Cross Offerings: TEACHING 4750
Prereqs/Coreqs: P or C: ENGLISH 4670

ENGLISH 4920  1 - 4 credits

Independent Study in English
Independent study culminating in a written report or research paper. Each student selects the topic in consultation with the instructor.
Components: Independent Study
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230 and senior standing. For English majors and minors only. May not be taken in lieu of regularly scheduled classes

Engineering Physics 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)
Components: Lecture
Prereqs/Coreqs: P: PHYSICS 2640 or PHYSICS 2340, GENENG 2130; C: MATH 3630

ENGRPHYS 3640  4 credits

Electric and Magnetic Fields
Electrostatics, magnetostatics, Maxwell’s equations, plane waves, and transmission lines. (Fall, Spring)
Components: Discussion, Lecture
Cross Offerings: ELECTENG 3140
Prereqs/Coreqs: P: ELECTENG 2220, MATH 3630 and PHYSICS 2640 or PHYSICS 2340

ENGRPHYS 3930  3 credits

Microsystems and Nanotechnology
An overview of the basic science and engineering of microelectronics and microelectromechanical systems (MEMS) is presented: fundamental concepts of semiconductors and mechanics; microfabrication processes and surface micromachining; electrostatic sensing and actuation. CAD-based MEMS design and visualization software is taught and used for student group design projects. Course includes and introduction to the sub-100 nanometer scale aspects of chemistry, physics, and biology, and how these aspects can be combined to provide solutions to engineering problems. Recent applications will be presented as case studies, including sensors, biology & medicine, electronics, and new materials. Principles of operation of several measurement techniques that underpin this field will be presented, as will social, legal, and ethical aspects of applied microsystems and nanoscience. (Spring)
Components: Lecture
Prereqs/Coreqs: P: junior standing in Mechanical, Electrical, Engineering Physics, Biology, Chemistry or consent of instructor

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, Lecture
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 4010

ENGRPHYS 4220  2 credits

Introduction to Quantum Electronics
Applications of quantum mechanics, statistical mechanics, and solid state physics to electronics, optoelectronics and other modern engineering technology. (Fall)
Components: Lecture
Prereqs/Coreqs: P: PHYSICS 3140 with a "C" or better; C: MATH 3630

ENGRPHYS 4930  3 credits

Engineering Physics Design
Integration of technical knowledge in an open-ended, comprehensive design project which simulates an engineering project environment, including teamwork, project management, and oral and written reports.
Components: Laboratory, Lecture
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: Lecture

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

Ethnic Studies Courses

ETHNSTDY 2200  3 credits

Introduction to Ethnic Studies
An examination of the concepts, issues and experience of People of Color in the U.S. with emphasis on the historical and contemporary interaction of race, gender, and class within and external to communities of color.
Components: Lecture
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: Lecture
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: Lecture
Cross Offerings: 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 culture contact and conflict, continuing through work created by contemporary tribal artists informed by those traditions.
Components: Lecture
Cross Offerings: 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: Lecture
Cross Offerings: CRIMLJUS 2830
GE: Ethnic Studies
Prereqs/Coreqs: sophomore standing to enroll in this class
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: Lecture
Cross Offerings: ENGLISH 2930, WOMSTD 2930
GE: Ethnic and Gender, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

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 and political science, and others. Analysis occurs within the contextual framework provided by guest presenters having expertise in areas of race and ethnic studies and women’s studies. 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. (Fall, Spring)

Components: Lecture
Cross Offerings: ECONOMIC 2940, POLISCI 2940
GE: Ethnic and Gender, Social Sciences

Race, Gender, and United States Labor History

Social, cultural, and economic history of American working people from the colonial period to the present.

Components: Lecture
Cross Offerings: HISTORY 3010
GE: Ethnic Studies, Historical Perspective

Human Relations

Social stratification based upon race and 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 which 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: Lecture
Cross Offerings: SOCIOLOGY 3230
GE: Ethnic and Gender, Social Sciences
Prereqs/Coreqs: P: SOCIOLOGY 1030

African-American History 1619 to Present

The historical experience of African-Americans since 1619.

Components: Lecture
Cross Offerings: HISTORY 3240
GE: Ethnic Studies, Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of instructor or department chair

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: Lecture
Cross Offerings: BUSADMIN 3340, WOMSTD 3340
GE: Ethnic and Gender
Prereqs/Coreqs: P: BUSADMIN 2330 or AGINDUS 1500 or junior standing

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. (Every other Spring)

Components: Lecture
Cross Offerings: ENGLISH 3410
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

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, Lecture
Cross Offerings: TEACHING 3630, WOMSTD 3630
GE: Ethnic and Gender

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: Lecture
Cross Offerings: POLISCI 3730
GE: Ethnic Studies, Social Sciences
Prereqs/Coreqs: P: POLISCI 1230 or consent of instructor
ETHNSTDY 3730 3 credits

Black Literature in America
A survey of African American literature beginning in the antebellum period and continuing to the present, including oral forms (folk tales and spirituals), novels, poetry, drama, autobiography, and other selected non-fiction. (Spring)
Components: Lecture
Cross Offerings: ENGLISH 3730
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3740 3 credits

Asian American Literature
A survey of Asian-American literature beginning in the early 1900s and continuing to present times. Includes works of fiction, autobiography, poetry, and drama. Focuses on writers from different literary and oral traditions including (but not limited to) Mandarin Chinese, Japanese, Thai, Hmong, Vietnamese, and Indian, and examines the impact of family, culture, and gender both within these traditions and between a particular tradition and U.S. popular culture. (Fall)
Components: Lecture
Cross Offerings: ENGLISH 3740
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3750 3 credits

American Literature of Ethnicity and Immigration
An examination of literature from a variety of U.S. "racial" and "ethnic" groups, including African-, Italian-, Mexican-, Jewish-, Asian-, and Native-American. Emphasis will be placed on the meanings of "race" and "ethnicity," the effects of immigration, and the impact of gender in this literature. (Fall)
Components: Lecture
Cross Offerings: ENGLISH 3750
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3760 3 credits

Wisconsin Indian Literature
An exploration of Wisconsin Indian literatures from the oral tradition to the present; texts studied will include epics, legends, poetry, novels, and selected non-fiction, including such writers as Mountain Wolf Woman, Louise Erdrich, and Susan Power. (Fall)
Components: Lecture
Cross Offerings: ENGLISH 3760
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3830 3 credits

Black Women and Feminism in the U.S.
An interdisciplinary examination of the historical and contemporary relationship between black women in the United States and the feminist movement. Authors discussed may include Frances Harper, Ida Wells-Barnett, bell hooks, and Audre Lorde, and others.
Components: Lecture
Cross Offerings: WOMSTD 3830
GE: Ethnic and Gender
Prereqs/Coreqs: sophomore standing to enroll in this class

Forensic Courses

FORENSIC 1320 3 credits
Introduction to Crime Scene Investigation
This course delves into various types of technology, techniques and equipment used in crime laboratories, and various types of technology, techniques and equipment used by crime scene technicians at a crime scene. Course also provides an overview for the career of crime scene technicians. (Spring, Fall)
Components: Lecture

FORENSIC 2320 3 credits
Fingerprint Classification and Development
This course delves into the theoretical and practical applications of fingerprint identification. Course involves developing latent prints from numerous sources in a laboratory setting and at a crime scene. Course also includes rolling fingerprints and fingerprint comparison using automated fingerprint identification systems. Students learn to examine and classify latent prints using the Henry alpha - numeric classification system. (Spring, Fall)
Components: Lecture
Prereqs/Coreqs: P: FORENSIC 1320

FORENSIC 2420 2 credits
Evidence Collection and Preservation
This course covers the methodology associated with the collection and preservation of physical evidence such as hair, fibers, fingerprints, footwear impressions, and blood and biological samples at crime scenes. Chain of custody procedures, recording evidence submissions and managing and maintaining evidence collection storage facilities will also be covered. The course will adhere to a step-by-step training associated with the most current version of the Wisconsin Department of Justice Evidence Collection Handbook, (8th Ed). (Spring)
Components: Lecture
Prereqs/Coreqs: P: FORENSIC 1320

FORENSIC 2620 3 credits
Investigative Photography
Investigative Photography is a course designed to familiarize students with the fundamentals of photography and its application to the science and technology of criminal investigation. Students will be expected to achieve a basic knowledge of how to record and document, collect, protect and defend the credibility of evidence with the use of photography. (Spring, Fall)
Components: Lecture
Prereqs/Coreqs: P: FORENSIC 1320

FORENSIC 3040 4 credits
Crime Scene Processing Techniques
Crime Scene Processing Techniques is a course crafted to familiarize the student with the methodologies and techniques associated with scientific crime scene processing. The student will be expected to achieve a basic knowledge of how to document, collect, preserve, and defend the credibility of evidence. The student will take part in lecture and laboratory components to ensure theoretical understanding and technical application of the material presented. (Fall, Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: FORENSIC 1320 and FORENSIC 2420 and FORENSIC 2620
FORENSIC 3140
5 credits
Criminalistics
The function and techniques of the application of scientific methods to the evaluation of physical evidence. The course examines the various analytical systems used in the evaluation of physical evidence with a balance between the theoretical framework and practical application in the laboratory. (Fall)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: FORENSIC 1320 and FORENSIC 2420 and FORENSIC 3040 with "C" or better in all and junior standing

FORENSIC 4020
3 credits
Courtroom Testimony and Evidence
This course is intended to give the criminal justice student a fundamental understanding of the trial process including, inter alia, working with the prosecutor, establishing the chain-of-custody of evidence, qualifying 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, Lecture
Prereqs/Coreqs: P: Forensic Investigation major or minor or Criminal Justice major or minor

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 Offerings: 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 which 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 Offerings: CRIMLJUS 4880
Prereqs/Coreqs: P: 60 credits plus 12 upper division criminal justice/forensic investigation credits, an accumulated GPA of 2.25 and have passed the department's writing certification requirement

FORENSIC 4920
3 credits
Forensic Investigation Seminar
Discussion and evaluation of problems in the contemporary criminal justice system; individual research and presentation of findings. (Fall, Spring)
Components: Seminar

French Courses
FRENCH 1040
4 credits
Elementary French
Conversation, grammar, reading, writing; emphasis on oral practice, structure, vocabulary; language lab.
Components: Laboratory, Lecture

FRENCH 1140
4 credits
Elementary French
Continuation of French 1040; language lab.
Components: Laboratory, Lecture
GE: Humanities-2nd course only
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, Lecture
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, Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
GE: Humanities
Prereqs/Coreqs: P: FRENCH 2140 or equivalent

General Engineering Courses

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: Lecture
Prereqs/Coreqs: C: MATH 1530 or higher

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: Lecture
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, Lecture
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: Lecture
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: Lecture
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: Lecture
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, Lecture
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; carnot cycle; rankine cycle; otto and diesel cycles; refrigeration; conduction and convection heat transfer. Not open to Mechanical Engineering majors. (Fall, Spring, Summer)
Components: Lecture
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: Lecture
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, Lecture
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
C: MATH 2740

GENENG 4000 1 - 3 credits
Research in Microsystems and Nanotechnology
Students will learn research methods applied to microsystems and nanotechnology, including the use of scientific literature and the evaluation of data. Research projects may be interdisciplinary, involving aspects of biology, chemistry, physics, and engineering, and they may involve experiments and/or modeling and simulation. Results will be presented in a final report. This course is required for the Minor in Microsystems and Nanotechnology. (Fall, Spring)
Components: Lecture
Prereqs/Coreqs: P: ENGRPHYS 3930

GENENG 4230 3 credits
Design and Simulation of MEMS
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: Lecture
Prereqs/Coreqs: P: ENGRPHYS 3930 and MATH 3630
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 Geography 1140 or Geography 1240.
Components: Laboratory, Lecture
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: Lecture
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, Lecture
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: Lecture
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, Lecture
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: Lecture

GEOGRPHY 1330 3 credits
World Regional Geography
Geographic understanding of the major regions of the world; emphasis is placed upon human-environmental relationships.
Components: Lecture
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, Lecture
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, Lecture

GEOGRPHY 2250 3 credits
Tropical Marine Ecosystems
This course is built around a three week summer field course based at the University of the South Pacific’s Marine Studies Program, taught by experts in their field at UWP and USP. Topics for study will include tropical marine environment, communities, and conservation. There will be several required field excursions.
Components: Lecture
Cross Offerings: 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: Lecture
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: Lecture
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: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: GEOGRPHY 1230 or GEOGRPHY 1330 or consent of instructor
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, Lecture
Cross Offerings: WOMSTD 3170
GE: Gender Studies, Social Sciences

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: Lecture
GE: International Education, Social Sciences
Prereq/Coreqs: P: a 1000-level course in geography or consent of instructor

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, Lecture
GE: Natural Science
Prereqs/Coreqs: P: GEOGRPHY 1040 or GEOGRPHY 1140 or BIOLOGY 1150 or BIOLOGY 1650 or BIOLOGY 1750 or consent of instructor

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, Lecture
GE: International Education, Social Sciences
Prereqs/Coreqs: P: GEOGRPHY 1330 or consent of the instructor

Remote Sensing and Photogrammetry
An introduction to the theory and interpretation of remote sensing imagery, with emphasis on photographic, thermal, and microwave remote sensing systems. Stereo pair photos from aircraft will be used to illustrate geographic and environmental applications of remote sensing, such as their use in mapping and measuring features on the earth's surface.
Components: Laboratory, Lecture
Prereq/Coreqs: P: a 1000-level course in geology or geography or consent of the instructor

Remote Sensing and Photogrammetry
An introduction to the theory and interpretation of remote sensing imagery, with emphasis on photographic, thermal, and microwave remote sensing systems. Stereo pair photos from aircraft will be used to illustrate geographic and environmental applications of remote sensing, such as their use in mapping and measuring features on the earth's surface.
Components: Laboratory, Lecture
Prereq/Coreqs: P: a 1000-level course in geology or geography or consent of the instructor

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: Lecture
GE: International Education, Social Sciences
Prereq/Coreqs: P: a 1000-level course in geography or consent of instructor

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: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: junior standing or consent of instructor

Biogeochemistry
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, Lecture
GE: Natural Science
Prereqs/Coreqs: P: GEOGRPHY 1040 or GEOGRPHY 1370 or BIOLOGY 1150 or BIOLOGY 1650 or BIOLOGY 1750 or consent of instructor

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.
Components: Discussion, Lecture
GE: International Education, Social Sciences
Prereqs/Coreqs: P: GEOGRPHY 1330 or consent of the instructor

Geographic Information Systems: Vector Fundamentals
Explores the fundamental principles of numerical data entry, digitizing, data manipulation and analysis, and the interpretation of spatially referenced data, using the family of GIS functions in a vector GIS. (Recommend completing GEOGRPHY 2230 before enrolling in this course.)
Components: Laboratory, Lecture

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, Lecture
Prereq/Coreqs: P: GEOGRPHY 2230 or GEOGRPHY 3230 or 3 credits of a computer-related course

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: Lecture
GE: International Education, Social Sciences
Prereqs/Coreqs: P: a 1000-level course in geography or consent of instructor

Remote Sensing and Photogrammetry
An introduction to the theory and interpretation of remote sensing imagery, with emphasis on photographic, thermal, and microwave remote sensing systems. Stereo pair photos from aircraft will be used to illustrate geographic and environmental applications of remote sensing, such as their use in mapping and measuring features on the earth's surface.
Components: Laboratory, Lecture
Prereq/Coreqs: P: a 1000-level course in geology or geography or consent of the instructor

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: Lecture
GE: International Education, Social Sciences
Prereq/Coreqs: P: a 1000-level course in geography or consent of instructor

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: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: junior standing or consent of instructor

Biogeochemistry
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, Lecture
GE: Natural Science
Prereqs/Coreqs: P: GEOGRPHY 1040 or GEOGRPHY 1370 or BIOLOGY 1150 or BIOLOGY 1650 or BIOLOGY 1750 or consent of instructor

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: Lecture
GE: International Education, Social Sciences
Prereqs/Coreqs: P: a 1000-level course in geography or consent of instructor

Geographic Information Systems: Vector Fundamentals
Explores the fundamental principles of numerical data entry, digitizing, data manipulation and analysis, and the interpretation of spatially referenced data, using the family of GIS functions in a vector GIS. (Recommend completing GEOGRPHY 2230 before enrolling in this course.)
Components: Laboratory, Lecture

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, Lecture
Prereq/Coreqs: P: GEOGRPHY 2230 or GEOGRPHY 3230 or 3 credits of a computer-related course

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: Lecture
GE: International Education, Social Sciences
Prereq/Coreqs: P: a 1000-level course in geography or consent of instructor

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: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: junior standing or consent of instructor

Biogeochemistry
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, Lecture
GE: Natural Science
Prereqs/Coreqs: P: GEOGRPHY 1040 or GEOGRPHY 1370 or BIOLOGY 1150 or BIOLOGY 1650 or BIOLOGY 1750 or consent of instructor

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: Lecture
GE: International Education, Social Sciences
Prereqs/Coreqs: P: a 1000-level course in geography or consent of instructor

Geographic Information Systems: Vector Fundamentals
Explores the fundamental principles of numerical data entry, digitizing, data manipulation and analysis, and the interpretation of spatially referenced data, using the family of GIS functions in a vector GIS. (Recommend completing GEOGRPHY 2230 before enrolling in this course.)
Components: Laboratory, Lecture

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, Lecture
Prereq/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: Lecture
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, Lecture
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, Lecture
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: Lecture
GE: International Education, Social Sciences
Prereqs/Coreqs: P: a 1000-level course in geography or consent of instructor

GEOGRPHY 3960 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 six week field study in Japan.
Components: Field Studies
GE: International Education

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: Lecture
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: Lecture
GE: International Education, Social Sciences
Prereqs/Coreqs: P: 3 credits of geography

GEOGRPHY 4330 3 credits
Geographic Information Systems: Raster Fundamentals
Explores the fundamental principles of numerical data entry, digitizing, data manipulation and analysis, and the interpretation of spatially referenced data, using the family GIS functions in a raster GIS.
Components: Lecture
Prereqs/Coreqs: P: GEOGRPHY 2230 or GEOGRPHY 3230

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, Lecture
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: Lecture
Prereqs/Coreqs: P: GEOGRPHY 3170 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, Lecture  
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, Lecture  
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, Lecture  
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, Lecture  
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: Lecture  

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, Lecture  
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, Lecture  
Prereqs/Coreqs: P: CHEMISTRY 1240 and CHEMISTRY 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, Lecture  
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: Lecture  
Prereqs/Coreqs: P: GEOLOGY 1140 or GEOLOGY 3130; CHEMISTRY 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, Lecture  

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, Lecture  
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, Lecture  
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 landform analysis.
Components: Lecture

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, Lecture

GERMAN 1340 4 credits
Elementary German
Continuation of German 1240; language lab.
Components: Laboratory, Lecture
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, Lecture
GE: Humanities
Prereqs/Coreqs: P: GERMAN 1340 or equivalent

GERMAN 2340 4 credits
Intermediate German
Continuation of German 2240; language lab.
Components: Laboratory, Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
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, Lecture
Prereqs/Coreqs: P: GERMAN 2340 or equivalent
History Courses

HISTORY 1010  3 credits
World Civilization I
The history of humankind to 1715, with emphasis upon the interaction among the peoples of Africa, Asia and Europe.
Components: Discussion, Lecture
GE: Historical Perspective

HISTORY 1020  3 credits
World Civilization II
The history of humankind since 1715, with emphasis upon the interaction among the peoples of the modern world.
Components: Discussion, Lecture
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, Lecture
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, Lecture
GE: Historical Perspective

HISTORY 2150  3 credits
Introduction to Gay Studies
Introduction to Gay Studies is an interdisciplinary course covering the history, culture, and politics of gay men, lesbians, bisexuals, and transgendered persons around the world. The course seeks to theorize, document, uncover, and revise our existing knowledge about same-sex attraction and gender identity and also examine a wide range of related historical figures and events. Using the lenses of social science, science and the humanities, the course explores ways in which sexual orientation and gender limit and expand individual experience.
Components: Lecture
Cross Offering: ENGLISH 2150
GE: Gender Studies, Humanities-2nd course only, International Education

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: Lecture
Cross Offerings: ETHNSTDY 3010
GE: Ethnic Studies, Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of instructor

HISTORY 3080  3 credits
American Military History
A survey of American military history with emphasis on the development of military policy and civil-military relations.
Components: Lecture
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of instructor

HISTORY 3120  3 credits
American Colonial History
The American Colonies, British policies and the Revolution.
Components: Lecture
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 or consent of instructor

HISTORY 3130  3 credits
New Nation
Major trends and developments in the new nation: framing the constitution, establishment of a new government, development and expansion, the Jacksonian era 1783-1848.
Components: Lecture
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 or consent of instructor

HISTORY 3140  3 credits
The Civil War and Reconstruction
The origins, manifestations and results of sectional controversy in the mid-19th century.
Components: Lecture
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 or consent of instructor

HISTORY 3150  3 credits
Gilded Age and Progressive Era
The transformation of the United States from an agrarian nation to an urban, industrial society 1877-1917.
Components: Lecture
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1430 or consent of instructor

HISTORY 3230  3 credits
The West in American History
The frontier and the American west from 1763-1920.
Components: Lecture
GE: 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>Cross Offerings</th>
<th>GE</th>
<th>Prereqs/Coreqs</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 3240</td>
<td>3</td>
<td><strong>African-American History 1619 to Present</strong></td>
<td>The historical experience of African-Americans since 1619.</td>
<td>Lecture</td>
<td>ETHNSTDY 3240</td>
<td></td>
<td>HISTORY 1330 or HISTORY 1430 or consent of instructor</td>
</tr>
<tr>
<td>HISTORY 3320</td>
<td>3</td>
<td><strong>History of Wisconsin</strong></td>
<td>Development of the state of Wisconsin from colonial times to the present.</td>
<td>Lecture</td>
<td></td>
<td></td>
<td>HISTORY 1430 or consent of instructor</td>
</tr>
<tr>
<td>HISTORY 3400</td>
<td>3</td>
<td><strong>The Vietnam War</strong></td>
<td>A survey of the thirty-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 anticommmunist policies, US military strategy, and opposition to the war.</td>
<td>Lecture</td>
<td></td>
<td></td>
<td>HISTORY 1330 or HISTORY 1430 or consent of instructor</td>
</tr>
<tr>
<td>HISTORY 3430</td>
<td>3</td>
<td><strong>History of Modern Africa</strong></td>
<td>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. The course will develop a view of Africans as historical actors and participants on the global stage. Students will be expected to critically analyze: African-European relations and interactions; Continuity and ruptures of African cultures during the colonial period; African strategies of resistance, accommodation, and negotiation under colonialism; Emergence of nationalist movements and struggles for independence.</td>
<td>Lecture</td>
<td></td>
<td></td>
<td>Historical Perspective, International Education</td>
</tr>
<tr>
<td>HISTORY 3460</td>
<td>3</td>
<td><strong>History of Modern Africa</strong></td>
<td>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. The course will develop a view of Africans as historical actors and participants on the global stage. Students will be expected to critically analyze: African-European relations and interactions; Continuity and ruptures of African cultures during the colonial period; African strategies of resistance, accommodation, and negotiation under colonialism; Emergence of nationalist movements and struggles for independence.</td>
<td>Lecture</td>
<td></td>
<td></td>
<td>Historical Perspective, International Education</td>
</tr>
<tr>
<td>HISTORY 3470</td>
<td>3</td>
<td><strong>The United States since 1945</strong></td>
<td>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.</td>
<td>Lecture</td>
<td></td>
<td></td>
<td>Historical Perspective</td>
</tr>
<tr>
<td>HISTORY 3520</td>
<td>3</td>
<td><strong>American Women's History</strong></td>
<td>Surveys the changing patterns of domestic and family life, work, education and public participation of American women from the Colonial period to the present.</td>
<td>Lecture</td>
<td>WOMSTD 3520</td>
<td></td>
<td>HISTORY 1330 or HISTORY 1430 or consent of instructor</td>
</tr>
<tr>
<td>HISTORY 3610</td>
<td>3</td>
<td><strong>British Isles to 1714</strong></td>
<td>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.</td>
<td>Lecture</td>
<td>POLISCI 3610</td>
<td></td>
<td>Historical Perspective</td>
</tr>
<tr>
<td>HISTORY 3620</td>
<td>3</td>
<td><strong>British Isles since 1714</strong></td>
<td>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.</td>
<td>Lecture</td>
<td>POLISCI 3620</td>
<td></td>
<td>Historical Perspective</td>
</tr>
</tbody>
</table>
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.
- Components: Lecture
- 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: Lecture
- Cross Offerings: WOMSTD 3650
- GE: Historical Perspective, International Education
- 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: Lecture
- 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: Lecture
- 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, and social movements.
- Components: Lecture
- Cross Offerings: WOMSTD 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: Lecture
- GE: Historical Perspective
- Prereqs/Coreqs: P: HISTORY 1010 or consent of instructor

HISTORY 3730 3 credits
**Medieval Europe**
Rise of national monarchies, the church, feudalism, the commercial revolution, the Crusades, and the Black Death are among the highlights in this examination of Europe from the fall of the Western Roman Empire to 1500.
- Components: Lecture
- 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 history of ideas, culture and religion.
- Components: Lecture
- 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 fifteenth 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: Lecture
- 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: Lecture
- 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: Lecture
- GE: Historical Perspective
- Prereqs/Coreqs: P: HISTORY 1020 or consent of instructor

HISTORY 3860 3 credits
**History of Western Science**
Covers developments in science in ancient Greece and Rome, the Middle Ages, the period of the Scientific Revolution (including Copernicus, Galileo, and Newton), Darwinism, quantum physics, and Einstein’s theories.
- Components: Lecture
- GE: Historical Perspective
- Prereqs/Coreqs: P: HISTORY 1010 or HISTORY 1020 or consent of instructor
HISTORY 3870  3 credits
**Nazi Germany and the Holocaust**
An examination of the origins and development of Nazism in Germany under the leadership of Adolf Hitler, with particular attention to the genocide against European Jewry known as the Holocaust.

Components: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
Cross Offerings: POLISCI 3340
GE: Historical Perspective, International Education
Prereqs/Coreqs: P: HISTORY 1010 or 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: Lecture
Cross Offerings: 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 nineteenth century, with particular attention to Russian civilization and the origin and growth of the Russian empire.

Components: Lecture
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: Lecture
Cross Offerings: 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: Lecture

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

**Industrial Engineering Courses**

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, Lecture
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, Lecture
Prereqs/Coreqs: P:INDSTENG 2130

INDSTENG 3430  3 credits
**Human Factors Engineering**
Application of human factors (ergonomics) principles to the design of industrial and office systems. Consideration of human capabilities and limitations, effects of the work environment, and design for the handicapped. Application of bio-mechanical and energy consumption models, the human factors design guide, and MQPro software for virtual ergonomics analyses and evaluations. Current standards and OSHA guidelines. At least 8 laboratory projects will enhance the application of human factors principles to real world problems. Safety aspects of human factors engineering will be discussed. (Fall)

Components: Laboratory, Lecture
Prereqs/Coreqs: P: MATH 2740 and BIOLOGY 2340

INDSTENG 3530  3 credits
**Operations Research I**
Basic methodology and techniques of operations research; emphasis on application and problem solving models; linear programming, sensitivity analysis, nonlinear/classical optimization, queuing theory; Markov processes; dynamic programming. (Fall)

Components: Lecture
Prereqs/Coreqs: P: MATH 4030

INDSTENG 3630  3 credits
**Work Measurement and Design**
Principles and techniques of work design, operation analysis and job design. Work methods and analysis; predetermined time systems; stopwatch time studies; work sampling; standards development. Weekly lab/project exercises allow hands-on practice with techniques. Safety and ergonomic considerations in work design will be emphasized. (Spring)

Components: Laboratory, Lecture
Prereqs/Coreqs: P: MATH 4030 and INDSTENG 3430

INDSTENG 3780  3 credits
**System Safety Engineering**
Principles of safety and safety management with an emphasis on OSHA standards. Common hazard situations are presented for anticipation, identification, and evaluation. Ethical and legal responsibilities of engineers are explored. Safety management, plans, and programs are discussed with an emphasis on development and implementation. Risk assessment concepts are introduced. Emphasis on communication between the engineer and personnel at all levels with an organization. (Spring even years)

Components: Lecture
Prereqs/Coreqs: P: junior standing or consent of instructor

INDSTENG 3950  4 credits
**Industrial Engineering Cooperative Education**
Work experience in industry under the direction of the College of Engineering, Mathematics and Science Cooperative Education and Internship Program. During co-op the student is expected to be away from his/her studies at UW-Platteville and work for an industry for a semester and summer. Credits do not fulfill graduation requirements. Minimum cumulative GPA of 2.50 is recommended for participation. (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 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

INDSTENG 4030  3 credits
**Production and Operations Analysis**
Analysis and design of production control procedures including inventory and scheduling. Operations management techniques including forecasting and aggregate planning. Project planning using CPM/PERT. (Fall)

Components: Laboratory, Lecture
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, Lecture
Prereqs/Coreqs: P:INDSTENG 3130 and INDSTENG 3530

INDSTENG 4230  3 credits
**Facilities Design**
Design principles and analytical procedures for facility location, 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 manufacturing systems, flexible manufacturing systems, modular design and office space design. Application of computerized layout techniques is emphasized. Weekly lab/project sessions allow application exercises to enhance theory. (Fall)

Components: Laboratory, Lecture
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, Lecture
Prereqs/Coreqs: P: INDSTENG 3530 and GENENG 2820

INDSTENG 4430 3 credits

**Quality Engineering**
Components: Laboratory, Lecture
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. (Spring odd years)
Components: Laboratory, Lecture
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, Lecture
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: Lecture
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, Lecture
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: Lecture
Prereqs/Coreqs: P: GENENG 2820 and INDSTENG 2130

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: Lecture
Prereqs/Coreqs: C: INDSTENG 4230

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: Lecture
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, Lecture
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, Lecture

INDUSTDY 1200 3 credits
**AC/DC Fundamentals**
An introduction to direct and alternating current fundamentals covering electrical units, resistance, capacitance, inductance, Ohm’s Law, Kirchhoff’s Law, the power formula, rectifiers, and measuring devices. (Fall, Spring)
Components: Laboratory, Lecture

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, Lecture

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, Lecture

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, Lecture
Prereqs/Coreqs: P or C: INDUSTDY 1030 or AGIN 1750

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, Lecture

INDUSTDY 1830 3 credits
**Synthetic and Composite Materials**
An introductory course to industrial materials including plastics, metalastics, 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, Lecture

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, Lecture
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, Lecture
Prereqs/Coreqs: P: INDUSTDY 1260

INDUSTDY 2540 3 credits
**Materials and Techniques of Building Construction**
The basics of construction surveying, the properties and application of wood as a building construction material, an introduction to the use and application of the psychrometric chart, moisture control, the impact and prevention of mold, and analyses of building techniques. Lab includes the performance of various analyses via 2D/3D CAD, spreadsheets and other analysis methods. (Fall, Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: INDUSTDY 2430

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: Lecture
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Prerequisites/Corequisites</th>
<th>Components</th>
<th>Course Description</th>
</tr>
</thead>
</table>
| 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, Lecture  
Prereqs/Coreqs: P: INDUSTDY 1830 | 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, Lecture  
Prereqs/Coreqs: P: INDUSTDY 1130 and 2430  
Prereqs/Coreqs: P: INDUSTDY 2430 and COMPUTER 1830  
Prereqs/Coreqs: P: INDUSTDY 1200  
Prereqs/Coreqs: P: INDUSTDY 1030 and 1230  
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1430  
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1230 |  
| 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, Lecture | 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, Lecture  
Prereqs/Coreqs: P: INDUSTDY 1830  
Prereqs/Coreqs: P: INDUSTDY 2430 and MATH 1830 and COMPUTER 1830  
Prereqs/Coreqs: P: INDUSTDY 1200 |  
| 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, Lecture  
Prereqs/Coreqs: P: INDUSTDY 1830 | 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, Lecture  
Prereqs/Coreqs: P: INDUSTDY 1130 and 2430  
Prereqs/Coreqs: P: INDUSTDY 1030 and 1230  
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1430  
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1230 |  
| 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, Lecture  
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1430 | 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, Lecture  
Prereqs/Coreqs: P: INDUSTDY 1130 and 2430  
Prereqs/Coreqs: P: INDUSTDY 1030 and 1230  
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1430  
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1230 |  
| 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: Lecture  
Prereqs/Coreqs: P: INDUSTDY 2710 | 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, Lecture  
Prereqs/Coreqs: P: INDUSTDY 1130 and 2430  
Prereqs/Coreqs: P: INDUSTDY 1030 and 1230  
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1430  
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1230 |
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, Lecture
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, Lecture
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, Lecture
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, Lecture
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: Lecture
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: Lecture
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: Lecture
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, Lecture
Prereqs/Coreqs: P: PHYSICS 1050 or CHEMISTRY 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, Lecture
Prereqs/Coreqs: P: INDUSTDY 1030 and INDUSTDY 1230 or BUSADMIN 2330

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: Lecture
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: Lecture
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: Lecture
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, Lecture
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, Lecture
Prereqs/Coreqs: P: INDUSTDY 1430 and INDUSTDY 3160 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, Lecture
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, Lecture
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, Lecture
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 CAD drafting practices. (Fall, Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: INDUSTDY 2430

INDUSTDY 4630 3 credits

Building Systems Analysis
The major building systems which include electrical systems, climate controlling systems, lighting systems, and water supply and drainage systems are studied. (Fall, Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P:INDUSTDY 2430 and INDUSTDY 2540 and COMPUTER 1830

INDUSTDY 4640 3 credits

Curriculum and Facility Planning
Curriculum development through design of a program of study. Procedures for identifying and organizing content are examined. Laboratory design and layout are correlated with curriculum through examination of building codes, safety requirements, and equipment specifications. (Fall, Spring)
Components: Lecture
Prereqs/Coreqs: P: TEACHING 1230

INDUSTDY 4720 3 credits

Seminar in Safety
Programs in safety are explored with safety resource experts from industry, education, and government agencies invited as speakers. Additional time is devoted to topics to prepare the safety student for the safety profession. Included would be such topics on how to develop resumes, employment opportunities in the safety profession, and certification available in the safety profession. (Every third semester)
Components: Seminar
Prereqs/Coreqs: P: INDUSTDY 2710 and junior standing
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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>
</tr>
</tbody>
</table>
| | | | Components: Lecture  
Prereqs/Coreqs: P: INDUSTDY 2710 |
| INDUSTDY 4770 | 3 | Loss Control Safety Management | The role of management involved with principles of organization, implementation, administration, and evaluation of occupational safety programs is provided in the course. Methods of controlling losses, basic risk management theories, behavioral-based safety concepts and others are studied. Emphasis is placed on accountability and measuring safety performance at all levels of industry. (Spring) |
| | | | Components: Lecture  
Prereqs/Coreqs: P: INDUSTDY 2710 |
| INDUSTDY 4780 | 3 | Ergonomics in the Workplace | Ergonomics is the study of fitting jobs to workers and doing whatever is necessary to improve worker comfort. Topics covered in this course include: identifying ergonomic problems, office ergonomics, biomechanical principles, determining physical stress on the job, back problems, flexibility exercises. NIOSH lifting standard and equation, cumulative trauma disorders, ergonomic job hazard analysis, work station design cost, and others. An opportunity is provided to conduct an ergonomic job hazard analysis. (Spring) |
| | | | Components: Lecture  
Prereqs/Coreqs: P: INDUSTDY 2710 |
| INDUSTDY 4790 | 3 | Safety Management Components | The course stresses the importance of communications to the safety professional. Areas of communication studied include setting up and conducting safety conferences and developing a safety manual. The opportunity to develop a safety program is provided. Other safety-related communication techniques are also covered. (Fall) |
| | | | Components: Lecture  
Prereqs/Coreqs: P: INDUSTDY 2710 |
| INDUSTDY 4810 | 3 | Fire Protection | A study of the nature and theory of fire hazards; preplanning to prevent fires; the systems approach to fire protection services; the technology of fire control; and the application of theory and technology to solving fire problems. Special attention is given to preparing comprehensive fire prevention programs in the business or industrial world. (Fall) |
| | | | Components: Lecture  
Prereqs/Coreqs: P: INDUSTDY 2710 |
| INDUSTDY 4820 | 2 | Principles of Vocational-Technical Education | An examination of the historical roots of vocational-technical education. Readings and research are conducted on the current trends and issues facing vocational-technical education in a high tech society. Satisfies Vocational Certification. (Spring) |
| | | | Components: Lecture  
Prereqs/Coreqs: P: TEACHING 1230 |
| INDUSTDY 4840 | 3 | Construction Administration | Construction company organization; contract documents; legal, ethical, business, and management procedures; and principles of construction management. (Fall, Spring) |
| | | | Components: Lecture  
Prereqs/Coreqs: P: INDUSTDY 2430 |
| INDUSTDY 4850 | 3 | 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, Lecture  
Prereqs/Coreqs: P: INDUSTDY 2910 |
| INDUSTDY 4860 | 3 | 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, Lecture  
Prereqs/Coreqs: P: INDUSTDY 2910 |
| INDUSTDY 4870 | 3 | 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, Lecture  
Prereqs/Coreqs: P: INDUSTDY 1830 and INDUSTDY 2910 |
INDUSTDY 4970  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, S&S 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: Lecture
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, Lecture
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: Lecture
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: Lecture
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: Lecture
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: junior standing, 18 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.  (Fall, Spring, Summer)
Components: Lecture

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.  (Fall, Spring, Summer)
Components: Lecture

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.  (Fall, Spring, Summer)
Components: Exam, Lecture
Prereqs/Coreqs: P: MATH 10 with a "C" or better or mathematics proficiency level of 10 or above.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1530</td>
<td>3</td>
</tr>
<tr>
<td>College Algebra</td>
<td></td>
</tr>
<tr>
<td>Equations and inequalities, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, complex numbers, systems of equations. This course is equivalent to the first half of Math 2450. Students will not receive credit for both Math 1530 and Math 2450. (Fall, Spring, Summer)</td>
<td></td>
</tr>
<tr>
<td>Components: Lecture</td>
<td></td>
</tr>
<tr>
<td>Prereqs/Coreqs: P: MATH 15 with a grade of &quot;C&quot; or better or mathematics proficiency level of 15 or above. (MATH 1530 and MATH 2530 may not be taken concurrently)</td>
<td></td>
</tr>
<tr>
<td>MATH 1630</td>
<td>3</td>
</tr>
<tr>
<td>Finite Mathematics with Applications</td>
<td></td>
</tr>
<tr>
<td>Set theory, coordinate systems and graphs, matrices, linear systems, linear programming (geometric and simplex), probability, Markov Processes; with applications in the fields of business and economics. (Fall)</td>
<td></td>
</tr>
<tr>
<td>Components: Lecture</td>
<td></td>
</tr>
<tr>
<td>GE: Math</td>
<td></td>
</tr>
<tr>
<td>Prereqs/Coreqs: P: MATH 15 or MATH 1530 or mathematics proficiency level of 15 or above</td>
<td></td>
</tr>
<tr>
<td>MATH 1730</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics of Finance</td>
<td></td>
</tr>
<tr>
<td>Simple and compound interest, annuities, amortization, depreciation, valuation of securities, and bonds. (Fall, Spring, Summer)</td>
<td></td>
</tr>
<tr>
<td>Components: Lecture</td>
<td></td>
</tr>
<tr>
<td>GE: Math</td>
<td></td>
</tr>
<tr>
<td>Prereqs/Coreqs: P: MATH 15 or MATH 1530 or mathematics proficiency level of 15 or above</td>
<td></td>
</tr>
<tr>
<td>MATH 1830</td>
<td>3</td>
</tr>
<tr>
<td>Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>An introduction to statistical analytical methods including graphing distributions, numerical summaries, linear regression and correlation, the normal distribution, confidence intervals and hypothesis tests for means and proportions, analyzing two-way tables, and analysis of variance. Minitab will be used throughout the course. (Fall, Spring, Summer)</td>
<td></td>
</tr>
<tr>
<td>Components: Exam, Lecture</td>
<td></td>
</tr>
<tr>
<td>GE: Math</td>
<td></td>
</tr>
<tr>
<td>Prereqs/Coreqs: P: MATH 15 or MATH 1530 or mathematics proficiency level of 15 or above</td>
<td></td>
</tr>
<tr>
<td>MATH 2030</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics for Educators II</td>
<td></td>
</tr>
<tr>
<td>Math 2030 is the second semester in a three-semester sequence of integrated content and methods courses for preservice teachers. It is open only to students in elementary education pursuing certification levels B-11 or 10-14. (The course is not intended for students pursuing certification level 10-21.) Topics covered include number theory; composition and decomposition of numbers including primes, factors, and multiples; using physical models to develop concepts of and operations on rational numbers; proportional reasoning; and number sense. (Fall, Spring)</td>
<td></td>
</tr>
<tr>
<td>Components: Exam, Lecture</td>
<td></td>
</tr>
<tr>
<td>GE: Math (Elem/Mdl Educ Only)</td>
<td></td>
</tr>
<tr>
<td>Prereqs/Coreqs: P: MATH 1030 with a grade of &quot;C&quot; or better. (Open only to Elementary Education majors)</td>
<td></td>
</tr>
<tr>
<td>MATH 2450</td>
<td>5</td>
</tr>
<tr>
<td>Pre calculus</td>
<td></td>
</tr>
<tr>
<td>Solving equations and inequalities, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric and inverse trigonometric functions, trigonometric identities and formulas, complex numbers, systems of equations, and conic sections. This course is equivalent to taking both Math 1530 and Math 2530. Students who have credit for Math 1530 or Math 2530 should not take Math 2450. (Fall, Spring, Summer)</td>
<td></td>
</tr>
<tr>
<td>Components: Lecture</td>
<td></td>
</tr>
<tr>
<td>GE: Math</td>
<td></td>
</tr>
<tr>
<td>Prereqs/Coreqs: P: MATH 15 with a grade of &quot;B&quot; or better or mathematics proficiency level of 20 or above</td>
<td></td>
</tr>
<tr>
<td>MATH 2530</td>
<td>3</td>
</tr>
<tr>
<td>Trigonometry and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td>Functions and their graphs, trigonometric and inverse trigonometric functions, trigonometric identities and formulas, solution of triangles, complex numbers, exponential and logarithmic functions, and conic sections. This course is equivalent to the second half of Math 2450. Students will not receive credit for both Math 2450 and Math 2530. (Fall, Spring, Summer)</td>
<td></td>
</tr>
<tr>
<td>Components: Lecture</td>
<td></td>
</tr>
<tr>
<td>GE: Math</td>
<td></td>
</tr>
<tr>
<td>Prereqs/Coreqs: P: MATH 1530 with a grade of &quot;C&quot; or better or mathematics proficiency level of 30 or above</td>
<td></td>
</tr>
<tr>
<td>MATH 2630</td>
<td>3</td>
</tr>
<tr>
<td>Calculus with Applications</td>
<td></td>
</tr>
<tr>
<td>Functions, limits, rates of change, exponential and logarithmic functions, differentiation, integration; with applications in the fields of business and economics. (Spring)</td>
<td></td>
</tr>
<tr>
<td>Components: Lecture</td>
<td></td>
</tr>
<tr>
<td>GE: Math</td>
<td></td>
</tr>
<tr>
<td>Prereqs/Coreqs: P: MATH 1530 or MATH 1630 or MATH 2450 or mathematics proficiency level of 30 or above</td>
<td></td>
</tr>
<tr>
<td>MATH 2640</td>
<td>4</td>
</tr>
<tr>
<td>Calculus and Analytic Geometry I</td>
<td></td>
</tr>
<tr>
<td>Limits and continuity, differentiation, differentials, antiderivatives, the definite integral and applications. (Fall, Spring, Summer)</td>
<td></td>
</tr>
<tr>
<td>Components: &quot;Exam, Lecture</td>
<td></td>
</tr>
<tr>
<td>GE: Math</td>
<td></td>
</tr>
<tr>
<td>Prereqs/Coreqs: P: MATH 2450 or MATH 2530 with a grade of &quot;C&quot; or better, or mathematics proficiency level of 40</td>
<td></td>
</tr>
<tr>
<td>MATH 2730</td>
<td>3</td>
</tr>
<tr>
<td>Discrete Mathematics</td>
<td></td>
</tr>
<tr>
<td>Logic, sets, combinations, relations, networks and algebraic structures. (Fall, Spring)</td>
<td></td>
</tr>
<tr>
<td>Components: Lecture</td>
<td></td>
</tr>
<tr>
<td>Prereqs/Coreqs: P: MATH 2450 or MATH 2530 or MATH 2630 or MATH 2640 with a grade of &quot;C&quot; or better, or mathematics proficiency level of 40</td>
<td></td>
</tr>
</tbody>
</table>
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: Exam, Lecture
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: Exam, Lecture
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: Lecture
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: Exam, Lecture
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: Lecture
Prereqs/Coreqs: P: MATH 3030 with a grade of "C" or better. (Open only to students in the early adolescence 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: Lecture
Prereqs/Coreqs: P: MATH 2640 and MATH 2740 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, Summer)
Components: Exam, Lecture
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. (Spring)
Components: Lecture
Prereqs/Coreqs: P: MATH 3230 with a grade of "C" or better

MATH 3630  3 credits
**Differential Equations I**
Solutions of first order differential equations, linear homogeneous and nonhomogeneous differential equations, Laplace transforms, linear systems and applications. (Fall, Spring, Summer)
Components: Exam, Lecture
Prereqs/Coreqs: P: MATH 2840 with a grade of "C" or better
Numerical Analysis
This course is intended to provide an introduction to numerical methods. Topics will include computer arithmetic, solving nonlinear equations, numerical linear algebra, interpolation and curve fitting, numerical calculus, and numerical solutions of ordinary differential equations. Other topics may be added as time permits. (Spring odd years.)
Components: Lecture
Prereqs/Coreqs: P: MATH 3230 and fluency in a programming language

Differential Equations II
Linear systems of differential equations, nonlinear systems, series solutions of differential equations, partial differential equations, orthogonal sets, and Fourier series. (Spring)
Components: Lecture
Prereqs/Coreqs: P: MATH 3630 with a grade of "C" or better

Statistics and Probability
A thorough investigation of more advanced applications in statistics including joint distributions, linear regression, multiple regression, design of experiments for a single factor and multiple factors, analysis of variance, nonparametric statistics, and statistical quality control. (Fall)
Components: Lecture
Prereqs/Coreqs: P: MATH 4030 with a grade of "C" or better

History and Development of Mathematical Concepts
A study of the history and development of mathematics from the primitive origins of numbers to modern mathematics. (Fall odd years.)
Components: Lecture
Prereqs/Coreqs: P: MATH 2640 and junior standing

Theory of Numbers
Integers, divisibility, prime numbers, Euclidean algorithm, linear Diophantine equations, congruences, Wilson’s and Euler’s theorems, Fermat’s little theorem, and other selected topics. (Fall even years.)
Components: Lecture
Prereqs/Coreqs: P: MATH 2640 and junior standing

Advanced Calculus
Study, through formal proof, of sequences, limits, continuity, differentiation, integration, infinite series, and uniform convergence. (Fall)
Components: Lecture
Prereqs/Coreqs: P: MATH 2840 with a grade of "C" or better

Complex Variables
Complex numbers, complex functions, differentiation, elementary functions, integration, and infinite series. (Spring even years.)
Components: Lecture
Prereqs/Coreqs: P: MATH 2840 with a grade of "C" or better

Topics in Modern Mathematics
Topics to be selected by the instructor.
Components: Lecture
Prereqs/Coreqs: P: MATH 2840 with a grade of "C" or better

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

Senior Seminar
Development of library research techniques, organization and presentation of research findings beyond those formed in existing courses. (Fall, Spring)
Components: Seminar
Prereqs/Coreqs: P: 12 credits of mathematics selected from MATH 3100 and above

Independent Study in Mathematics
Components: Independent Study

Mechanical Engineering Courses

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: Lecture
Prereqs/Coreqs: P: CHEMSTRY 1450 or 1240 and MATH 2740

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, Lecture
Prereqs/Coreqs: P: GENENG 2230 and GENENG 2930 and MATH 3630 and MECHNCHL 3430
MECHNCHL 3040  
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, Lecture  
Prereqs/Coreqs: P:CHEMISTRY 1450 or 1240; C: GENENG 2340

MECHNCHL 3230  
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: Lecture  
Prereqs/Coreqs: P: GENENG 2340 and MECHNCHL 3040

MECHNCHL 3300  
Fluid Dynamics  
Fluid properties, fluid statics, fundamental equations of fluid motion, dimensional analysis, external flow and boundary layers, viscous flow in pipes, compressible flow. (Fall, Spring)  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: MECHNCHL 2630 and GENENG 2230 and MATH 2840

MECHNCHL 3330  
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, Lecture  
Prereqs/Coreqs: P: MECHNCHL 3040 and a minimum grade of “C” in GENENG 2340

MECHNCHL 3430  
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, Lecture  
Prereqs/Coreqs: C: MATH 3630

MECHNCHL 3640  
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, Lecture  
Prereqs/Coreqs: P: MECHNCHL 3430; C: MECHNCHL 3300

MECHNCHL 3720  
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, Lecture  
Prereqs/Coreqs: P: MATH 4030; C: MECHNCHL 3030

MECHNCHL 3830  
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, Lecture  
Prereqs/Coreqs: P:GENENG 2230 or ENGRPHYS 3240

MECHNCHL 3950  
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

MECHNCHL 3970  
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
MECHNCHL 4330  
**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. Laboratory demonstrates the practical application of theoretical concepts. (Fall, Spring)  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: MECHNCHL 3030 and GENENG 2930  
3 credits

MECHNCHL 4430  
**Advanced Materials**  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: MECHNCHL 3040  
3 credits

MECHNCHL 4440  
**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, Lecture  
Prereqs/Coreqs: P: MECHNCHL 3040  
3 credits

MECHNCHL 4500  
**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, Lecture  
Prereqs/Coreqs: P: senior standing in engineering or consent of instructor  
3 credits

MECHNCHL 4520  
**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, Lecture  
Prereqs/Coreqs: P: MECHNCHL 2630  
3 credits

MECHNCHL 4550  
**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, Lecture  
Prereqs/Coreqs: P: MECHNCHL 3640  
3 credits

MECHNCHL 4560  
**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, Lecture  
Prereqs/Coreqs: P: MECHNCHL 3430 and MECHNCHL 3300  
3 credits

MECHNCHL 4600  
**Energy Systems Design**  
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.  
Components: Discussion, Laboratory, Lecture  
Prereqs/Coreqs: P: MECHNCHL 3640  
3 credits

MECHNCHL 4630  
**Internal Combustion Engine Design**  
Design of internal combustion engines for various applications. Gasoline engines, diesel engines, 4 stroke cycles and 2 stroke cycles.  
Components: Discussion, Laboratory, Lecture  
Prereqs/Coreqs: P: MECHNCHL 3640  
3 credits

MECHNCHL 4640  
**Mechanical Design of Internal Combustion Engines**  
Mechanical design and experimental development of internal combustion engines to meet comprehensive design criteria: marketability, thermodynamic performance, dynamic issues, efficiency, lubrication, emissions, economy, drivability, design for manufacture.  
Components: Laboratory, Lecture  
Prereqs/Coreqs: P: MECHNCHL 4730; C: MECHNCHL 4630  
3 credits

MECHNCHL 4650  
**Environmental Control Design**  
Theory and design of heating, air conditioning and refrigeration units. Heating and cooling loads for air conditioning, heat pump, psychrometry.  
Components: Discussion, Laboratory, Lecture  
Prereqs/Coreqs: P: MECHNCHL 3640 and MECHNCHL 4730  
3 credits

MECHNCHL 4720  
**Thermal Systems Laboratory**  
Instrumentation and measurement techniques in thermal systems; verification of basic principles; laboratory tests on components of thermal systems; experimental approach for solving engineering problems; application of computer to data acquisition and data processing. (Fall, Spring)  
Components: Laboratory  
Prereqs/Coreqs: P: MECHNCHL 3300 and MECHNCHL 3640. C: MECHNCHL 3720  
2 credits
Thermo-Fluid Systems Design
A course treating the concepts of Thermodynamics, Fluid Mechanics, Heat Transfer, and mechanics in a unified presentation. Particular emphasis will be directed towards applications to actual physical systems including the gas power cycles, refrigeration cycles, heat exchangers, ideal gas mixtures, psychrometrics and 1st law combustion. Some design of devices involved in these applications will also be included. (Fall, Spring)
Components: Discussion, Laboratory, Lecture
Prereqs/Coreqs: P:MECHNCHL 3300 and MECHNCHL 3640

MECHNCHL 4740 3 credits
Mechanical Systems Design
Advanced topics in the design of machines and mechanical systems. Selection of machine elements implementing the design process and considering factors such as: the environment, manufacturability, assembly, ergonomics, aesthetics, safety, societal impact, reliability and maintainability. Also, economic factors, fits and tolerances, design communication and ethics. Application of fundamental concepts via a project. (Fall, Spring)
Components: Discussion, Laboratory, Lecture
Prereqs/Coreqs: P: MECHNCHL 3300

MECHNCHL 4750 3 credits
Computational Methods in Engineering
Use of digital computers to solve equations encountered in mechanical engineering problems. Numerical integration and differentiation, solution of linear and nonlinear equations, ordinary and partial differential equations (finite element and finite difference methods), systems of equations (matrix equations). Programming using MATLAB. How to choose the proper numerical method, and pitfalls that lead to bad solutions.
Components: Lecture
Prereqs/Coreqs: P: MATH 3630 and MECHNCHL 3430

MECHNCHL 4800 3 credits
Finite Element Method
Introduction to the finite element method. Emphasis on truss, beam and frame analysis, plane stress, plane strain, axisymmetric and three-dimensional stress analysis. Dynamic analysis and field problems, such as heat transfer. Readily available finite element computer programs utilized to solve stress analysis, heat transfer and other engineering related problems.
Components: Discussion, Lecture
Prereqs/Coreqs: P: MATH 3630 and MECHNCHL 3430 and MECHNCHL 3330

MECHNCHL 4830 3 credits
Mechatronics
Study of electro-mechanical systems and their interfaces. Programming of microcontrollers, fractional-horsepower motors, sensors, programmable logic controllers (PLCs), and control electronics. Binary number systems and logic are introduced. Application of control theory. Project
Components: Laboratory, Lecture
Prereqs/Coreqs: C: MECHNCHL 4330 or ELECTENG 3310

MECHNCHL 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, Lecture
Prereqs/Coreqs: P: MECHNCHL 3030

MECHNCHL 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, Lecture
Prereqs/Coreqs: P: MECHNCHL 3830

MECHNCHL 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: Lecture
Prereqs/Coreqs: P: MECHNCHL 3230 and MECHNCHL 3300 and MECHNCHL 3830 and MECHNCHL 4730

MECHNCHL 4980 1 - 3 credits
Current Topics in Engineering
In-depth study of a current topic of interest to the engineering profession. The topic to be covered will be identified in the course title.
Components: Discussion, Laboratory, Lecture

MECHNCHL 4990 1 - 3 credits
Independent Study
Advanced study in the area of specialization.
Components: Independent Study
Prereqs/Coreqs: P: senior standing
Music Applied Courses

MUAP 1010 1 credit
First Semester Lessons
Components: Independent Study

MUAP 1110 1 credit
Second Semester Lessons
Components: Independent Study

MUAP 2010 1 credit
Third Semester Lessons
Components: Independent Study

MUAP 2110 1 credit
Fourth Semester Lessons
Components: Independent Study

MUAP 3010 1 credit
Fifth Semester Lessons
Private instruction in voice, piano, and orchestra and band instruments. Must be concurrently enrolled in Wind Ensemble, Symphony Band, Sinfonietta, University/Community Orchestra, Marching Pioneers, Concert Choir, University Singers, or Chamber Choir. One half-hour lesson per week per credit. There are no applied music fees above the regular tuition charge, but special course fees (i.e. purchase of music) may apply. Lesson times and instructors to be arranged.
Components: Independent Study
Prereqs/Coreqs: P: must have successfully completed upper divisional examination before enrolling; C: participation in major ensemble as listed above

MUAP 3110 1 credit
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 1 credit
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 1 credit
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 2 credits
Recital Semester
For students who are finishing their performance training to prepare 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 1 credit
Bodywork for Musicians
Practically based course in posture and psycho-physical awareness. Specific topics include Alexander Technique and Feldenkrais. Required for all music majors.
Components: Lecture

MUSIC 1100 1 credit
Jazz Ensemble
Open to performers by permission from faculty within respective field.
Components: Laboratory

MUSIC 1190 1 credit
World Rhythm Rudiments
Methods and techniques from around the world will be used to develop rhythmic concepts, reading skills and improvisation through the use of natural sticking, rudiments, and patterns used in drumming from Western, African, Brazilian and Afro Cuban traditions.
Components: Lecture

MUSIC 1200 1 credit
Percussion Ensemble
Open to performers by permission from faculty within respective field.
Components: Laboratory

MUSIC 1220 2 credits
Diction for Singers
Fundamentals of phonetics and sound production as applied to singing in French, German and Italian.
Components: Lecture
Computer Applications in Music Education
This course is an introduction to computer applications in music education using the Finale Music Notation Software Program and Apple Works 6. With Finale students will create music scores, learn how to add music markings, extract and print parts and how to use midi keyboard. With Apple 6 students will create spread sheets for grading private lessons and band attendance, do a mail merge and create word processing documents. Students will be required to use the WWW to find sheet music, musical databases and recordings for use in teaching and research.
Components: Lecture

Brass Ensemble
Open to performers by permission from faculty within respective field.
Components: Laboratory

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: Lecture

Jazz Combo
Open to performers by permission from faculty within respective field.
Components: Laboratory

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: Lecture

Chamber Ensemble
Open to performers by permission from faculty within respective field.
Components: Laboratory

University/Community Orchestra
The study and performance of symphonic repertoire. Open to all university students and area musicians. Placement audition required.
Components: Laboratory

Aural Skills I
To be taken with Theory 1730. Singing intervals, rhythms and melodies at sight.
Components: Lecture
C: MUSIC 1730

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: Lecture
GE: Fine Arts

Woodwind Ensemble
Open to performers by permission from faculty within respective field.
Components: Laboratory

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.
Components: Laboratory

Aural Skills II
To be taken with Theory 1830. Singing intervals, rhythms and melodies at sight.
Components: Lecture
C: MUSIC 1830

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 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: Lecture

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: Lecture
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 THEATRE
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: Lecture
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: Lecture

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: Lecture
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: Lecture

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: Lecture
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: Lecture
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
<th>Course Title</th>
<th>Description</th>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 2530</td>
<td>1 credit</td>
<td><strong>Aural Skills III</strong></td>
<td>Singing intervals, rhythms, and melodies at sight. Harmonic and melodic dictation. To be taken concurrently with Music 2140.</td>
<td>Lecture</td>
</tr>
<tr>
<td>MUSIC 2550</td>
<td>3 credits</td>
<td><strong>American Music</strong></td>
<td>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 which affects its development. May be used to partially satisfy the university humanities general requirement.</td>
<td>Lecture</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Components:</strong> Lecture</td>
<td>GE: Fine Arts</td>
<td></td>
</tr>
<tr>
<td>MUSIC 2570</td>
<td>1 credit</td>
<td><strong>High Woodwind Techniques</strong></td>
<td>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.</td>
<td>Laboratory</td>
</tr>
<tr>
<td>MUSIC 2570</td>
<td>1 credit</td>
<td><strong>History of Jazz</strong></td>
<td>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.</td>
<td>Lecture</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Components:</strong> Lecture</td>
<td>GE: Fine Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Prereqs/Coreqs:</strong> P: MUSIC 1590</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSIC 2650</td>
<td>3 credits</td>
<td><strong>History of American Musical Theatre</strong></td>
<td>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 &amp; 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.</td>
<td>Lecture</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Components:</strong> Lecture</td>
<td>GE: Fine Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Prereqs/Coreqs:</strong> P: MUSIC 1590</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSIC 2750</td>
<td>3 credits</td>
<td><strong>History of Rock and Roll</strong></td>
<td>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&amp;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.</td>
<td>Lecture</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Components:</strong> Lecture</td>
<td>GE: Fine Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Prereqs/Coreqs:</strong> P: MUSIC 1590</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSIC 2770</td>
<td>1 credit</td>
<td><strong>Diction I</strong></td>
<td>Fundamentals of phonetics and sound production as applied to singing Italian and English. Instruction in the International Phonetic Alphabet.</td>
<td>Lecture</td>
</tr>
<tr>
<td>MUSIC 2770</td>
<td>1 credit</td>
<td><strong>Diction II</strong></td>
<td>Fundamentals of phonetics and sound production as applied to singing German and French. Continuation of material from Music 2770.</td>
<td>Lecture</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Components:</strong> Lecture</td>
<td>P: MUSIC 2770</td>
<td></td>
</tr>
<tr>
<td>MUSIC 2850</td>
<td>3 credits</td>
<td><strong>Beginning Conducting</strong></td>
<td>The development of basic conducting techniques and an emphasis on practical application of conducting vocal and instrumental music.</td>
<td>Lecture</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Components:</strong> Lecture</td>
<td>P: MUSIC 1830</td>
<td></td>
</tr>
<tr>
<td>MUSIC 2920</td>
<td>2 credits</td>
<td><strong>Elementary Music Methods for Non-Music Majors</strong></td>
<td>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.</td>
<td>Lecture</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Components:</strong> Lecture</td>
<td>P: MUSIC 1830</td>
<td></td>
</tr>
</tbody>
</table>
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: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture

MUSIC 3380 2 credits
Choral Literature
Comprehensive study of choral literature from polyphony’s origins through to the present.

Components: Lecture
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: Lecture

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 around 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: Lecture
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: Lecture
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: Lecture
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 around 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: Lecture
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: Lecture
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 improvize jazz music in a big band and small group setting at the middle and high school level.
Components: Lecture

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: Lecture
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: Lecture
Prereqs/Coreqs: P: MUSIC 3140

MUSIC 3820 2 credits
**Form and Analysis**
A study of tonal music in small and large forms.
Components: Lecture
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: Lecture
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: Lecture

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: Lecture
Prereqs/Coreqs: P: MUSIC 2220

MUSIC 4010 1 - 3 credits
**Music Workshop**
Components: Lecture

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 handing of asymmetrical time signatures will be added to the conductor’s repertoire.
Components: Lecture
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: Lecture
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: Lecture
Prereqs/Coreqs: P:MUSIC 3920

MUSIC 4500 1 - 3 credits
**Seminar in Music**
A critical examination of one area within the field of music, 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 Courses**

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: Lecture
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 philosophic aspects of nuclear war will be given careful analysis, interpretation and discussion in lecture/readings/discussion format. (Spring)
Components: Lecture
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. (Fall)
Components: Lecture
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: Lecture
GE: Historical Perspective-2nd course only OR 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: Lecture
GE: Historical Perspective-2nd course only OR Humanities

PHLSPHY 2530 3 credits
**Ethics**
The major types of theories of right and wrong that underlie moral evaluations. (Fall)
Components: Lecture
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: Lecture
GE: Humanities
Prereqs/Coreqs: sophomore standing to enroll in this class
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Components:</th>
<th>GE:</th>
<th>Prereqs/Coreqs:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHLSPHY 2630</td>
<td>Logic</td>
<td>3</td>
<td>An introductory study of the structure of reasoning and argumentation with practical applications in the socio-political sphere, science and philosophy. (Every other Spring)</td>
<td>Lecture</td>
<td>Humanities</td>
<td>P: three credits in philosophy or consent of instructor</td>
</tr>
<tr>
<td>PHLSPHY 2730</td>
<td>Introduction to the Hebrew Scriptures</td>
<td>3</td>
<td>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)</td>
<td>Lecture</td>
<td>Humanities</td>
<td>P: three credits in philosophy or consent of instructor</td>
</tr>
<tr>
<td>PHLSPHY 2930</td>
<td>Major Traditions in Eastern Religions</td>
<td>3</td>
<td>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. (Every other Fall)</td>
<td>Lecture</td>
<td>Humanities, International Education</td>
<td>P: three credits in philosophy or consent of instructor</td>
</tr>
<tr>
<td>PHLSPHY 2940</td>
<td>Special Topics in Philosophy</td>
<td>3</td>
<td>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)</td>
<td>Lecture</td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td>PHLSPHY 3130</td>
<td>Philosophy of History</td>
<td>3</td>
<td>An examination of principal theories regarding what meaning may or may not be discovered in history. (Every other Spring)</td>
<td>Lecture</td>
<td>Humanities</td>
<td>P: three credits in philosophy or consent of instructor</td>
</tr>
<tr>
<td>PHLSPHY 3230</td>
<td>Philosophy of Religion</td>
<td>3</td>
<td>An examination of major interpretations of what religion is and the significance for it of concepts regarding faith and reason, God, the invisible world, evil, and the nature and destiny of persons. (Every other Fall)</td>
<td>Lecture</td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td>PHLSPHY 3330</td>
<td>Ontology and Ethics</td>
<td>3</td>
<td>The ontological foundation of ethics in the thought of some major moral philosophers. (Every other Spring)</td>
<td>Lecture</td>
<td>Humanities</td>
<td>P: three credits in philosophy or consent of instructor</td>
</tr>
<tr>
<td>PHLSPHY 3530</td>
<td>Philosophy's Feminist Future: From Powerism to Personalism</td>
<td>3</td>
<td>With a focus on major representatives of philosophical thought, this course will examine ideas which have promoted civilization along sexist lines and other ideas which can contribute to the development of a new kind of civilization rooted in a respect for persons. (Every other Spring)</td>
<td>Lecture</td>
<td>Humanities</td>
<td>P: three credits in philosophy or WOMSTD 1130 or consent of instructor</td>
</tr>
<tr>
<td>PHLSPHY 3630</td>
<td>Philosophy of Law</td>
<td>3</td>
<td>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. (Every other Spring)</td>
<td>Lecture</td>
<td>Humanities</td>
<td>P: three credits in philosophy, CRIMLJUS 1130 or consent of instructor</td>
</tr>
<tr>
<td>PHLSPHY 3740</td>
<td>Continental Philosophy</td>
<td>3</td>
<td>An examination of topics and themes in 19th and 20th century Continental European philosophy.</td>
<td>Lecture</td>
<td>Humanities</td>
<td>P: PHLSHY 2430 or consent of instructor</td>
</tr>
<tr>
<td>PHLSPHY 3840</td>
<td>Existentialism</td>
<td>3</td>
<td>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.</td>
<td>Lecture</td>
<td>Humanities</td>
<td>P: PHLSHY 2430 or consent of instructor</td>
</tr>
</tbody>
</table>
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 minor

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, Lecture
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: Lecture
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: Lecture
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, Lecture
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: Lecture
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: Lecture
GE: Physical Education

PHYSED 1110 1 credit

Weight Training
Physical education activity.

Components: Laboratory
GE: Physical Education

PHYSED 1120 1 credit

Aerobic Weight Training
Components: Laboratory
GE: Physical Education
PHYSED 1130
Badminton
Components: Laboratory
GE: Physical Education

PHYSED 1140
Basketball
Components: Laboratory
GE: Physical Education

PHYSED 1150
Cycling
Components: Laboratory
GE: Physical Education

PHYSED 1190
Golf
Components: Laboratory
GE: Physical Education

PHYSED 1200
Self Defense
Components: Laboratory
GE: Physical Education

PHYSED 1210
Golf
A continuation of 1110.
Components: Laboratory
GE: Physical Education

PHYSED 1220
Hydroaerobics
Components: Laboratory
GE: Physical Education

PHYSED 1230
Jogging/Walking
Components: Laboratory
GE: Physical Education

PHYSED 1240
Racquetball
Components: Laboratory
GE: Physical Education

PHYSED 1250
Relaxation
Components: Laboratory
GE: Physical Education

PHYSED 1280
Personal Conditioning
Components: Laboratory
GE: Physical Education

PHYSED 1290
Racquetball/Badminton
Components: Laboratory
GE: Physical Education

PHYSED 1300
Personal Fitness
Components: Laboratory
GE: Physical Education

PHYSED 1310
Scuba Diving
Components: Laboratory
GE: Physical Education

PHYSED 1330
Cross-Country Skiing
Components: Laboratory
GE: Physical Education

PHYSED 1340
Soccer
Components: Laboratory
GE: Physical Education

PHYSED 1360
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
Dance Tech/Practice (Ballroom, Latin, Country)
Components: Laboratory
GE: Physical Education

PHYSED 1380
Triathlon Training
Components: Laboratory
GE: Physical Education

PHYSED 1390
Racquet Sports
The purpose of this activity class is to provide the student with the basic knowledge and fundamental skills for success at the beginning level of several racquet sports. Throughout the course of the semester, the student will learn how to play a variety of racquet sports to develop and maintain a health-enhancing level of personal fitness. Additionally, the rules, etiquette, and strategies of the games will be taught to enhance participation.
Components: Laboratory
GE: Physical Education

PHYSED 1400
Fitness Assessment and Awareness/Activity
Components: Laboratory
GE: Physical Education

PHYSED 1410
Swimming
Components: Laboratory
GE: Physical Education
PHYSED 1430  
**Tennis**  
Components: Laboratory  
GE: Physical Education

PHYSED 1440  
**Volleyball**  
Components: Laboratory  
GE: Physical Education

PHYSED 1450  
**Wallyball/Volleyball**  
Components: Laboratory  
GE: Physical Education

PHYSED 1460  
**Yoga / Pilates**  
Through the course of the semester the student will learn how to use various Yoga and Pilates exercises to develop and maintain a health enhancing level of personal fitness.  
Components: Laboratory  
GE: Physical Education

PHYSED 1530  
**Bowling**  
Components: Laboratory  
GE: Physical Education

PHYSED 1620  
**Aikido**  
Components: Laboratory

PHYSED 1630  
**Self-Defense**  
Components: Laboratory

PHYSED 1640  
**Downhill Skiing**  
Components: Laboratory  
GE: Physical Education

PHYSED 1720  
**Intermediate Weight Training**  
Components: Laboratory

PHYSED 2010  
**Aerobics/Hydroaerobics**  
Components: Laboratory

PHYSED 2020  
**First Aid/Accident Prevention/Community CPR**  
Instruction and demonstration in the principles of first aid and accident prevention, Red Cross and CPR instruction.  
Components: Lecture

PHYSED 2030  
**Health Education**  
To assist students toward a better understanding of personal and community health problems and of the agencies with which they may work.  
Components: Lecture

PHYSED 2040  
**Methods in Health, Nutrition, and Physical Education**  
The purpose of this class is to provide introductory content regarding health, nutrition, and physical education. Pedagogical methods and practical teaching experiences provided.  
Components: Lecture  
Prereqs/Coreqs: P:TEACHING 1230

PHYSED 2060  
**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: Lecture

PHYSED 2080  
**Movement Education**  
During this course, students will learn how to teach and spot for the basic level of gymnastics for K-12. Students will also learn how to teach musical structure and basic dance moves for a variety of folk and social dances for K-12.  
Components: Lecture

PHYSED 2320  
**Introduction to Physical Education and Health Promotion**  
Introduction to skills basic to the teaching of physical education; career orientation; teaching, Physical education majors, minors and concentrations in athletic coaching students only.  
Components: Lecture

PHYSED 2330  
**Adventure Education**  
This course presents the content, method, and safety of cooperative and initiative games. Teacher candidates will learn to use and implement a ropes course as a classroom for different age groups and diverse populations. Required for all PHYSED majors.  
Components: Lecture

PHYSED 2410  
**Team Sports**  
During this course physical education majors will develop an understanding of the teaching methods, cues and assessments used in teaching team sports to middle level and high school students, as they relate to the standards of National Association for Sport and Physical Education (NASPE). Examples of individual sports which could be covered: baseball/softball, basketball, football, floor hockey, lacrosse, soccer, volleyball, water polo.  
Components: Lecture

PHYSED 2430  
**Adventure Education Practicum**  
This practicum requires the Physical Education Teacher candidates to assist in the facilitation of groups who attend the UWP 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: Lecture
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 & field, wrestling.

Components: Lecture

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: Lecture
Prereqs/Coreqs: P: PHYSED 2320 and TEACHING 2010

PHYSED 3020 3 credits

**Physiology of Exercise**
The purpose of this class is to integrate basic concepts and relevant scientific information to provide the foundation for understanding nutrition, energy transfer, and exercise and training.

Components: Lecture
Prereqs/Coreqs: P: BIOLOGY 2140 or BIOLOGY 2340

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: Lecture
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: Lecture

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: Lecture
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: Lecture
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: Lecture

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 3360 1 credit

**Fitness Evaluation**
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:PHYSED 3360

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:PHYSED 3360

PHYSED 3400 2 credits

**Outdoor Activities/Water Safety Instruction (WSI)**
Components: Lecture

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: Lecture
PHYSED 3430 3 credits
**Teaching Children with Exceptional Abilities in Health and Physical Education**
Knowledge provided regarding conditions which impede psychomotor functioning. A generic approach to adapting physical education to the needs of special populations. Information on assessment and IEP formation provided.
Components: Lecture
Prereqs/Coreqs: P: admission to the School of Education

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: Lecture
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: Lecture
Prereqs/Coreqs: P: admission to the School of Education and (BIOLOGY 2140 or BIOLOGY 2340)

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: Lecture
Prereqs/Coreqs: P: admission to the School of Education

PHYSED 3850 2 credits
**Nutrition**
Food nutrients and their relationships to health of children; integration of nutrition into the elementary school curriculum.
Components: Lecture

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: Lecture

PHYSED 4020 2 credits
**Psychology of Coaching**
The principles and techniques applicable to coaching interschool activities.
Components: Lecture

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: Lecture
Prereqs/Coreqs: P: admission to the School of Education

PHYSED 4320 2 credits
**Consumer Health**
A survey and analysis of today’s public health problems. An overview describing the relationship between the health of consumers and the use of products and services.
Components: Lecture

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: Lecture
Prereqs/Coreqs: P: admission to the 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  
**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  
**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 UWP 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: Lecture  
Prereqs/Coreqs: P: PHYSED 3500

PHYSED 4420  
**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  
**Current Issues in Health and Physical Education**  
Study of current topics in health and physical education.  
Components: Lecture

PHYSED 4450  
**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: Lecture  
Prereqs/Coreqs: P: BIOLOGY 2140 or BIOLOGY 2340

PHYSED 4470  
**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: admission to the School of Education

PHYSED 4520  
**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: Lecture  
Prereqs/Coreqs: P: PHYSED 4520

PHYSED 4840  
**Athletic Training/Rehabilitation Internship**  
An internship under the supervision of a certified athletic trainer.  
Components: Field Studies  
Prereqs/Coreqs: P: PHYSED 4620

PHYSED 4850  
**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  
**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  
**Level III Wellness-Fitness Internship**  
Off-Campus Internship at a Fitness Club, a Corporate Fitness Program, A YMCA/YWCA or Health related facility with PE department approval of site.  
Components: Field Studies

PHYSED 4940  
**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  
**Independent Study in Physical Education**  
Components: Independent Study

PHYSED 4970  
**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, Lecture  
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, Lecture  
GE: Natural Science  
Prereqs/Coreqs: P: MATH 1530 or MATH 2450 or math proficiency level of 30 or above
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, Lecture
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, Lecture
GE: Natural Science
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, Lecture
GE: Natural Science
Prereqs/Coreqs: P: PHYSICS 2530 or PHYSICS 2240 with a “C” or better; and P or C: MATH 2840

PHYSICS 2410  1 credit
PHYSICS OF SOUND
An introduction to acoustics with emphasis on engineering applications.
Components: Lecture
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, Lecture
Prereqs/Coreqs: P:PHYSICS 2340 with a “C” or better; CHEMISTRY 1450 or 1240  C: MATH 3630

Political Science Courses

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: Lecture
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: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: POLISCI 1130 or POLISCI 1230

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: Lecture
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: Lecture
GE: Social Sciences

POLISCI 1530  3 credits
INTRODUCTION TO PUBLIC POLICY
A survey and review of government public policy and public policy making. Investigation, differing explanations and alternative arguments about what government should and should not do including consideration of various public policies.
Components: Lecture
GE: Social Sciences

POLISCI 2430  3 credits
COMPARATIVE POLITICS
Non-American political systems and experiences of countries coping with political change; studies of models of values, stereotypes, incentives and sanctions within the network of interdependent elements that create a sense of publicness and authority.
Components: Lecture
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 and political science, and others. Analysis occurs within the contextual framework provided by guest presenters having expertise in areas of race and ethnic studies and women’s studies. 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. (Fall, Spring)
Components: Lecture
Cross Offerings: ECONOMIC 2940, ETHNSTDY 2940
GE: Ethnic and Gender, Social Sciences

POLISCI 3230  3 credits
INTRODUCTION TO PUBLIC ADMINISTRATION
The role of administration in modern American government, its basic characteristics and the problems of making it efficient and holding it responsible.
Components: Lecture
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.

Components: Lecture
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.

Components: Lecture
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: Lecture
Cross Offerings: 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: Lecture
Cross Offerings: 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. A comparison of the Anglo-American judicial system with that of continental Europe.

Components: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: POLISCI 1230

POLISCI 3530  3 credits

**State and Local Government**
Structure and functions of state and local government, implementation of public policy, governmental agencies and administrative services, and city-suburban and metropolitan issues. 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 the neighboring states.

Components: Lecture
GE: Social Sciences

POLISCI 3610  3 credits

**British Isles to 1714**
The political evolution of the English state and the national development and interactions of the English, Irish, Scottish, and Welsh peoples from their origins to 1714.

Components: Lecture
Cross Offerings: HISTORY 3610
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1010 or HISTORY 1020 or consent of instructor

POLISCI 3620  3 credits

**British Isles since 1714**
The political evolution of the British state and the national development and interactions of the English, Irish, Scottish, and Welsh peoples from 1714 until the present.

Components: Lecture
Cross Offerings: HISTORY 3620
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1010 or HISTORY 1020 or consent of instructor

POLISCI 3650  3 credits

**Political Theory**
The major contributions of Western normative political theory that underlie contemporary notions of power and political relationships.

Components: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: POLISCI 1130

POLISCI 3720  3 credits

**Politics of the Global Economy**
An analysis of the operation and powers of multinational corporations, their methods of influencing the electoral process, the legislative and executive branches in the United States and abroad; their future role in world economy and politics and development of the Third World countries.

Components: Lecture
GE: International Education, Social Sciences
Prereqs/Coreqs: P: junior standing

POLISCI 3730  3 credits

**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: Lecture
Cross Offerings: ETHNSTDY 3720
GE: Ethnic Studies, Social Sciences
Prereqs/Coreqs: P: POLISCI 1230 or consent of instructor

POLISCI 3750  3 credits

**International Human Rights**
This course examines the subject of international human rights primarily in the post-1945 era. The course involves the examination, analysis and discussion of major theories, legal norms, criminal procedures and state and international diplomacy in the human rights field. The course integrates theory and praxis with the case study method.

Components: Lecture
GE: Historical Perspective, International Education
Prereqs/Coreqs: P: POLISCI 133
Psychology Courses

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: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: POLISCI 1230

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: Lecture
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: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130

PSYCHLGY 2070 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: Lecture
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: Lecture
Cross Offerings: WOMSTD 2530
GE: Gender Studies, Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 or one course in women’s studies
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: Lecture
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: Lecture
GE: Social Sciences
Prereqs/Coreqs: P:PSYCHLGY 1130 and second semester sophomore standing

PSYCHLGY 3030  3 credits
**Learning and Behavior**
Basic theoretical principles and empirical investigations in the area of learned and unlearned behavior in animals, with applications to human behavior. (Every third semester)

Components: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 2230

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: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 2230

PSYCHLGY 3230  3 credits
**Adolescent Psychology**
The physical, emotional, social and intellectual characteristics and problems of the adolescent. (Fall, Spring)

Components: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: 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: Lecture
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, Lecture
Prereqs/Coreqs: P: PSYCHLGY 2230 with a "C" or better and MATH 1830 and Psychology major or consent of department chair
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: Lecture
Prereqs/Coreqs: P: MATH 1830 and PSYCHLGY 3960 with a "C" or better, a Psychology major or consent of department chair

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: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and sophomore standing

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: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and other prerequisites as appropriate to the topic

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: Lecture
Prereqs/Coreqs: P: PSYCHLGY 1130 and junior standing

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: Lecture
Prereqs/Coreqs: P: PSYCHLGY 2230 and a minimum of twelve 3000 level or higher credits in psychology or consent of instructor

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: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and junior standing

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, & evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student & 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 & 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 & mathematics. 4) Student must obtain recommendations from 2 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, Spring, Summer)

Components: Field Studies
Prereqs/Coreqs: P: junior standing

Individual Study in Psychology

(Fall, Spring, Summer)

Components: Independent Study
Prereqs/Coreqs: P: senior standing; 20 credits in Psych; 2.50 minimum gpa; 3.00 gpa in Psych; completion of all general university requirements in english, speech and math

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: Lecture
GE: Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 and junior standing
Reclamation Courses

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: Lecture
Cross Offerings: CRIMLJUS 4840
Prereqs/Coreqs: P: PSYCHLGY 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: Lecture
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 psychodiagnóstics. Practice procedures and applications are also emphasized. (Fall, Spring)
Components: Lecture
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: Lecture
Prereqs/Coreqs: P: PSYCHLGY 4930 or COUNSLED 7020 or consent of instructor

PSYCHLGY 4950
3 credits
**Human Service Work with Groups and Organizations**
Expands upon the approaches learned in Psychology 4930 and extends them to work with families, groups, organizations, and the community. Students learn the assessment and intervention techniques used by human services workers. This course emphasizes the general systems theory and the ecological perspective. (Every other Spring)
Components: Lecture
Prereqs/Coreqs: P: PSYCHLGY 4930 or COUNSLED 7020 or consent of instructor

RECLAM 1010
3 credits
**Introduction to Reclamation**
The basis for reclamation in ethics and practice. Applications of science, agriculture, engineering and law in reclamation problems answered through lecture and field presentations made by the major faculty members of the reclamation program and guest speakers from the profession.
Components: Laboratory, Lecture

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, Lecture

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, Lecture
Prereqs/Coreqs: P: BIOLOGY 3450 or RECLAM 1010 or consent of instructor

RECLAM 3880
3 credits
**Environmental Law**
A study of historical concepts and common law rules and their effect on the development of environmental law; examination of state and federal statutes, regulations and case law relating to land use, pollution control and preservation of natural resources; exploration of the legal frontiers of environmental protection and restoration.
Components: Lecture
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, Lecture
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: Lecture
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: Lecture
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

---

**Sociology Courses**

SOCIOLGY 1030 3 credits

**Principles of Sociology**
An introduction to the study of society. This course examines concepts such as group, social interaction, culture, norm, value, status, role, and deviance, and explores how these relate to organizations, institutions, stratification, and social behavior.

Components: Lecture
GE: Social Sciences

SOCIOLGY 1130 3 credits

**Introductory 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: Lecture
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: Lecture
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: Lecture
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: Lecture
Cross Offerings: WOMSTD 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, sex roles, deviance, population, resources, crime, war and peace, unemployment and economic disruption; consideration of the place of social planning.

Components: Lecture
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: Lecture  
GE: Social Sciences  
Prereqs/Coreqs: P: SOCIOLGY 1030  

SOCIOLGY 3230  3 credits  
Human Relations  
Social stratification based upon race and 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 which 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: Lecture  
Cross Offerings: 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: Lecture  
GE: Social Sciences  
Prereqs/Coreqs: P: SOCIOLGY 1030  

SOCIOLGY 3430  3 credits  
Social Research  
A survey of techniques of sociological research, including research design, data collection and data analysis, stress on alternative types of research procedures and their relative strengths and weaknesses.  
Components: Lecture  
GE: Social Sciences  
Prereqs/Coreqs: P: SOCIOLGY 1030 or POLISCI 1130  

SOCIOLGY 3530  3 credits  
Rural Sociology  
An introduction to the nature and consequences of change in contemporary rural society. Current conditions are placed in a historical context and future directions for agriculture and rural communities are considered. Special attention is paid to socio-economic and environmental impacts resulting from changes in agricultural technology, government policy, population shifts, and changes in the scale of food production. Differing visions regarding the future shape of rural America and the international food system will be considered.  
Components: Lecture  
GE: Social Sciences  

SOCIOLGY 3630  3 credits  
Sociology of the Family  
The family as a social system with emphasis on culture, group processes, and institutions interacting with the nuclear family and alternate types of family.  
Components: Lecture  
GE: Social Sciences  
Prereqs/Coreqs: P: SOCIOLGY 1030  

SOCIOLGY 3930  1 - 3 credits  
Topics in Sociology  
Designed to present to students specialized topics in the field of sociology for example, the sociology of medicine, 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 and competency and interests of staff. Topics will be announced ahead of time and student reaction elicited.  
Components: Lecture  

SOCIOLGY 4030  3 credits  
Social Organizations  
The organizations through which society sustains and perpetuates itself and its members; examination will range from the small group to the bureaucratic structure.  
Components: Lecture  
GE: Social Sciences  
Prereqs/Coreqs: P: SOCIOLGY 1030  

SOCIOLGY 4660  1 - 8 credits  
Cooperative Field Experience  
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and department.  
Components: Field Studies  

SOCIOLGY 4730  1 - 3 credits  
Individual Study  
Independent study supervised by a staff member; primarily for sociology minors.  
Components: Independent Study  

Software Engineering 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: Lecture  
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: Lecture
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: Lecture
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, Lecture
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: Lecture
Prereqs/Coreqs: P: COMPUTER 2630 and SOFTWARE 2730

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, Lecture
Prereqs/Coreqs: P: COMPUTER 2630 and SOFTWARE 3430 and (ELECTENG 3780 or COMPUTER 3230)

SOFTWARE 4330  3 credits

Software Engineering Project I
Emphasis in applying software engineering knowledge learned in this course and previous courses to a large, team-based, capstone project that spans two semesters. In-depth study of several software engineering topics introduced in earlier courses, such as requirements engineering; analysis and design methods; planning and estimation; project management; and metrics. An introduction to formal methods for specification and design. (Fall)

Components: Discussion, Laboratory, Lecture
Prereqs/Coreqs: P: SOFTWARE 3330

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, Lecture
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: Lecture

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, Lecture

SPANISH 1940 4 credits
Elementary Spanish
Continuation of Spanish 1840; language lab.
Components: Laboratory, Lecture
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, Lecture
GE: Humanities
Prereqs/Coreqs: P: SPANISH 1940 or equivalent

SPANISH 2940 4 credits
Intermediate Spanish
Continuation of Spanish 2840; language lab.
Components: Laboratory, Lecture
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 chairperson

SPANISH 3820 2 credits
Spanish Conversation and Composition I
This course stresses basic Spanish conversation as reflected in readings in the humanities (short stories, essays, social and cultural portrayals of the Hispanic world, etc.) and in real-life situations.
Components: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
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: Lecture
Prereqs/Coreqs: P: SPANISH 2940 or equivalent

SPANISH 4830  3 credits
**Introduction to Spanish Literature**
Reading of selected masterpieces of Spanish literature.
Components: Lecture
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: Lecture
GE: Humanities
Prereqs/Coreqs: P: SPANISH 2940 or equivalent

**Speech Communication Courses**

SPEECH 1010  2 credits
**Public Speaking**
Students learn the fundamental theories and concepts of public communication and practice researching topics, organizing material, and presenting speeches with accompanying appropriate and natural nonverbal communication.
Components: Lecture
GE: Speech

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: Lecture
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: Lecture
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. Not for BILSA majors.
Components: Lecture
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: Lecture
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: Lecture

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
**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: Lecture
Prereqs/Coreqs: P: SPEECH 1010

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. Not for BILSA majors.
Components: Lecture
GE: Social Sciences OR Speech

SPEECH 3500  3 credits
**Teaching Methods in Speech Communication**
Students learn curriculum, test & measurement, setting course objectives, and setting course structure for drama, speech, debate, and other speech related courses and activities.
Components: Lecture
Teacher Education Courses

**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: Lecture

  Prereqs/Coreqs: P: SPEECH 1010

---

**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. (Occasionally)

  Components: Lecture

  Cross Offerings: ENGLISH 4020

  GE: Humanities-2nd course only

  Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

---

**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: Lecture

---

**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

---

**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: Lecture

---

**TEACHING 2010** 1 credit
**Computer Applications in Education**
An introduction to the use of computers in the classroom.

  Components: Lecture

---

**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: Lecture

---

**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.

  Components: Lecture

---

**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: Discussion, Lecture

---

**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, Lecture

---

**TEACHING 3040** 4 credits
**Reading, Literacy, and Literature I**
Focus on beginning reading techniques, innovations and approaches to reading, phonics, and other decoding strategies in primary school; planning and teaching reading lessons; assessing success in reading; examining the historical value of literature for children; integrating literature into the reading program; laboratory experiences in elementary classrooms.

  Components: Laboratory, Lecture

  C: TEACHING 3130 and TEACHING 3240 and TEACHING 3730 and TEACHING 4420

---

**TEACHING 3110** 2 credits
**Key Concepts of Middle Level Education**
This course is intended to provide students with an introductory understanding of the philosophy and organization of middle level education. Emphasis is directed toward programmatic considerations.

  Components: Lecture

  Prereqs/Coreqs: P: admission to the School of Education and TEACHING 1230; C: TEACHING 3120
TEACHING 3120 2 credits
Characteristics of Transescents
This course focuses on the physical, intellectual, emotional and social development of young adolescents.
Components: Lecture
Prereqs/Coreqs: P: TEACHING 1230; C: TEACHING 3110

TEACHING 3130 3 credits
K-4 Methods for Cognitive Development
Teaching strategies and classroom management techniques appropriate for kindergarten and the primary grades. (Laboratory/Field experience)
Components: Lecture
C: TEACHING 3040 and TEACHING 3240 and TEACHING 3730 and TEACHING 4420

TEACHING 3230 3 credits
Teaching Science at the Middle and Secondary Schools
Methods, procedures and materials for science curriculum and instruction in the middle and secondary school. The School of Education knowledge base as it applies to science instruction is explored. Required of majors and minors in the natural sciences. (Field experience: 30 hours) (Spring)
Components: Lecture
Prereqs/Coreqs: P: admission to the School of Education

TEACHING 3240 3 credits
Pre-K Methods for Cognitive Development
Theory of cognitive development of infants, toddlers and preschool children. Age-appropriate activities in the areas of health, math, science, social studies, ethnic studies, environmental education and creative thinking for preschool level. (Laboratory/Field experience)
Components: Lecture
C: TEACHING 3040 and TEACHING 3130 and TEACHING 3730 and TEACHING 4420

TEACHING 3320 3 credits
Introduction to Inclusion
This course will expose students to several theories that impact the teaching and the learning process with a focus on the learner with exceptional learning needs. (Field experience: 15 hours)
Components: Discussion, Lecture
Prereqs/Coreqs: P: TEACHING 2130 or PSYCHLGY 3130 or PSYCHLGY 3230 or TEACHING 1230 or PHYSED 3230 or consent of instructor

TEACHING 3530 3 credits
Teaching History and Social Studies at the Middle and Secondary Schools
A study of the goals, skills, issues, materials and the role of history and social studies instruction in middle and high schools. The School of Education knowledge base as it applies to history and social studies instruction is explored. (Field experience: 30 hours) (Spring)
Components: Lecture
Prereqs/Coreqs: P: admission to the School of Education

TEACHING 3630 3 credits
Ethnic and Gender Equity in Education
To increase an appreciation, understanding, and awareness of ethnic and gender equity issues in the educational process and in society. The student will view equity issues through research, historical, philosophical, sociological, and psychological perspectives and the implications that each arena has on the lives of all of us. (Field experience 25 hours)
Components: Discussion, Lecture
Cross Offerings: ETHNSTDY 3630, WOMSTD 3630
GE: Ethnic and Gender

TEACHING 3640 3 credits
Creative Development in Early Childhood
Theories and techniques for the enhancement of creative expression in young children. Age-appropriate activities in the areas of art, music, movement and dramatic play.
Components: Lecture

TEACHING 3730 4 credits
Guidance, Assessment and Instruction 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. (Field experience: 12 hours of observation-developmental assessment.)
Components: Laboratory, Lecture
Prereqs/Coreqs: C: TEACHING 3040 and TEACHING 3130 and TEACHING 3240 and TEACHING 4420

TEACHING 3840 4 credits
Developmental Reading and Language Arts in Content Areas for the Middle/Secondary Grades
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: Lecture

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, Lecture
Prereqs/Coreqs: P: TEACHING 2010
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, transcecents, and adolescents with SLD and EBD. (Fall and even Summers)
Components: Lecture
Prereqs/Coreqs: P: admission to the School of Education

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, Lecture
Prereqs/Coreqs: P: TEACHING 3040

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: Lecture
Prereqs/Coreqs: P: admission to the School of Education

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: Lecture

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

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, Lecture
Prereqs/Coreqs: P: admission to the School of Education; C: Teaching 4140

Pre-Student Teaching and Seminar in an Inclusionary Environment
Observation of children/youth in learning situations, participation in learning activities of the classroom, teaching several lessons, and evaluation of teaching-learning experiences in an CWD environment. Required of students working towards a special education/inclusion minor.
Components: Lecture
Prereqs/Coreqs: P: admission to the School of Education

Teaching Mathematics and Science in Early Childhood and Elementary Settings
This course addresses standards, methods, theories, and materials related to teaching mathematics and science in early childhood and elementary settings.
Components: Laboratory, Lecture
Prereqs/Coreqs: P: a "C" or better in MATH 3030 and admission to the School of Education. C: TEACHING 4090

Assessing Children with Disabilities (CWD)
A survey of psychological testing with emphasis on the evaluation, administration, interpretation, and statistical analysis of the results of psychological testing devices and techniques. (Spring)
Components: Lecture
Prereqs/Coreqs: P: admission to the School of Education
Transitions for Children with Disabilities (CWD)
This course is designed to help teachers acquire knowledge and develop skills and strategies that will help them make school learning more relevant to life outside of and after K-12 school. Students will study and evaluate developmental career and vocational education, transition, and education for employment programs and approaches. Course emphasis is on development of educational approaches and programs for students with exceptional educational needs. (Spring and odd Summers)
Components: Lecture
Prereqs/Coreqs: P: admission to the School of Education

Pre-Student Teaching at Middle/Secondary Level
Observations of youth in learning situations, participation in the learning activities of the classroom, teaching several lessons, and evaluation of teaching-learning experiences. Required of students who are preparing to teach 10-21, middle/secondary, or B-21 special subject majors. Students should take this course concurrently with the appropriate methods. (Field experience: 40 hours per credit)
Components: Lecture
Prereqs/Coreqs: P: admission to the School of Education

Advising, Interaction and Communication
This course focuses on the classroom counseling skills required of middle school teachers to include listening, group dynamics, encouragement and non-verbal communication. The emphasis of the course will be on group guidance activities in the classroom setting. (Spring, Summer)
Components: Lecture
Prereqs/Coreqs: P: admission to the School of Education; TEACHING 3110 and TEACHING 3120; C: TEACHING 4620

Student Teaching - Early Childhood
Components: Field Studies
Prereqs/Coreqs: P: admission to the School of Education

Senior Seminar
This course provides a balanced view of the sociological, philosophical, and ethical forces affecting early childhood/middle childhood education in America. Students will re-model lesson plans with critical thinking strategies and reflect on prior experiences in schools in order to form judgments about ethical teaching behavior.
Components: "Laboratory, Seminar
Prereqs/Coreqs: P:TEACHING 3130 and TEACHING 3240 and TEACHING 3040 and TEACHING 3730 and TEACHING 4420

Student Teaching B-11 Kindergarten
Components: Field Studies
Prereqs/Coreqs: P:TEACHING 3040 and TEACHING 3130 and TEACHING 3240 and TEACHING 3730 and TEACHING 4420 C: TEACHING 4360 and TEACHING 4990

Administration and Family Relations in Early Childhood
Development of managerial and leadership roles, knowledge of requirements for licensure and licensing, effective communication with staff and parents, community relations, and advocacy.
Components: Lecture
Prereqs/Coreqs: P: TEACHING 2210

Student Teaching Elementary
Components: Field Studies
Prereqs/Coreqs: C: TEACHING 4260 and TEACHING 4990

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: Lecture
Prereqs/Coreqs: P: TEACHING 2210 or TEACHING 1230; C: TEACHING 3040 and TEACHING 3130 and TEACHING 3240 and TEACHING 3730

Student Teaching 10-14
Components: Field Studies
Prereqs/Coreqs: P:TEACHING 4050 or TEACHING 4220; C: TEACHING 4990

Current Topics in Education
Study of a selected topic determined by an identified need. For example: current issues, ideas and topics of interest to a particular group of teachers.
Components: Lecture

Student Teaching 10-21 Secondary
Components: Field Studies
Prereqs/Coreqs: P:TEACHING 4050 or TEACHING 4220; C: TEACHING 4460 and TEACHING 4990

Teaching Transescents
This course provides an overview of the curricular and instructional practices appropriate for the young adolescent learner. Issues, trends and research relevant to effective middle level practices will be discussed. (Spring, Summer)
Components: Lecture
Prereqs/Coreqs: P: admission to the School of Education and TEACHING 3110 and TEACHING 3120; C: TEACHING 4220

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: Lecture
Prereqs/Coreqs: P: junior standing or consent of instructor
TEACHING 4660  
**Student Teaching B-21**  
Components: Field Studies  
Prereq/Coreq: P:TEACHING 4210 or PHYSED 4530; C: TEACHING 4990

TEACHING 4670  
**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: Lecture  
Cross Offerings: ENGLISH 4670  
Prereq/Coreq: P:ENGLISH 1130 and ENGLISH 1230

TEACHING 4710  
**Independent Study in Education**  
Supervised individual study of a topic selected by the student with staff approval.  
Components: Independent Study

TEACHING 4730  
**Working with Families of Children with Disabilities (CWD)**  
Course enables teachers and other professionals to provide parents and other family members with knowledge and skills to become full partners in the educational process by learning advocacy techniques. Professionals need more information relative to parent’s needs and participation. Identification of needs and concerns of family members of persons with disabilities should lead to design of programs that facilitate family participation in all phases of schooling process. Teachers and parents working together should lead to more effective outcomes for students with disabilities as they go through school and prepare to live, work and recreate in the community as adults.  
Components: Lecture

TEACHING 4750  
**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.  
( Occasionally)  
Components: Lecture  
Cross Offerings: ENGLISH 4740

TEACHING 4760  
**Internship in Teaching**  
This course is designed for those teacher education candidates who have been hired as intern teachers by school districts to fulfill the Department of Public Instruction required student teaching practicum. As part of this course, the teacher candidate will complete the professional teacher education graduation portfolio.  
Components: Field Studies  
Prereq/Coreq: P:TEACHING 4120 or TEACHING 4050 or TEACHING 4210 or (TEACHING 3040 and TEACHING 3130 and TEACHING 3240 and TEACHING 3730 and TEACHING 4420); C: TEACHING 4990

TEACHING 4830  
**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: Lecture

TEACHING 4990  
**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 University of Wisconsin-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: Lecture  
Prereq/Coreq: P: admission to School of Education and admission to student teaching

---

## Theatre Courses

**THEATRE 1130**  
**Introduction to the Theatre**  
A survey of the historical, literary and practical elements of the theatre.  
Components: Lecture  
GE: Fine Arts

**THEATRE 1230**  
**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, Lecture

**THEATRE 1340**  
**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: Lecture

**THEATRE 1430**  
**Oral Interpretation of Literature**  
Theory and practice of the oral communication of the major prose and poetic forms of literature.  
Components: Lecture

**THEATRE 1930**  
**Voice and Diction**  
The study of the speaking voice; vocal production, articulation, pronunciation and interpretation text. (Every other Spring - even years)  
Components: Lecture
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: Lecture
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, Lecture

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: Lecture

THEATRE 2950 3 credits

**Movement for Theatre**
An exploration of the fundamentals of movement and body awareness which is necessary for acting in theatre.

Components: Lecture

THEATRE 3130 3 credits

**Play Analysis**
An introduction to Formalist analysis of dramatic literature emphasizing a play’s plot, character, themes, dialogue, images, tempo/rythm 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: Lecture
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, Lecture
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: Lecture

THEATRE 3240 3 credits

**Costume Design**
Discussion and project work in the development and presentation of costumes for the theatre.

Components: Laboratory, Lecture
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, Lecture
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: Lecture

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, Lecture
Prereqs/Coreqs: P: THEATRE 2730

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, Lecture
Prereqs/Coreqs: P: THEATRE 2730

THEATRE 4210 3 credits

**Dramatic Literature I**
Survey of dramatic literature from 1660-1945. (Every other fall - odd years)

Components: Lecture
Prereqs/Coreqs: P: THEATRE 1130

THEATRE 4220 3 credits

**Dramatic Literature II**
A continuation of THEATRE 4210. A survey of dramatic literature from 1945 to the present. (Every other Spring - even years)

Components: Lecture
GE: Fine Arts
Prereqs/Coreqs: P: THEATRE 1130
THEATRE 4530
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: Lecture
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: Lecture
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: Lecture
Prereqs/Coreqs: P: consent of instructor

THEATRE 4930
3 credits
Senior Capstone
Senior thesis project in acting, directing and design.
Components: Independent Study
Prereqs/Coreqs: P: consent of instructor

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: Lecture

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: Lecture
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: Lecture
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: Lecture
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 prereqs/coreqs (if any) as determined by the sponsoring program, department, or school. Course instructor must be a member of the College of Engineering, Mathematics and Science. May be used to fulfill the general education requirement in international education. If taken for less than 3 credits, other credits from the approved list of courses in international education are required in order to fulfill the 3-credit general education requirement.
Components: Lecture
GE: International Education

UW-Platteville Study Courses

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: Lecture
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: Lecture

Women’s and Gender Studies Courses

WOMSTD 1130  3 credits
Introduction to Women’s 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: Lecture
GE: Gender Studies, Humanities OR Social Science

WOMSTD 2150  3 credits
Introduction to Gay Studies
Introduction to Gay Studies is an interdisciplinary course covering the history, culture, and politics of gay men, lesbians, bisexuals, and transgendered persons around the world. The course seeks to theorize, document, uncover, and revise our existing knowledge about same-sex attraction and gender identity and also examine a wide range of related historical figures and events. Using the lenses of social science, science, and the humanities, the course explores ways in which sexual orientation and gender limit and expand individual experience.
Components: Lecture
Cross Offerings: ENGLISH 2150
GE: Gender Studies, Humanities-2nd course only,
International Education

WOMSTD 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: Lecture
Cross Offerings: SOCIOLOGY 2230
GE: Gender Studies, Social Sciences

WOMSTD 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: Lecture
GE: Gender Studies, Physical Education-Wellness

WOMSTD 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: Lecture
Cross Offerings: PSYCHLGY 2530
GE: Gender Studies, Social Sciences
Prereqs/Coreqs: P: PSYCHLGY 1130 or one course in women’s studies

WOMSTD 2730  3 credits
Women in Science and Engineering
This course deals with the issues which 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: Lecture
GE: Gender Studies, Social Sciences

WOMSTD 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: Lecture
Cross Offerings: ENGLISH 2830
GE: Gender Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

WOMSTD 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: Lecture
Cross Offerings: "ENGLISH 2930, ETHNSTDY 2930
GE: Ethnic and Gender, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

WOMSTD 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 GLBTQ students.
Components: Lecture
Cross Offerings: ENGLISH 3110
GE: Gender Studies, Humanities-2nd course only
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
<th>Components</th>
<th>Cross Offerings</th>
<th>GE:</th>
<th>Prereqs/Coreqs</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOMSTD 3170</td>
<td>3</td>
<td>Space, Place, and Gender</td>
<td>An introduction to gender and geography. The role of gender in the study of geography, which is concerned with places, linkages, patterns of flow, locations, landscape, and the social/political/economic production of space. Components: Discussion, Lecture Cross Offerings: GEOGRAPHY 3170 GE: Gender Studies, Social Sciences</td>
<td></td>
<td></td>
<td>Gender Studies</td>
<td></td>
</tr>
<tr>
<td>WOMSTD 3200</td>
<td>3</td>
<td>Gender and Popular Culture</td>
<td>This course examines the theoretical and practical ways that popular culture represents, creates, and challenges stereotypes of women, men, and differently gendered people. Students will explore dominant strategies and theories used in the creation and analysis of advertising, television, music, movies, and popular literature, as well as the emerging commercial media of Internet advertising, digitized movies, and blogs. We will focus primarily, but not exclusively on popular culture experienced within (or exported from) the United States. (Spring odd years) Components: Lecture Cross Offerings: COMMNCTN 3200 GE: Gender Studies, Social Sciences Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230 and COMMNCTN 1630 or WOMSTD 1130</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WOMSTD 3280</td>
<td>3</td>
<td>Gay and Lesbian Literature</td>
<td>While focusing primarily on contemporary gay and lesbian fiction, this course also provides an overview of the evolution of international gay and lesbian literature from its beginnings to the present, including such authors as Sappho, Hafiz, Sadi, Whitman, Wilde, Cather, Woolf, Forster, Gide, Hughes, Lorca, Rimbaud, Stein, Baldwin, Bishop, Ginsberg, and Lorde. Components: Lecture Cross Offerings: ENGLISH 3280 GE: Gender Studies, Humanities Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WOMSTD 3330</td>
<td>2-3</td>
<td>Topics in Women's Studies</td>
<td>Selected topics in women's 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: Lecture GE: Gender Studies Prereqs/Coreqs: P: three credits in women studies</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WOMSTD 3340</td>
<td>3</td>
<td>Management, Gender &amp; Race</td>
<td>This course reviews the changing nature of management and explains why gender and race/ethnicity have become important concerns of business. It examines the status of women and people of color in managerial or administrative positions and discusses socialization processes, stereotypes, equal employment opportunity laws, diversity management, illegal harassment, and power in organizations. Networking, mentoring, work/life balance, and career planning also are addressed. Components: Lecture Cross Offerings: &quot;BUSADMIN 3340, ETHNSTDY 3340 GE: Ethnic and Gender Prereqs/Coreqs: P: BUSADMIN 2330 or AGINDUS 1500 or junior standing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WOMSTD 3430</td>
<td>3</td>
<td>Women and the Arts</td>
<td>The focus is on the contributions of women in the areas of theatre, dance, music, film, and the visual arts. In addition to classroom participation, the course includes attendance at live performances and presentations by guest lecturers. Components: Lecture GE: Fine Arts, Gender Studies</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WOMSTD 3520</td>
<td>3</td>
<td>American Women’s History</td>
<td>Surveys the changing patterns of domestic and family life, work, education and public participation of American women from the Colonial period to the present. Components: Lecture Cross Offerings: HISTORY 3520 GE: Gender Studies, Historical Perspective Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of instructor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WOMSTD 3530</td>
<td>3</td>
<td>Philosophy’s Feminist Future: From Powerism to Personalism</td>
<td>With a focus on major representatives of philosophical thought, this course will examine ideas which have promoted civilization along sexist lines and other ideas which can contribute to the development of a new kind of civilization rooted in a respect for persons. (Every other Spring) Components: Lecture Cross Offerings: PHILSPHY 3530 GE: Gender Studies, Humanities Prereqs/Coreqs: P: three credits in philosophy or WOMSTD 1130 or consent of instructor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WOMSTD 3630</td>
<td>3</td>
<td>Ethnic and Gender Equity in Education</td>
<td>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, Lecture Cross Offerings: TEACHING 3630, ETHNSTDY 3630 GE: Ethnic and Gender</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
WOMSTD 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: Lecture
Cross Offerings: HISTORY 3650
GE: Historical Perspective, International Education

WOMSTD 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: Lecture
Cross Offerings: HISTORY 3700
GE: Gender Studies, Historical Perspective
Prereqs/Coreqs: P: HISTORY 1010 or HISTORY 1020 or consent of instructor

WOMSTD 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 the law affects women in poverty and in old age.

Components: Lecture
Cross Offerings: CRIMLJUS 3730
GE: Gender Studies, Social Sciences
Prereqs/Coreqs: P: CRIMLJUS 1130 or one course in women’s studies and junior standing

WOMSTD 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: Lecture
Cross Offerings: ETHNSTDY 3830
GE: Ethnic and Gender
Prereqs/Coreqs: sophomore standing to enroll in this class

WOMSTD 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: Lecture
Cross Offerings: ENGLISH 4500
GE: Gender Studies, Humanities, International Education
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

WOMSTD 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

WOMSTD 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

Albers, Mark A. (2004); Assistant Professor, Industrial Studies, Department of Industrial Studies; B.S., M.S., UW-Platteville.

Albert, Keith R. (2010); Assistant Coach and At Risk Advisor, Intercollegiate Athletics; Lecturer, First Year Experience; B.A., Loras College; M.S.E., UW-Platteville.

Alcalay, Eugene (2005); Associate Professor, Music, Department of Performing and Visual Arts; B.M., Indiana University School of Music; M.M., D.M.A., The Juilliard School.

Alcalay, Ruth E. Mayers (2005); Senior Lecturer, History, Department of Social Sciences; B.A., Oxford University; M.S., Ph.D., Washington University.

Aldworth, Kelly Jo (2009); Assistant Director, Student Union, Student Centers; B.A., Winona State University; M.S., UW-Platteville.

Allsup, Vernon Carl (1989); Professor, Ethnic Studies, Ethnic Studies Program; Director, Ethnic Studies Program; B.A., M.A., Ph.D., University of Texas-Austin.

Almquist, James N. (1998); Senior Lecturer, General Engineering, Department of General Engineering; B.S., M.S., UW-Madison.

Amin, Mohammad (2010); Student Services Program Manager, Admission and Enrollment Services; B.S., University of Dubuque; M.S., UW-Platteville.

Anderson, Donna L. (2003); Director, Education Abroad; B.A., Luther College; M.A., Loras College.

Anderson, Laura J. (1996); Interim Dean, College of Liberal Arts and Education; Associate Professor, Foreign Languages (French and Spanish), Department of Humanities; B.A., Dana College; M.A., Ph.D., University of Missouri-Columbia.

Anderson, Max L. (1979); Professor, Civil Engineering, Department of Civil and Environmental Engineering; B.S., M.A.T., Michigan State University; M.S., Ph.D., University of Michigan. Registered Professional Engineer and Diplomat of the American Academy of Environmental Engineers.

Antczak, Thomas R. (1992); Coach, Intercollegiate Athletics; Lecturer, Physical Education, School of Education; B.S., M.S., UW-La Crosse.

Artz, Jennifer (2010), Career Consultant, Career Center; B.A., UW-Stevens Point; M.S., UW-Platteville.

Austin, Larry L. (1989); Lecturer, Civil Engineering, Department of Civil and Environmental Engineering; B.S., UW-Platteville. Registered Professional Engineer and Land Surveyor.

Balachandran, Swaminathan (1985); Professor, Industrial Engineering, Department of Mechanical and Industrial Engineering; B.E., University of Madras (India); M.E., Indian Institute of Science; Ph.D., Virginia Polytechnic Institute.

Ball, James A. (2001); Director, Student Union, Student Affairs; B.A., Pittsburgh State University; M.S.E., University of Nebraska-Lincoln.

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.

Banfi, Darla M. (1984); Marketing Coordinator, Distance Learning Center; B.A., M.S.E., UW-Platteville.

Barnet, Barbara A. (1999); Professor, Mathematics, Department of Mathematics; B.S., Bradley University; M.S., Ph.D., Iowa State University.

Barraclough, Dominic J. (1999); Professor, Counselor Education, School of Education; B.A., University of Washington, Seattle; M.S., Central Washington University; Ph.D., University of North Dakota.

Baxter, Christopher A. (2003); Associate Professor and State Nutrient Management Specialist, Agriculture, School of Agriculture; B.S., UW-Platteville; M.S., Ph.D., Purdue University.

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.

Beadling, Laura L. (2007); Assistant Professor, English, Department of Humanities; B.F.A., Bowling Green State University; M.A., Ph.D., Purdue University.

Belken, Johanna (2008); Graphic Designer, University Information and Communications, University Advancement; B.A., UW-Platteville.

Benish, Steven G. (2005); Assistant Professor, Counselor Education, School of Education; B.S., M.S.E., UW-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.

Berglin, Robin (2009); Associate Residence Hall Director, Student Housing, Student Affairs; B.S., UW-Platteville.
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.

Biondi, Karly (2010); Associate Residence Hall Manager, Student Housing; B.A., UW-Parkside.

Blevins, Sarah (2007); Financial Aid Counselor and University Scholarship Coordinator, Financial Aid, Student Affairs; B.S., UW-Platteville.

Bockhop, Richard L. (2002); Associate Professor, Agriculture, School of Agriculture; B.S., M.S.E., UW-Platteville; Ph.D., Iowa State University.

Bonlender, Ronald (2009); Outreach Program Manager, Distance Education Center, Alternative Delivery Systems; B.S., UW-Stout; M.B.A., University of Chicago.

Borke, John C. (1981); Professor, Accounting, Department of Business and Accounting; B.S., M.A.S., Northern Illinois University; C.P.A. (Illinois).

Bouck, Linda H. (2000); Professor, Industrial Studies, Department of Industrial Studies; B.S., Winona State University; M.S., UW-Stout; Ed.D., Texas A & M University.

Boyles, David C. (1990); Professor, Mathematics, Department of Mathematics; B.S., M.S., Northern Illinois University; Ph.D., UW-Madison.

Break, Catherine (2010); Associate Student Services Coordinator, Education Abroad; B.A., University of South Florida.

Breckenridge, Ryanne (2007); Associate Student Services Specialist, Department of Athletics; B.A., St. Ambrose University; M.A., Loras College.

Brickey, Russell (2010); Coordinator, Writing Center; B.A., University of Oregon; M.F.A., Ph.D., Purdue University.

Bromley, Patricia L. (1992); Professor, Psychology, Department of Psychology; M.S.E. Adult Education Coordinator, School of Education; B.A., UW-Madison; M.S.E., UW-Platteville; Ph.D., UW-Madison.

Bronold, Cathleen E. (2006); Associate Student Services Coordinator, UW-Fox Valley Engineering Program, Department of Mechanical and Industrial Engineering; B.S., M.S., UW-Madison.

Brooke, Wendy A. (2007); Assistant Professor, Business Administration, Department of Business and Accounting; B.S., Missouri State University; M.S., UW-Platteville.

Broussard, Rosalyn S. (1996); Professor, Political Science, Department of Social Sciences; B.A., Southern University; M.A., Ph.D., State University of New York at Binghamton.

Bryan, Donita (2009); Assistant Professor, Agriculture, School of Agriculture; B.S., Stephen F. Austin State University; M.S., Ph.D., Texas A & M University.

Buboltz, Jeffrey (2008); Assistant Professor, Chemistry, Department of Chemistry and Engineering Physics; B.S., UW-Madison; Ph.D., Cornell University.

Buechler, Dale N. (2006); Associate Professor, Electrical Engineering; Department of Electrical Engineering, Rock County Program; B.S., M.S., University of Arizona; Ph.D., University of Utah.

Bunte, Alison B. (1994); Professor, Education, School of Education; Associate Dean, College of Liberal Arts and Education; B.S., Southwest Missouri State University; M.A., University of Missouri-Columbia; Ph.D., Southern Illinois University.

Burbach, Aaron C. (2010); Assistant Director, Alumni Services; B.A., La Salle University.

Burns, Teresa M. (1994); Professor, English, Department of Humanities; Director, Women's and Gender Studies Program; B.A., M.A., University of Florida; Ph.D., University of Houston.

Burton, Coree’ K. (2007); Residence Hall Manager, Student Housing, Student Affairs; B.A., Central Michigan University.

Burton, Sabina (2009); Assistant Professor, Criminal Justice, Department of Criminal Justice; B.S., M.S., University of Munich (Germany); Ph.D., University of California at Irvine.

Busch, Dennis L. (2005); Assistant Scientist, Pioneer Farm; B.S., M.S., UW-Platteville; Ph.D., University of Minnesota.

Calcaterra, Robert A. (1983); Professor, Mathematics, Department of Mathematics; B.S., Brooklyn College; M.A., Ph.D., UW-Madison.

Candito, Kara (2010); Assistant Professor, English, Department of Humanities; M.F.A., University of Maryland; Ph.D., Florida State University.

Carey, Delbert P. (2005); Senior Lecturer, History, Department of Social Sciences; B.S., UW-Platteville; M.A., Ph.D., Marquette University.

Carlson, Brad M. (2007); Lecturer, Theatre, Department of Performing and Visual Arts; B.A., University of Northern Iowa.

Carothers, Todd (2009); Assistant Professor, Business Administration, Department of Business and Accounting; B.B.A., UW-Eau Claire; M.B.A., UW-Madison.

Carter, Roland (2010); Senior Development Specialist, Office of Sponsored Programs; B.A., Oakwood College.

Caywood, Thomas E. (1991); Professor, Criminal Justice, Department of Criminal Justice; Chair, Department of Criminal Justice; B.S., M.S., Central Missouri State University; Ph.D., Sam Houston State University.
Ceylan, Tamer (1982); Professor, Mechanical Engineering, Department of Mechanical and Industrial Engineering; B.S., Middle East Technical University (Turkey); M.S., Ph.D., U.W-Madison. Registered Professional Engineer.

Champeau, Jack D. (2006); Academic Program Manager, UW-Rock County Engineering Program, Department of Electrical Engineering; B.S., Bradley University; M.S., Cardinal Stritch University.

Chang, Mu-Ling (2001); Associate Professor, Mathematics, Department of Mathematics; B.S., Tunghai University (Taiwan); M.S., Tamkang University (Taiwan); Ph.D., University of Maryland.

Chattopadhyay, Soma (2010); Assistant Professor, Chemistry, Department of Chemistry and Engineering Physics; B.S., B.Tech, Calcutta University (India); Ph.D., University of Illinois at Urbana-Champaign.

Chellevold, David A. (2000); Lecturer, Education, School of Education; B.A., Luther College; M.S.E., UW-Platteville.

Chen, Hao (2010); Assistant Professor, Communication Technologies, Department of Communication Technologies; B.A., Huazhong University of Technology and Science; M.A., Ph.D., University at Buffalo, State University of New York.

Chisom, Martin D. (2002); Lecturer, Speech, Department of Performing and Visual Arts; B.A., Johnson Smith University; M.A., University of Kansas.

Christison, Charles G. (1999); Administrative Program Specialist, Distance Learning Center; B.S., UW-Stevens Point; M.S., UW-Madison.

Ciesielski, Dennis J. (1997); Professor, English, Department of Humanities; B.A., Arkansas College; M.A., Ph.D., Southern Illinois University.

Clements, Mark A. (1997); Senior Information Technology Architect; Information Technology; B.S., UW-Platteville.

Clifton, Joseph M. (1984); Professor, Software Engineering, Department of Computer Science and Software Engineering; Chair, Department of Computer Science and Software Engineering; B.S., UW-Platteville; Ph.D., Iowa State University.

Clough, Jill M. (1985); Professor, Industrial Engineering, Department of Mechanical and Industrial Engineering; B.S., M.S., Ph.D., University of Iowa.

Collins, Benjamin V.C. (2000); Professor, Mathematics, Department of Mathematics; B.A., Central College; M.S., University of Michigan-Ann Arbor; Ph.D., UW-Madison.

Compton, Michael E. (1995); Professor, Agricultural Sciences, School of Agriculture; Director, School of Agriculture; A.A.S., Danville Area Community College; B.S., M.S., Southern Illinois University; Ph.D., Virginia Polytechnic University.

Connolly, Pamela J. (1996); Lecturer, Education, School of Education; B.A., University of Colorado-Boulder; M.A., University of Northern Iowa.

Conway, Robert C. (1990); Professor, Accounting, Department of Business and Accounting; B.A., UW-Madison; M.S., UW-Whitewater; M.S., Ph.D., UW-Madison.

Cool, Andrea M. (1999); Lecturer, English, Department of Humanities; B.A., UW-Platteville; M.A., University of Missouri-Columbia.

Cooley, Dennis R. (1998); Assistant Chancellor for Advancement, Development; B.S., UW-La Crosse.

Cooper, David T. (2005); Assistant Professor, Music, Department of Performing and Visual Arts; B.M., Lawrence University; M.M., University of Akron; D.M.A., UW-Madison.

Cordingley, Allen E. (2006); Lecturer, Music, Department of Performing and Visual Arts; B.M., Youngstown State University; M.M., Lawrence University.

Cornett, Catherine A. (2003); Lecturer, Biology, Department of Biology; B.S., UW-River Falls; M.S., Iowa State University.

Cornett, Charles R. (2001); Professor, Chemistry, Department of Chemistry and Engineering Physics; B.S., King College; Ph.D., University of Kentucky.

Cornils, Margaret A. (2005); Lecturer, Music, Department of Performing and Visual Arts; B.M., M.M., Northern Illinois University.

Courtney, Travis (2004); Student Services Coordinator, Distance Learning Center; A.A., Northeast Iowa College; B.A., Clarke College.

Covert, Tom W. (1997); Information Processing Consultant, Information Technology; B.S., UW-Platteville.

Cramer, Robert G. (2007); Assistant Chancellor for Administrative Services; B.A., Alma College; M.S., M.A., UW-Madison.

Curras, Christina J. (2000); Professor, Civil Engineering, Department of Civil and Environmental Engineering; B.S., M.S., Ph.D., University of California-Davis.

Curtiss, Kelly (2008); Associate Advisor, Business Administration, Department of Business and Accounting; B.S., Central Michigan University.

Daeuber, Ulz (2001); Lecturer, Physical Education, School of Education; Assistant Coach, Intercollegiate Athletics; M.S., M.S., Heidelberg University; M.S.E., UW-Platteville.

Dahlquist, C. Daniel (1997); Associate Professor, Speech, Department of Performing and Visual Arts; B.S., M.F.A., Ph.D., Southern Illinois University.

Dalecki, Michael G. (1991); Professor, Sociology, Department of Social Sciences; B.S., UW-Platteville; M.S., Texas Christian University; Ph.D., Pennsylvania State University.
Dalles, Mary Pat (2005); Lecturer, English, Department of Humanities; B.A., UW-Platteville; M.A. UW-Madison; Ph.D., University of Colorado-Boulder.

Dalsing, Diedre L. (2003); Counselor, Counseling Services, Student Affairs; B.S., UW-Madison; M.A., Loras College.

Dargel, Dan L. (1992); Information Processing Consultant, Information Technology; B.S., UW-Platteville.

Daus, Barbara M. (1987); Executive Director, International Programs; B.S., M.S.E., UW-Platteville.

Davis, Angela (2004); Financial Aid Counselor and Student Employment Coordinator, Financial Aid, Student Affairs; B.A., Clarke College; M.S.E., UW-Platteville.

Davis, Peter (2010) Director, Physical Plant; B.S., UW-Platteville.

Day, Susan Savage (2003); Lecturer, Music, Department of Performing and Visual Arts; B.A., UW-Platteville; M.M., D.M.A., UW-Madison.

Deis, Timothy M. (1999); Professor, Mathematics, Department of Mathematics; B.S., M.A., Mankato State University; M.S., Ph.D., University of Nebraska-Lincoln.

Demaree, Rebekah A. (1993); Lecturer, Music, Department of Performing and Visual Arts; B.A., Indiana University; M.M., University of Idaho.

Demaree, Robert K. (1992); Professor, Music, Department of Performing and Visual Arts; B.S., Indiana University; M.A., University of Iowa; D.M.A., University of Illinois at Urbana-Champaign.

Dhyanchand, Richard (2010); Assistant Professor, Biology, Department of Biology; B.S., Wheaton College; M.S., M.D., American University of the Caribbean, School of Medicine.

Diesing, Stacey M. (2005); Advisor and Marketing Manager, Prospective Student Services, Admission and Enrollment Services, Student Affairs; B.A., Loras College.

Doyle-Morin, Rebecca (2010); Assistant Professor, Biology, Department of Biology; B.A., Lawrence University; Ph.D., Cornell University.

Donahoe, Jessica J. (1999); Senior Academic Librarian, Karrmann Library; B.A., UW-Madison; M.A., School of Library and Information Studies, UW-Madison.

Doser, Linda R. (2004); Lecturer, Education, School of Education; B.S., M.S.E., UW-Platteville.

Drake, Dawn M. (1987); Executive Director, Alternative Delivery Systems; B.S., UW-Platteville; M.B.A., UW-Whitewater.

Dressens, Vickie L. (1994); Director, University Health Services; R.N., Mercy School of Nursing; Nurse Prac., UW-Milwaukee.

Drefcinski, Shane D. (1997); Professor, Philosophy, Department of Humanities; Director, General Education and Assessment; B.A., College of St. Thomas; M.A., Ph.D., University of Minnesota.

Drummond, Martha D. (1991); Associate Professor, English, Department of Humanities; B.A., Auburn University; M.E., Georgia State University; M.A., West Georgia College; Ph.D., University of Southern Mississippi-Hattiesburg.

Drury, David M. (1987); Professor, Electrical Engineering, Department of Electrical Engineering; B.S.E.E., Milwaukee School of Engineering; M.E.E., Midwest College of Engineering; Ph.D., Marquette University. Registered Professional Engineer.

Durr, E. Jeanne (2010); Director, Human Resources; B.A., Portland University; J.D., Northwestern School of Law of Lewis & Clark College.

Dutelle, Aric W. (2004); Assistant Professor, Criminal Justice, Department of Criminal Justice; B.S., UW-La Crosse; M.S., National University.

Dye, Amy M. (2006); Associate Lecturer, Mathematics, Department of Mathematics; B.S., UW-Eau Claire.

Ellis, Barry L. (1991); Professor, Music, Department of Performing and Visual Arts; B.M., Furman University; M.M., Virginia Commonwealth University; Ed.D., University of Illinois at Urbana-Champaign.

Elmer, Steven R. (1999); Lecturer, Criminal Justice, Department of Criminal Justice; B.S., J.D., UW-Madison.

Emendorfer, Lisa A. (2001); Interim Coordinator of Education, Office of Special Programs, School of Education; Lecturer, Physical Education, School of Education; B.A., William Penn College; M.S.E., UW-Platteville.

Emendorfer, Michael E. (1999); Lecturer, Physical Education, School of Education; Coach, Intercollegiate Athletics; B.A., William Penn College; M.S.S., U.S. Sports Academy.

Enright, Corinne S. (2000); Associate Professor, Psychology, Department of Psychology; B.A., M.A., University of British Columbia-Vancouver; Ph.D., University of Western Ontario.

Enz, Daniel (2010); Assistant Professor, General Engineering, Department of General Engineering; B.S., UW-Platteville; M.S., University of Minnesota; Ph.D., Iowa State University.

Erickson, Paul J. (1996); Deputy Chief Public Information Director; Assistant Director, University Information and Communications, University Advancement; B.A., UW-Eau Claire.

Erickson, Rob (2008); Assistant Coach, Intercollegiate Athletics; B.S., M.S., UW-Stevens Point.

Ernst, Michael (2010); Director, Dining Services, University Auxiliary Services; B.S., UW-Stout.
Evensen, Harold T. (1999); Professor, Engineering Physics, Department of Chemistry and Engineering Physics; B.S., Michigan Technological University; M.S., Ph.D., UW-Madison.

Evenson, Mark C. (1997); Associate Professor, Foreign Languages (Spanish), Department of Humanities; B.A., M.A., Middlebury College; Ph.D., UW-Madison.

Ewton, Stanley E. (2001); Lecturer, Mathematics, Department of Mathematics; B.S., UW-Platteville; M.A., Western Michigan University.

Fager, Susan J. (2003); Information Processing Consultant, Distance Learning Center; B.S., UW-Platteville.

Fairchild, G. Daniel (1970); Professor, Music, Department of Performing and Visual Arts; Chair, Department of Performing and Visual Arts; B.S., M.S., University of Illinois at Urbana-Champaign.

Farrell, Eric (2010); Transfer Admission Advisor, Admission and Enrollment Services, Student Affairs; B.A., Providence College; M.S.E., Salem State College.

Farrelly, Ann D. (2006); Assistant Professor, Theatre, Department of Performing and Visual Arts; B.A., M.A., University of Dayton; Ph.D., Ohio State University.

Fatzinger, Curt D. (1985); Director, Intramurals; B.S., M.E.P.D., UW-Platteville.

Feng, Gang (2002); Associate Professor, Electrical Engineering, Department of Electrical Engineering; B.S., M.E., University of Electronic Science of China; Dr. Eng., Beijing University of Posts and Telecom (China); Ph.D., University of Miami.

Feyen, Carol K. (1995); Senior Lecturer, Sociology, Department of Social Sciences; B.A., M.S., UW-Madison.

Fields, Kristina (2007); Assistant Professor, Civil Engineering, Department of Civil and Environmental Engineering; B.S., M.S., Ph.D., Michigan Technological University.

Finkenbinder, Kimberly (2010); Admission Advisor and Territorial Manager, Prospective Student Services; B.S., UW-Platteville.

Finn, Lorin D. (2003); Assistant Coach, Intercollegiate Athletics; Lecturer, Physical Education, School of Education; B.S., Brigham Young University; M.S., Utah State University.

Ford, Duane M. (2009); Assistant Professor, Music, Department of Performing and Visual Arts; B.M., Pennsylvania State College; M.M., UW-Madison; D.M.A., University of Maryland at College Park.

Foster, Patricia A. (2000); Director, Women's Center; B.S., Northern Carolina A & T State University; M.S., Mankato State University.

Foust, Duane (2005); Physics Laboratory Manager, Department of Chemistry and Engineering Physics; B.S., UW-Platteville.

Franklin, Laura (2010); Director, Student Support Services; B.S., M.S., Iowa State University.

Frayer, Christopher (2008); Assistant Professor, Mathematics, Department of Mathematics; B.S., Grand Valley State University; M.S., Ph.D., University of Kentucky.

Frederick, Kari S. (1999); Laboratory Program Manager, Department of Chemistry and Engineering Physics; B.S., UW-Platteville.

Freese, Eric (2006); Coach, Intercollegiate Athletics; Advisor, Athletics; Marketing Specialist, Athletics; B.A., Mount Mary College.

Frieders, Elizabeth M. (1997); Professor, Biology, Department of Biology; B.A., St. Olaf College; M.S., Ph.D., University of Minnesota, St. Paul.

Fuschino, Vincenzo (2007); Coach, Intercollegiate Athletics; B.A., State University of New York at Buffalo; M.A., UW-Madison.

Gagne, Karen M. (2008); Assistant Professor, Sociology, Department of Social Sciences; B.A., Hampshire College; M.A., Ph.D., State University of New York at Binghamton.

Gard, Jeffrey (2006); Coach, Intercollegiate Athletics; Lecturer, Physical Education, School of Education; B.S., M.S.E., UW-Platteville.

Garrett, Richard L. (2006); Lecturer, English, Department of Humanities; B.A., M.A., Stephen F Austin State University.

Garry, Colleen K. (1992); Director, Radio and Television, Media Technology Services; B.S., UW-Platteville; M.S., Boise State University.

Gates, Elizabeth A. (2000); Associate Professor, Psychology, Department of Psychology; Chair, Department of Psychology; B.A., Grinnell College; M.A., Ph.D., University of Iowa.

Gavin, Donna M. (1996); Senior Lecturer, Computer Science, Department of Computer Science and Software Engineering; B.A., St. Xavier College; M.S., Nova Southeastern University of Florida.

Gias, Sharif (2008); Assistant Professor, Business Administration, Department of Business and Accounting; B.B.A., North South University; M.B.A., Delaware State University.

Gimski, Gordon V. (2001); Lecturer, Mathematics, Department of Mathematics; B.S., UW-Platteville; M.Nat.Sc., University of Oklahoma.

Goomey, John R. (2000); Lecturer, Electrical Engineering, Department of Electrical Engineering; B.S., B.S., UW-Milwaukee; M.S., UW-Madison.

Gormley, Melissa E. (2008); Assistant Professor, History, Department of Social Sciences; B.A., M.A., San Francisco State University; Ph.D., University of California, Davis.
Gottlieb, Rebecca I. (1997); Lecturer, Foreign Languages (French), Department of Humanities; B.A., Dartmouth College; M.A., Cornell University.

Gregg, Matthew D. (2004); Lecturer, Music, Department of Performing and Visual Arts; B.M.E., UW-Milwaukee; M.M.E., UW-Madison.

Griswold, Amy M. (2006); Outreach Specialist, Distance Learning Center; B.A., UW-Platteville.

Grunow, Jodean E. (2002); Lecturer, Mathematics, Department of Mathematics; B.S., UW-Platteville; M.S., Ph.D., UW-Madison.

Gunser, Roxane M. (1996); Professor, Business Administration, Department of Business and Accounting; B.A., Hope College; M.S., Northern Illinois University; Ph.D., University of Oklahoma.

Hadfield, Kelly Jo (2007); Associate Student Services Coordinator, Conference Services and Event Planning, Student Affairs; B.S., Iowa State University.

Hadorn, Peter T. (1997); Associate Professor, English, Department of Humanities; B.A., James Madison University; A.M., Ph.D., University of Illinois.

Haertzen, Kevin J. (2003); Associate Professor, Mathematics, Department of Mathematics; B.S., University of Minnesota; B.S., Jamestown College; M.A., University of Northern Iowa; Ph.D., Northern Illinois University.

Hahn, Priscilla M. (1990); Learning Specialist, Student Support Services; B.S., UW-Eau Claire; M.S.E., UW-Platteville.

Hale, J. Keith (2006); Assistant Professor, English, Department of Humanities; B.A., University of Texas at Austin; M.A., University of Central Arkansas; Ph.D., Purdue University.

Hamilton, James P. (1995); Professor, Chemistry, Department of Chemistry and Engineering Physics; Director, Nanotechnology Center for Collaborative Research and Design; B.A., University of Maine-Orono; Ph.D., UW-Madison.

Hammermeister, John F. (2005); Assistant Professor, Business Administration, Department of Business and Accounting; B.A., Augustana College; M.B.A., University of Oregon.

Hansen, Susan L. (1991); Professor, Business Administration, Department of Business and Accounting; B.A., Bethany College; M.B.A., University of Missouri-Kansas City; Ph.D., Argosy University-Sarasota.

Hanten, Dianne M. (1996); Associate Registrar; B.A., University of Dubuque; M.A., Loras College.

Harris, Bernard W. (1983); Associate Professor, Business Administration, Department of Business and Accounting; B.S., M.B.A., Youngstown State University.

Hasker, Robert W. (1996); Professor, Software Engineering, Department of Computer Science and Software Engineering; B.S., Wheaton College; Ph.D., University of Illinois at Urbana-Champaign.

Haskins, William D. (2003); Coordinator, Graduate Program in Project Management; B.A., St. Olaf College; M.S., UW-Platteville.

Haslauer, Edina (2001); Lecturer, Foreign Languages (German), Department of Humanities; B.A., Loras College; M.S.E., UW-Platteville; Ph.D., UW-Madison.

Hawkinson, Christine (2008); Editor, Distance Learning Center, Alternative Delivery Systems; B.S., Western Illinois University; M.S., UW-Madison.

Heimerdinger, David (2005); Lecturer, Department of Industrial Studies; Chair, Department of Industrial Studies; B.S., M.S., UW-Platteville

Hellert, Susan M. (1989); Senior Lecturer, History, Department of Social Sciences; B.A., UW-Platteville; M.A., Loras College.

Henze, Dale W. (2001); Lecturer, Education, School of Education; B.A., Illinois State University; M.S., Purdue University.

Hernandez, Jovan (2010); Assistant Professor, Counselor Education, School of Education; B.S., Minnesota State University.

Herzberg, Michelle (2008); Associate Residence Hall Manager, Student Housing, Student Affairs; B.A., Mount Mercy College.

Hibbard, James B. (2000); Senior Academic Librarian, Karrmann Library; B.S., Western Michigan University; M.L.S., Indiana University.

Higgins, Aaron (2006); Lead Teacher, Children's Center, Student Affairs; B.A., M.S.E., University of Michigan.

Hill, Kari M. (2000); Senior Academic Advisor, Advising and Career Exploration Services, Student Affairs; B.S., M.S., UW-Platteville.

Hill, Russel W. (2002); Senior Media Specialist, Media Technology Services; B.S., UW-Platteville.

Hines, Peggy (2008); Associate Counselor, University Counseling Services; B.A., Mills College; M.S.E., UW-Platteville.

Hoerning, Jeff M. (2004); Associate Professor, Mechanical Engineering, Department of Mechanical and Industrial Engineering; B.S., M.S., Ph.D., UW-Madison.

Hollingsworth, Les (2007); Chair, Academic Staff Senate; Outreach Program Manager II, Distance Learning Center; B.A., Luther College; M.B.A., University of Phoenix.

Holverson, Clyde A. (1992); Senior Instrumentation Specialist, College of Engineering, Mathematics and Science; B.S., UW-Platteville.

Howdle, Bruce C. (2005); Lecturer, Art, Department of Performing and Visual Arts; B.S., UW-Platteville; M.A., Northern Arizona University; M.F.A., Arizona State University.
Hu, Yuanyuan (2007); Assistant Professor, English, Department of Humanities; Coordinator, M.S.E. Program in Wuhan, China; B.A., Hangzhou University (China); M.A., Zhejiang University (China); Ph.D., Purdue University.

Huebschman, Jeffrey J. (2003); Associate Professor, Biology, Department of Biology; Chair, Department of Biology; B.A., Concordia College; M.A., University of Nebraska-Omaha; Ph.D., University of Nebraska.

Hunt, Thomas C. (1999); Professor, Horticulture, School of Agriculture; Director, Reclamation, Environment and Conservation, School of Agriculture; B.S., M.S., Ph.D., UW-Madison.

Huser, Mike (2004); Financial Aid Counselor, Financial Aid, Student Affairs; B.S., Lakeland College.

Ifediora, John O. (1988): Professor, Economics, Department of Social Sciences; B.A., Dakota Wesleyan University; M.A., Roosevelt University; M.S., Illinois Institute of Technology; Ph.D., University of Illinois-Chicago; J.D., UW-Madison.

Ira, Michael S. (2000); Associate Professor, Mathematics, Department of Mathematics; B.S., UW-La Crosse; M.S., Ph.D., University of Nebraska-Lincoln.

Iselin, John P. (2004); Associate Professor, Mechanical Engineering, Department of Mechanical and Industrial Engineering; B.S., M.S., University of Dayton; Ph.D., Iowa State University.

Jacque, Andrew (2009); Assistant Professor, Civil and Environmental Engineering, Department of Civil and Environmental Engineering; B.S., M.S., Ph.D., UW-Madison.

Jadaan, Lee (2007); Director, University Information and Communications, University Advancement; B.A., University of Jordan (Jordan).

Jadaan, Osama M. (1990); Professor, General Engineering, Department of General Engineering; Chair, Department of General Engineering; B.S., M.S., Ph.D., Pennsylvania State University.

James, Linda R. (1999); Assistant Professor, Art, Department of Performing and Visual Arts; B.F.A., University of Georgia; M.F.A., University of Illinois-Chicago.

Jarrard, James L. (2005); Lecturer; Business, Department of Business and Accounting; B.A., Loras College; M.B.A., University of Iowa.

Jensen, Jennifer L. (2005); Instructional Program Manager II, UW-Fox Valley Engineering Program, Department of Mechanical and Industrial Engineering; B.A., UW-Madison; M.S.E., UW-Oshkosh.

Jeske, Clement T. (1984); Professor, Mathematics, Department of Mathematics; B.S., M.A., Ph.D., UW-Madison.

Jinkins, Patricia A. (2001); Associate Professor, Industrial Engineering, Department of Mechanical and Industrial Engineering; B.S., M.S., University of Tennessee; D.E., Texas A & M University.

Johnson, Dale X. (2010); Administrative Program Manager, Distance Learning Center, Alternative Delivery Systems; B.A., M.B.A., Cardinal Stritch University.

Johnson, Kelly Jo (2001); Associate Residence Hall Manager, Student Housing, Student Affairs; B.S., Iowa State University.

Kambel, Danny (2010); Sports Information Director, Athletics; A.A.S., Columbus State Community College; B.S., University of Toledo.

Karsten, Margaret F. (1981); Professor, Business Administration, Department of Business and Accounting; Coordinator, Business Administration Program at a Distance (print-based); B.A., Winona State University; M.B.A., UW-Madison.

Kieckhafer, David (2007); Registrar; B.S., Lakeland College; M.S., UW-Milwaukee.

Kile, Justin W. (2005); Associate Professor, Industrial Engineering, Department of Mechanical and Industrial Engineering; B.S., Rochester Institute of Technology; M.S., Ph.D., University of Michigan.

Kim, Ahyoung (2007); Assistant Professor, Mathematics, Department of Mathematics; B.S., B.S., Yonsei University (South Korea); Ph.D., UW-Madison.

Kinwa-Muzinga, Annie (2002); Associate Professor, Agriculture, School of Agriculture; B.A., University of Kinshasa (Democratic Republic of Congo); M.B.A., Ph.D., University of Illinois.

Kirk, Rea H. (1996); Professor, Education, School of Education; B.A., UCLA; M.S., Eastern Montana College; Ed.D., University of Southern California.

Klavins, Sharon D. (2005); Associate Professor, Biology, Department of Biology; B.A., Duke University; M.S., Ph.D., Southern Illinois University.

Kleisath, Stephen W. (1980); Professor, Business Administration, Department of Business and Accounting; Chair, Department of Business and Accounting; B.S., Pennsylvania State University; M.S., University of Nebraska-Omaha; D.B.A., Nova Southeastern University of Florida.

Knox, Charles M. (2004); Assistant Professor, Industrial Studies, Department of Industrial Studies; B.S., M.S., UW-Platteville.
Konken, Lindsey (2006); Associate Admission Advisor and Territorial Manager, Admission and Enrollment Services; B.S., UW-Platteville.

Kou, Xiaomin (2003); Associate Professor, Electrical Engineering, Department of Electrical Engineering; B.E. Chong Qing University (China); M.S., Ph.D., UW-Milwaukee.

Kraemer, David R. (2002); Associate Professor, Mechanical Engineering, Department of Mechanical and Industrial Engineering; B.S., University of Notre Dame; M.S., University of Michigan; M.S., Ph.D., Johns Hopkins University.

Krahn, Jennifer (2010); Associate Outreach Specialist, Education Abroad; B.A., UW-Platteville.

Kreul, Amy (2007); Art and Graphic Design, University Information and Communications, University Advancement; B.S., UW-Platteville.

Kriewald, Gary L. (2007); Lecturer, English, Department of Humanities; B.A., M.A. UW-Madison.

Kronick, Harry N. (2004); Lecturer, English, Department of Humanities; B.A., Manhattan College; M.A., University of Michigan.

Krueger, Andrew B. (2005); Interim Processing Consultant, Information Technology; B.S., UW-Platteville.

Krueger, Tara (2005); Outreach Specialist, Distance Learning Center; B.S., UW-Platteville.

Krugler, David F. (1997); Professor, History, Department of Social Sciences; B.A., Creighton University; M.A., Ph.D., University of Illinois at Urbana-Champaign.

Kunz, David N. (1997); Professor, Mechanical Engineering, Department of Mechanical and Industrial Engineering; Chair, Department of Mechanical and Industrial Engineering; B.S., University of Michigan; M.S., University of Wyoming; Ph.D., UW-Madison.

Kwon, Miyeon (2004); Associate Professor, Mathematics, Department of Mathematics; B.Ed., M.Ed., Korea National University of Education; M.A., Ph.D., University of Alabama.

LaBudda, Denise (2010); Associate Editor, Distance Learning Center, Alternative Delivery Systems; B.A., UW-Eau Claire.

Lampert, Lester (2010); Instrument Specialist, Department of Chemistry and Engineering Physics, Nanotechnology Center for Collaborative Research and Design; B.S., UW-Platteville.

Landgraf, Lisa M. (2007); Assistant Professor, Computer Science, Department of Computer Science and Software Engineering; B.S., Iowa State University; M.A., University of Iowa; Ph.D., Nova Southeastern University.

Larson, Evan (2009); Assistant Professor, Geography, Department of Social Sciences; B.A., Willamette University; M.S., University of Tennessee; Ph.D., University of Minnesota.
Lomax, Kathryn (1993); Director, Sponsored Programs; B.S., M.S.E., UW-Platteville.

Lovett, John (2010); Student Services Specialist, Services for Students with Disabilities; B.A., Loras College; M.A. Clarke College.

Lukowski, Stanislaw A. (1988); Professor, Mechanical Engineering, Department of Mechanical and Industrial Engineering; M.S., Ph.D., Technical University of Wroclaw (Poland).

Machovec, Valerie (2005); Computer Support Specialist, Information Technology; B.S., UW-Platteville.

Maciej-Hiner, Marian G. (1993); Director, Continuing Education; Director, Confucius Institute; B.A., St. Cloud State University; M.S., UW-Madison.

Maciej-Hiner, Marian G. (1993); Director, Continuing Education; Director, Confucius Institute; B.A., St. Cloud State University; M.S., UW-Madison.

Mahoney, Kris H. (2008); Assistant Professor, Agriculture, School of Agriculture; B.Sc, M.Sc., North Dakota State University; Ph.D., University of Guelph, Ontario, Canada.

Maier, Kimberly (2004); Outreach Specialist, Distance Learning Center; B.S., UW-Platteville.

Mailloux, Mark R. (2006); Senior Institutional Planner, Information Technology; B.A., University of Rhode Island; M.S., UW-Madison.

Mann, Susan M. (1999); Outreach Program Manager, Distance Learning Center; B.S., UW-Platteville.

Manwiller, Nathan (2008); Artist, Technical Services, Student Affairs; B.A., UW-Platteville.

Marco, John S. (2001); Senior Lecturer, Music, Department of Performing and Visual Arts; B.M., Manhattan School of Music; M.A., Queens College.

Marquardt, Scott (2009); Director, University Police; B.S., UW-Platteville.

Masoom, Abulkhair M. (1990); Professor, General Engineering, Department of General Engineering; B.S., University of Engineering and Technology (Bangladesh); M.E., Carleton University (Canada); M.S., Ph.D., UW-Madison.

Masoom, Fahmida R. (1998); Senior Lecturer, General Engineering, Department of General Engineering; B.S., University of Rajshahi, (Bangladesh); M.S., UW-Madison.

Matola, Eric (2009); Chief Information Officer, Information Technology; B.A., University of Maryland; M.A., Chapman University; M.S., College of Notre Dame.

McBeth, William C. (1996); Professor, Education, School of Education; Co-Director, Teaching and Learning Center; B.S., M.S., University of Nebraska-Lincoln; Ph.D., Southern Illinois University.

McCabe, Colleen A. (2000); Associate Professor, Physical Education and Health, School of Education; B.S., UW-Oshkosh; M.A., Saint Mary’s University; Ed.D., Edgewood College.

McDermott, Jodi L. (1995); Interim Executive Director, First Year Experience; Assistant Dean, College of Business, Industry, Life Science and Agriculture; B.S., M.S.E., UW-Platteville.

McDonald, Julia K. (2000); Professor, Mathematics, Department of Mathematics; Chair, Department of Mathematics; B.S., M.Ed., UW-Platteville; M.S., Ph.D., University of Iowa.

McNamara, Denise L. (2008); Assistant Professor, Agriculture, School of Agriculture; B.S., UW-River Falls; M.S., Ph.D., University of Missouri-Columbia.

McNeill, Andrew (2006); Media Specialist, University Information and Communications, University Advancement; B.A., UW-Platteville.

Mee, Michael O. (1991); Professor, Agricultural Sciences, School of Agriculture; B.S., UW-Platteville; M.S., Ph.D., Kansas State University.

Meinhardt, David J. (1996); Senior Lecturer, Communication Technologies, Department of Communication Technologies; B.S., M.S.E., UW-Platteville.

Mendis, Chanaka (2004); Associate Professor, Chemistry, Department of Chemistry and Engineering Physics; B.S., State University of New York at Old Westbury; M.S., Ph.D., Georgetown University.

Mentz, Randy S. (2003); Research Specialist, Agriculture, School of Agriculture; B.S., UW-Stevens Point.

Metzloff, Kyle E. (1998); Professor, Industrial Studies, Department of Industrial Studies; B.S., University of Missouri-Rolla; M.S., Ph.D., UW-Madison.

Meyer, Roger J. (1984); Director and Counselor, University Counseling Services; B.A., Loras College; M.S.E., UW-Platteville.

Meyers, Mark S. (2000); Professor, Civil Engineering, Department of Civil and Environmental Engineering; Chair, Department of Civil and Environmental Engineering; B.S., UW-Platteville; M.S., Ph.D., University of Cincinnati. Registered Professional Engineer.

Miranda-Mendoza, Fernando (2010); Assistant Professor, Mathematics, Department of Mathematics; B.S., Michoacan University of Saint Nicholas of Hidalgo (Mexico); M.S., UW-Madison.

Mirth, John A. (1997); Professor, Mechanical Engineering, Department of Mechanical and Industrial Engineering; B.S., Ohio University; M.S., Ph.D., University of Minnesota.

Mitchell, Traper J. (2006); Associate Residence Hall Manager, Student Housing, Student Affairs; B.A., University of Nebraska at Kearney.
Moiz, Syed M. (2006); Assistant Professor, Accounting, Department of Business and Accounting; M.B.A., University of Karachi (Pakistan); M.B.A., Minnesota State University.

Molesworth, Mark D. (1996); Director, Intercollegiate Athletics; B.A., Baldwin-Wallace College; M.A., Ohio State University.

Momot, Michael E. (1997); Professor, Mechanical Engineering, Department of Mechanical and Industrial Engineering; B.S., Rensselaer Polytechnic Institute; M.S., Ph.D., Purdue University.

Monhardt, Leigh C. (2007); Associate Professor, Education, School of Education; B.A., Luther College; M.S., Ph.D., University of Iowa.

Moninski, Richard J. (2001); Senior Lecturer, Art, Department of Performing and Visual Arts; B.F.A., University of Massachusetts; M.F.A., State University of New York at Albany.

Montgomery, Patrick J. (2006); Assistant Professor, Accounting, Department of Business and Accounting; B.A., M.B.A., M.A., St. Ambrose University.

Montgomery, Tera (2009); Assistant Professor, Agriculture, School of Agriculture; B.S., UW-River Falls; M.S., University of Maryland; Ph.D., University of Illinois at Urbana-Champaign.

Moore, Gerald F. (2002); Lecturer, Mathematics, Department of Mathematics; B.A., M.S.E., UW-Platteville.

Morgan, Rick P. (1999); Outreach Program Manager II, Continuing Education; B.S.E., M.S., UW-Madison.

Mroch, Anna I. (2007); Residence Hall Manager, Student Housing, Student Affairs; B.S., UW-Platteville.

Mueller, James P. (1997); Executive Director, Auxiliary Services; B.S., UW-Stevens Point; M.S., UW-Platteville.

Mulroy-Bowden, Linda A. (1990); Associate Director, Student Housing, Student Affairs; B.S., UW-Eau Claire; M.S., UW-La Crosse.

Munz, Ryan (2008); Assistant Coach, Intercollegiate Athletics; Associate Advisor, Admissions, Admission and Enrollment Services; B.S., UW-Platteville.

Muslu, Mesut (1986); Professor, Electrical Engineering, Department of Electrical Engineering; B.S., Middle East Technical University (Turkey); M.S., Ph.D., University of Missouri-Rolla. Registered Professional Engineer.

Muslu, Zehra (1998); Lecturer, Mathematics, Department of Mathematics; B.S., Yildiz University (Turkey); B.S., M.S., UW-Platteville.

Musselman, Jonathan W. (2001); Senior Academic Librarian, Karrmann Library; B.A., Northwestern College; M.S.E., UW-Platteville; M.S.L.I.S., University of Illinois at Urbana-Champaign.

Narayan, Chetna (1988); Professor, Psychology, Department of Psychology; B.A., University of Delhi (India); M.A., Jawaharlal Nehru University (India); M.S., Ph.D., Iowa State University.

Nelson, Gregory T. (2002); Lecturer, Art, Department of Visual and Performing Arts; B.A., Minnesota College of Art & Design; M.A., Syracuse University.

Nelson, Paula M. (1988); Professor, History, Department of Social Sciences; B.A., Southwest State University; M.A., University of South Dakota; Ph.D., University of Iowa.

Nelson, Thomas B. (1993); Professor, Civil Engineering, Department of Civil and Environmental Engineering; B.S., U.S. Military Academy; M.S.E., Ph.D., Purdue University. Registered Professional Engineer.

Nelson, Travis (2010); Assistant Professor, Political Science, Department of Social Sciences; B.A., St. Olaf College; M.A., Ph. D., UW-Madison.

Nemitz, Clinton (2007); Associate Outreach Specialist, Alternative Delivery Systems; B.S., UW-Platteville.

Nemmetz, Amy (2007); Lecturer, Criminal Justice, Department of Criminal Justice; B.S., M.S., UW-Platteville.

Neumeister, Kathy (2009); Marketing Specialist, Pioneer Academic Center for Community Engagement; A.A., Madison Area Technical College; B.S., Clarke College.

Nevins, David M. (2000); Interim Director, Performing Arts and Facilities; B.S., UW-Stevens Point; M.S., Western Illinois University.

Nevins, Mary Cheryl (2000); Assistant Director, Student Housing; B.A., North Central College; M.S., Western Illinois University.

Nickasch, James R. (2001); Lecturer, Physical Education, School of Education; Coach, Intercollegiate Athletics; B.S., M.S., UW-La Crosse.

Nikolai, Scott A. (2004); Senior Lecturer, Political Science, Department of Social Sciences; B.A., St. Norbert College; M.A., UW-Milwaukee; Ph.D., Texas Tech University.

Nimocks, Mittie J. (1986); Provost and Vice Chancellor for Academic Affairs; Professor, Speech, Department of Performing and Visual Arts; B.S., University of Southern Mississippi; M.A., University of Illinois; Ph.D., University of Florida.

Nkemnji, John F. (1988); Professor, Education, School of Education; B.A., University of Wyoming; M.Ed., Ph.D., University of Texas-Austin.

Nzegwu, Louis I. (1991); Professor, Business Administration, Department of Business and Accounting; B.S., Alcorn State University; M.B.A., Morgan State University; M.Ed., University of Southern Mississippi.
Ofulue, Esther N. (1999); Professor, Biology, Department of Biology; B.S., University of Nigeria; M.S., University of Ibadan (Nigeria); Ph.D., University of British Columbia-Vancouver (Canada).

Omachonu, Florence (2008); Assistant Professor, Education, School of Education; B.A., University of the District of Columbia; M.Ed., George Mason University.

Omernik, Erik S. (2008); Associate Advisor, Graduate Program in Wuhan, China; B.S., UW-Platteville.

Owusu-Ababio, Samuel (1991); Professor, Civil Engineering, Department of Civil and Environmental Engineering; B.S., University of Science and Technology (Ghana, West Africa); M.S., Ph.D., University of Massachusetts at Amherst.

Parker, Philip J. (1998); Professor, Environmental Engineering, Department of Civil and Environmental Engineering; B.S., Ph.D., Clarkson University.

Parsons, Theron E., IV. (1996); Professor, Psychology, Department of Psychology; B.A., King College; M.S., Ph.D., University of Georgia.

Parsons, Amy (2007); Assistant Professor, English, Department of Humanities; B.A., Sonoma State University; M.A., Ph.D., University of California-Irvine

Pauly, Regina R. (2001); Senior Academic Librarian, Karrmann Library; B.S., M.A., UW-Madison.

Pawl, Andrew (2010); Assistant Professor, Engineering Physics, Department of Chemistry and Engineering Physics; Ph.D., University of Michigan-Ann Arbor.

Peckham, Brian W. (1987); Associate Professor, Economics, Department of Social Sciences; B.A., Stanford University; M.A., Ph.D., UW-Madison.

Penn, Michael R. (1997); Professor, Environmental Engineering, Department of Civil and Environmental Engineering; B.S., M.S., University of Michigan; Ph.D., Michigan Technological University.

Perkins, Madonna J. (1990); Professor, Business Administration, Department of Business and Accounting; B.S., UW-Platteville; M.B.A., University of Dubuque.

Perkins, Wendy L. (2003); Lecturer, English, Department of Humanities; B.A., Purdue University; M.A., UW-Madison.

Peters, Pamela (2007); Assistant Professor, Mathematics, Department of Mathematics; B.A., Arizona State University; M.S., University of Southern California; M.S., Ph.D., Colorado State University.

Peters, Rebecca L. (1998); Director, Student Success Center; Coordinator, Services for Students with Disabilities, Student Affairs; B.S., Iowa State University; M.S.E., UW-Platteville.

Phillips, Julie M. (1993); Lecturer, Education, School of Education; B.A., University of Northern Iowa; M.A., University of Iowa; M.B.A., Nova Southeastern University of Florida.

Pink, Sharon M. (1985); Counselor, Student Support Services; B.S., M.S.E., UW-Platteville.

Ponder, Justin (2009); Assistant Professor, English, Department of Humanities; B.A., M.A., Ph.D., UW-Milwaukee.

Popovich, Steven R. (2006); Assistant Professor, Electrical Engineering, Department of Electrical Engineering, Rock County Program; B.S., M.S., Ph.D., UW-Madison.

Pothisakul, Patricia (2008); Student Services Program Manager, Prospective Student Services, Admission and Enrollment Services; B.S., B.A., UW-Platteville.

Price, Kevin M. (2007); Lecturer, Music, Department of Performing and Visual Arts; B.M., Oral Roberts University; M.M., University of Nevada; D.M.A., University of Iowa.

Price, Susan G. (1988); Professor, Agricultural Sciences, School of Agriculture; M.S., UW-Madison; D.V.M., Purdue University.

Prill-Adams, Alicia L. (1990); Administrative Program Specialist, Agricultural Sciences, School of Agriculture; B.S., Illinois State University; M.S., Southern Illinois University.

Putnam, Deborah L. (2001); Assistant Director, Catering and Retail Operations; B.S., UW-Platteville.

Ranney, Arthur L. (1998); Special Assistant to the Provost, Vice Chancellor's Office; Professor, Communication Technologies, Department of Communication Technologies; B.A., University of Cincinnati; M.A., Ph.D., Ohio State University.

Ravikumar, Prathivadi B. (1990); Professor, Mechanical Engineering, Department of Mechanical and Industrial Engineering; B.S., Bangalore University (India); Ph.D., Kansas State University.

Rawling III, J. Elmo (2002); Associate Professor, Geography, Department of Social Sciences; B.A., UW-Milwaukee; M.S., UW-Madison; Ph.D., UW-Milwaukee.

Ray, Shenita L. (2006); Assistant Director, Distance Learning Center; B.S., M.S.E., Marquette University.

Reddy, Avaru Rami (1999); Professor, Agriculture, School of Agriculture; B.Sc., Andhra Pradesh Agricultural University (India); M.B.A., Fort Hays State University; M.B.A., Nagarjuna University (India); Ph.D., Texas A & M University.

Reed, B.J. (1999); Professor, Communication Technologies, Department of Communication Technologies; B.A., MA., Ed.S., Ed.D., Drake University; APR, CMP.

Reed, Joshua (2010); Interim Student Services Coordinator and Pre-College Director; B.S., M.S.E., UW-Platteville.
Reeder, Yunmei (2010); Assistant Director, Confucius Institute; A.S., B.S., Overseas Chinese Business College (Taiwan); B.S., University of Central Missouri.

Reuter, Cynthia E. (1983); Systems Administrator, Dining Services; B.S., UW-Platteville.

Reynolds, Helen R. (1998); Coordinator, Advising and Career Exploration Services, Student Affairs; B.M.E., M.Ed., James Madison University; M.S., Iowa State University.

Rice, Deborah (2005); Lecturer, Criminal Justice, Department of Criminal Justice; Associate Advisor, Criminal Justice, Department of Criminal Justice; B.S., M.S., UW-Platteville; M.S., Florida Institute of Technology.

Richardson, Bradley T. (2001); Assistant Director, Admission and Enrollment Services, Student Affairs; B.A., Huntington College; M.S.E., Capella University.

Riedl-Farrey, Cathy J. (1999); Controller, Administrative Services; B.S., UW-Platteville; M.B.A., Clarke College, C.P.A. (Wisconsin).

Riedle, Joan E. (1981); Professor, Psychology, Department of Psychology; B.A., Indiana University; M.A., Ph.D., University of New Mexico.

Riedle, Lisa A. (1990); Professor, Civil Engineering, Department of Civil and Environmental Engineering; Associate Dean, College of Engineering, Mathematics and Science; B.S., UW-Platteville; M.S., Ph.D., University of Alabama.

Riley, Todd R. (2001); Senior Physician and Medical Director, Student Health Services, Student Affairs; B.S., UW-Platteville; M.D., Medical College of Wisconsin.

Rimel, Eric W. (2008); Assistant Professor, Industrial Studies, Department of Industrial Studies; B.S., M.Ed., University of Idaho.

Ringgenberg, Renee (2005); Lecturer, Physical Education, School of Education; B.S., UW-La Crosse, M.S.E., UW-Platteville.

Ringgenberg, Scott W. (2000); Assistant Professor, Physical Education, School of Education; B.S., M.S., UW-La Crosse; Ed.D., Edgewood College.

Rink, John R. (1993); Professor, Political Science, Department of Social Sciences; B.A., M.A., UW-Milwaukee; Ph.D., Southern Illinois University.

Roberts, Matthew W. (2002); Associate Professor, Civil Engineering, Department of Civil and Environmental Engineering; B.S., Brigham Young University; M.S., Ph.D., Texas A & M University.

Roberts, Robert (2007); Assistant Professor, Criminal Justice, Department of Criminal Justice; B.S., UW-Platteville; M.A., UW-Oshkosh.

Rolle, Kurt C. (1980); Professor, Mechanical Engineering, Department of Mechanical and Industrial Engineering; B.S., Purdue University; M.S., Ph.D., University of Dayton. Registered Professional Engineer.

Ross, Edward L. (2001); Senior Lecturer, Criminal Justice, Department of Criminal Justice; B.A., Winona State University; M.S.W., University of Illinois at Urbana-Champaign.

Rotzenberg, Chris (2007); Assistant Coach, Intercollegiate Athletics; B.S., UW-Whitewater; M.S., UW-La Crosse.

Rowe, Michael C. (2002); Professor, Software Engineering, Department of Computer Science and Software Engineering; B.A., University of Minnesota, Duluth; M.A., Ph.D., University of North Dakota; M.B.A., Western Michigan University; Ph.D., University of North Texas.

Rowley, David G. (1999); Professor, History, Department of Social Sciences; B.A., University of Michigan; M.A., University of Illinois-Chicago; Ph.D., University of Michigan.

Rowley, Rex J. (2010); Assistant Professor, Geography, Department of Social Sciences; Ph.D., University of Kansas.

Roy, Bidhan (2009); Assistant Professor, General Engineering, Department of General Engineering; B.S., University of Calcutta (India); M.S., Indian Institute of Technology (India); Ph.D., University of Illinois at Urbana-Champaign.

Ruffner, Karen Blake (2010); Assistant Professor, Education, School of Education; B.A., University of Illinois at Urbana-Champaign; M.S.E., Northern Illinois University; Ed.D., National-Louis University.

Safari-Shad, Nader (2001); Associate Professor, Electrical Engineering, Department of Electrical Engineering; B.S., M.S., Oregon State University; Ph.D., UW-Madison.

Sagehorn, John (2007); Residence Hall Manager, Student Housing, Student Affairs; B.S., UW-Oshkosh; M.S., Illinois State University.

Salmon-Stephens, Tammy J. (1997); Director, Women in Engineering Program and Engineering Advising Office; B.S., M.S., UW-Platteville.

Sampson, Zora (2009); Director, Karrmann Library; B.F.A., M.L.I.S., University of Oklahoma.

Sandberg, T.A., (2007); Lecturer, Philosophy, Department of Humanities; B.A., M. Phil., M.A., University of Northern Iowa; M.A., Ph.D., University of Iowa.

Sanyi, Allison (2008); Assistant Coach, Intercollegiate Athletics; B.S., Loras College.
Scanlan, Thomas N. (1984); Professor, Computer Science, Department of Computer Science and Software Engineering; B.A., Marian College; M.A., Arizona State University; M.S., University of Alabama.

Schlager, Lynn M. (1997); Professor, Mechanical Engineering, Department of Mechanical and Industrial Engineering; B.S., Washington University; M.S., Stanford University; Ph.D., Iowa State University.

Schlueter, Jean E. (1996); Senior Student Health Nurse, University Health Services; B.S.N., University of Iowa.

Schmelz, Kimberly (2004); Alumni Director, Alumni Services, University Advancement; B.S., UW-Platteville.

Schmidt, Colleen (2005); Associate Student Services Specialist, Athletics; B.A., M.A., Lakeland College.

Schmitt, Robert L. (1998); Professor, Civil Engineering, Department of Civil and Environmental Engineering; B.S., M.S., Purdue University; Ph.D., UW-Madison.

Schneider, Juliette (2008); Associate Student Services Specialist, Children’s Center, Student Affairs; B.S., UW-Platteville.

Schroeder, Machelle K. (1990); Professor, Business Administration, Department of Business and Accounting; B.B.A., UW-Whitewater; M.B.A., UW-Parkside; Ph.D., UW-Madison.

Schulenburg, Chris (2007); Assistant Professor, Foreign Languages (Spanish), Department of Humanities; B.A., UW-Madison; M.A., University of Colorado; Ph.D., UW-Madison.

Schuler, David D. (2006); Assistant Professor, Theatre, Department of Performing and Visual Arts; B.M. Susquehanna University; M.A., State University of New York at Binghamton; Ph.D., University of Colorado.

Schulman, Debra L. (1988); Coach, Intercollegiate Athletics; Assistant Director, Athletics; B.S., UW-Milwaukee; M.S., Indiana University.

Sealy, Philip J. (1998); Associate Professor, Electrical Engineering, Department of Electrical Engineering; Chair, Department of Electrical Engineering; B.S., M.S., Ph.D., UW-Madison.

Sethne, Mark (2008); Outdoor Recreation Specialist, Athletics; B.S., B.S., M.S.E., UW-Platteville.

Sharkey, Michael (2006); Associate Professor, Philosophy, Department of Humanities; B.A., University of Notre Dame; M.A., Ph.D., Fordham University.

Sharma, Piyare L. (1986); Professor, Electrical Engineering, Department of Electrical Engineering; B.S., Regional Engineering College (India); M.S., Indian Institute of Technology (India); Ph.D., University of Akron.

Shelstrom, Marc R. (1995); Professor, Industrial Studies, Department of Industrial Studies; B.S., Northwest Missouri State University; M.S., Ph.D., Iowa State University.

Shepherd, Stephen E. (2004); Lecturer, English, Department of Humanities; B.A., M.A., Northern Michigan University; M.F.A, Vermont College.

Sherer, Michael S. (1996); Deputy Chief Information Officer, Information Technology; B.S., UW-Platteville.

Shields, Dennis J. (2010); Chancellor; B.A., Graceland College; J.D., University of Iowa College of Law.

Shiverick, Sean (2008); Assistant Professor, Psychology, Department of Psychology; B.S., University of Oregon; M.S., Ph.D., UW-Madison.

Short, Michelle (2007); Associate Student Services Specialist, Children’s Center; B.S., UW-Platteville.

Slowey, Alisha (2009); Associate Residence Hall Manager, Student Housing, Student Affairs; B.S., UW-Platteville.

Smidt, Warner K. (2006); Associate Professor, Industrial Studies, Department of Industrial Studies; B.S., M.S., Ph.D., Iowa State University.

Smith, Gary (2005); Outreach Program Manager, Southwest Wisconsin Small Business Development Center, Department of Business and Accounting; B.S., University of California at Los Angeles; M.A., Pepperdine University.

Smith, George E. (1977-83, 1985); Professor, Speech, Department of Performing and Visual Arts; Co-Director, Teaching and Learning Center; B.S., M.A., Ed.D., Northern Illinois University.

Snyder, Robert J. (2000); Professor, Communication Technologies, Department of Communication Technologies; B.S., UW-Oshkosh; M.A., Ph.D., Ohio University.

Soja, Julia (2006); Director, Children’s Center, Student Affairs; B.S., UW-Platteville.

Soja, Scott E. (2000); Associate Student Services Specialist, Intercollegiate Athletics; Senior Lecturer, Health and Physical Education, School of Education; B.S., California State University-Sonoma; M.Ed., University of Minnesota.

Soley, Kelly J. Sullivan (1998); Senior Development Specialist, University Relations; B.A., St. Louis University; M.A., UW-Madison.

Son, Wonim (2005); Assistant Professor, Education, School of Education; B.A., M.Ed., Sungshin Women’s University (Korea); Ph.D., Indiana State University.

Soofi, Abdollah S. (1980); Professor, Economics, Department of Social Sciences; B.S., M.S., California State Polytechnic University-Pomona; Ph.D., University of California-Riverside.
Spellman, Raymond G. (2001); Director, Highway Technician Certification Program; B.S., UW-Platteville.

Spoto, Raymond (1967); Professor, Foreign Languages (Spanish), Department of Humanities; B.A., Northern Illinois University; M.A., University of Illinois; Ph.D., University of Tennessee.

St. John, W. Doyle (1996); Professor, Engineering Physics, Department of Chemistry and Engineering Physics; B.S., Tulsa University; M.S., Ph.D., Oklahoma State University.

Stankovich, Wendy S. (2004); Lecturer, Biology, Department of Biology; B.S., UW-Platteville; M.S., UW-Milwaukee.

Stanley, Adam C. (2005); Associate Professor, History, Department of Social Sciences; B.A., Millikin University; M.A., Ph.D., Purdue University.

Stappert, Tonya L. (2000); Senior Information Processing Consultant, Learning Technology Center; B.S., M.S., UW-Platteville.

Starling Jr., Thomas J., (2005); Instrumentation Specialist, College of Engineering, Mathematics and Science; B.S., Northern Arizona University.

Steck, Francis X. (1990); Professor, Industrial Studies, Department of Industrial Studies; B.S., State University of New York at Oswego; M.A., Ph.D., Indiana State University.

Steiner, Charles (2007); Assistant Professor, Agriculture, School of Agriculture; B.S., M.S., UW-Platteville; Ph.D., Iowa State University.

Steiner, Steven A. (1997); Professor, Chemistry, Department of Chemistry and Engineering Physics; B.S., University of Nebraska, Omaha; M.S., University of Nebraska, Lincoln; Ph.D., University of California, Riverside.


Stinson, Karen (2010); Director, School of Education; Professor, Education, School of Education; B.A., M.A., Ed.D., University of Northern Iowa.

Stipe, Stormy (2004); Associate Professor, English, Department of Humanities; B.A., Stephens College; M.F.A., Sarah Lawrence College; Ph.D., University of Houston.

Storley, Christine (2008); Distance Learning Coordinator and Lecturer, Business and Accounting, Department of Business and Accounting; B.S., M.S., UW-La Crosse; Ph.D., Capella University.

Stradford, H. Todd (1997); Associate Professor, Geography, Department of Social Sciences; B.S., St. Lawrence University; M.A., University of Missouri; Ph.D., University of Oklahoma.

Strangel, Bradley (2010); Assistant Coach, Intercollegiate Athletics; Counselor, Career Services; B.S., UW-Platteville.

Stuckey, Gloria J. (1990); Laboratory Manager, Biology and Social Sciences; B.S., UW-Platteville.

Stutenberg, Mary Joan (2006); Associate Student Services Specialist, Master of Science in Engineering Program, College of Engineering, Mathematics and Science; B.A., Marycrest College.

Summers, Scott (2010); Assistant Professor, Computer Science, Department of Computer Science and Software Engineering; B.S., UW-Green Bay; M.S., Iowa State University.

Sunderdance, Brenda (2010); Student Services Specialist, Services for Students with Disabilities; B.A., UW-Platteville.

Swenson, James A. (2005); Associate Professor, Mathematics, Department of Mathematics; B.A., Augustana College; M.S., Ph.D., University of Minnesota.

Swift, Elizabeth (2009); Associate Advisor, Graduate Program in Project Management; B.A., Clark College; M.P.A., Upper Iowa University.

Swigart, Christal (2007); Media Specialist, Distance Learning Center; B.S., UW-Platteville.

Tabrizi, Majid T. (1987); Professor, Industrial Studies, Department of Industrial Studies; B.B.A., Kerman College of Administration and Commerce (Iran); B.E.T., Southwest State University; M.S., UW-Stout; D.I.T., University of Northern Iowa.

Tabrizi, Pusaporn P. (1997); Advisor, Multicultural Educational Resource Center; B.A., Silpakorn University (Thailand); M.S., Minnesota State University at Mankato; M.A., University of Northern Iowa.

Tebbe, Jeffrey J. (2005); Lecturer, Speech, Department of Performing and Visual Arts; B.A., Briar Cliff College; M.S.E., UW-Platteville.

Tembei, John N. (2000); Professor, Agriculture, School of Agriculture; B.S., Iowa State University; M.S., Auburn University; Ph.D., South Dakota State University.

Teng, Hong (2008); Assistant Professor, General Engineering, Department of General Engineering; B.S., East China Normal University (China); M.S., Shanghai Jiao Tong University (China); M.S., Marquette University; Ph.D., University of Illinois at Urbana-Champaign.

Thede, Andrea (2005); Residence Hall Manager, Student Housing, Student Affairs; B.S., UW-La Crosse; M.S.Ed., University of Nebraska at Kearney.

Thomas, Anthony D. (1994); Professor, Mathematics, Department of Mathematics; A.B., Washington University; M.S., Ph.D., Purdue University.

Thomas, Paige (2010); Associate Outreach Specialist, Distance Learning Center, Alternative Delivery Systems; B.A., University of Pittsburgh.
Thompson, M. Keith (2004); Associate Professor, Civil Engineering, Department of Civil and Environmental Engineering; B.S., North Carolina State; M.S., Ph.D., University of Texas-Austin.

Thrun, Jason R. (1998); Professor, Mathematics, Department of Mathematics; B.S., University of Illinois at Urbana-Champaign; M.S., Ph.D., Northern Illinois University.

Tigges, Adam (2010); Laboratory Program Manager, College of Engineering, Mathematics and Science; B.S., UW-Platteville.

Trendt, Diana J. (1999); Director, University Career Planning and Placement Services; B.S., UW-Platteville.

Trewin, Amanda L. (2001); Associate Professor, Biology, Department of Biology; B.S., UW-Platteville; M.S., Ph.D., UW-Milwaukee.

Trezevant, William (2010); Chief of Staff and Special Assistant to the Chancellor, Chancellor’s Office; B.A., Fordham University; J.D., SUNY at Buffalo, School of Law.

Trotter, Sheila R. (1989); Assistant Director, Financial Aid, Student Affairs; B.S., M.S.E., UW-Platteville.

Tucker, Amanda (2008); Assistant Professor, English, Department of Humanities; B.A., M.A., University of North Texas.

Tuescher, Kimberly D. (1993); Professor, Counselor Education, School of Education; B.S., M.S.E., UW-Oshkosh; Ph.D., UW-Madison.

Tuescher-Gill, Heidi (2002); Assistant Director, Admission and Enrollment Services; B.S., UW-Platteville.

Tuft, Marilyn J. (1968); Professor, Biology, Department of Biology; B.A., Northern Michigan University; M.S., Ph.D., UW-Madison.

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); Director, Admission and Enrollment Services, Student Affairs; B.S., M.S., UW-Platteville.

Ul-Haq, Irfan (2005); Associate Professor, Mathematics, Department of Mathematics; M.S., Punjab University (Pakistan); M.S., University of Alabama at Huntsville; Ph.D., University of Alabama at Tuscaloosa.

Van Buren, David P. (1976); Professor, Criminal Justice, Department of Criminal Justice; Associate Vice Chancellor; Dean, School of Graduate Studies; Dean, Confucius Institute; B.A., St. Bonaventure University; M.A., Ph.D., State University of New York at Albany.

Van Paemel, Catherine Huff (2001); Lecturer, Foreign Languages (Spanish), Department of Humanities; B.A., Wartburg College; M.A., University of Northern Iowa.

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., UW-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.

Viney, Michael A. (1985); Assistant Chancellor for Student Affairs; B.S., M.S.E., UW-Platteville; Ph.D., University of Northern Colorado.

Viney, Rhonda L. (1985); Director, Student Housing, Student Affairs; B.S., M.S.E., UW-Platteville.

Voelz, Richard A. (1992); Senior Counselor, University Counseling Services; B.A., UW-Madison; M.S., UW-Whitewater.

Wagner, Jason (2008); Assistant Coach, Intercollegiate Athletics; B.S., UW-Stevens Point; M.S., California University of Pennsylvania.

Walter, Chris W. (1997); Advisor, Admission and Enrollment Services; Coach, Intercollegiate Athletics; B.A., UW-Madison.

Wang, Judith J. (1992); Lecturer, Psychology, Department of Psychology; B.S., UW-Madison; B.A., M.S.E., UW-Platteville.

Waugh, Richard A. (1978); Professor, Geography and Geology, Department of Social Sciences; B.S., M.A., M.A., University of Missouri-Columbia; Ph.D., UW-Madison.

Weber, Wayne C. (1997); Professor, Biology, Department of Biology; B.S., M.S., Ph.D., Colorado State University.

Wedige, Keri (2004); Senior Outreach Specialist, 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., UW-Platteville.

Weil, Tyler (2008); Associate Advisor, Graduate Program in Wuhan, China; B.S., UW-Superior.

Wein, Kory (2005); Associate Professor, English, Department of Humanities; Chair, Department of Humanities; 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.

Wesley, Artanya M. (2006); Interim Dean of Students, Student Affairs; B.S., M.S.E., UW-Platteville.

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., UW-Platteville.

Wiese, James A. (1995); Instrumentation Specialist, College of Engineering, Mathematics and Science; B.S., Marquette University.

Willenborg, Sharon (2010); Director, Financial Aid; B.A., Clarke College; M.A., University of Dubuque.

Williams, Mary Rose (2005); Associate Professor, Communication Technologies, Department of Communication Technologies; Chair, Department of Communication Technologies; B.A., George Mason University; M.A., Colorado State University; Ph.D., University of Oregon.

Wills, Sheryl L. (1994); Professor, Mathematics, Department of Mathematics; B.S., M.S., Ph.D., Northern Illinois University.

Wilson, D. Joanne (1986); Interim Dean, College of Engineering, Mathematics and Science; Professor, General Engineering, Department of General Engineering; B.A., University of California-San Diego; M.S., Ph.D., University of Nebraska-Lincoln.

Wilson, Megan (2010); Coach, Intercollegiate Athletics; Lecturer, Physical Education, School of Education; B.S., M.S.E., UW-Stevens Point.

Winder, Kaye S. (1986); Associate Professor, Art, Department of Performing and Visual Arts; B.A., M.A., Ph.D., University of Iowa.

Wolfe, Sean R. (2007); Information Processing Consultant, Information Technology; B.A., UW-Platteville.

Wright, Kristopher K. (2001); Associate Professor, Biology, Department of Biology; B.S., UW-Madison; M.S., Ph.D., Oregon State University.

Wright, Scott C. (2010); Assistant Professor, Project Management, Department of Business and Accounting; M.S., 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, Tsunghsuhc (2008); Assistant 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 Chemistry and Engineering Physics; M.S., University of Alabama at Tuscaloosa; Ph.D., University of Illinois at Urbana-Champaign.

Wubben, Lisa (2008); Assistant Coach, Intercollegiate Athletics; Advisor, Admission and Enrollment Services, Student Affairs; B.S., UW-Platteville.

Wurtzel, Judith M. (1996); Senior Academic Librarian, Karrmann Library; B.S., Edgewood College; M.A., UW-Madison.

Wyse, Phillip O. (1971); Director, Pioneer Farm, School of Agriculture; B.S., M.A.T., UW-Platteville.

Yang, Qi (1995); Professor, Computer Science, Department of Computer Science and Software Engineering; B.S., Sichuan University (China); M.S., Ph.D., University of Illinois-Chicago.

Young, Kay T. (1993); Senior Instructional Specialist, Karrmann Library; B.A., UW-Platteville.

Young, Philip W. (1987); Professor, Physics, Department of Chemistry and Engineering Physics; B.S., Houghton College; M.S., Ph.D., University of Colorado.

Yunck, Steve A. (2008); Assistant Professor, Communication Technologies, Department of Communication Technologies; B.F.A, UW-Stevens Point; M.A., M.F.A., UW-Madison.

Zach, Richard J. (2006); Laboratory Manager II, Department of Industrial Studies; B.S., M.S., UW-Platteville.

Zampaloni, Michael A. (2007); Assistant Professor, Mechanical Engineering, Department of Mechanical and Industrial Engineering; B.S., M.S., Ph.D., Michigan State University.

Zasada, Michelle (2009); Outreach Specialist, Distance Learning Center; B.A., UW-Platteville.

Zauche, Timothy H. (2001); Professor, Chemistry, Department of Chemistry and Engineering Physics; Chair, Department of Chemistry and Engineering Physics; B.S., University of Northern Iowa; Ph.D., Iowa State University.

Zentner, Roderick W. (1990); Associate Professor, Physical Education and Health, School of Education; B.S., M.S., UW-La Crosse; D.Ed., University of Oregon.

Zidon, Mark G. (1990); Professor, Agricultural Industries, School of Agriculture; B.S., M.S., North Dakota State University; Ph.D., Iowa State University.

Zielinski, Matthew (2005); Associate Residence Hall Manager, Student Housing, Student Affairs; B.S., UW-Platteville.
Emeriti Faculty and Retired Academic Staff

John C. Adams .................................................. Economics
Kahtan Al Yasiri .................................................. Economics
John E. Ambrosius ............................................ Agricultural Industries
Terry L. Baker .................................................. Physics
Harold D. Beals ................................................ Agricultural Industries
Debra R. Becker ................................................ Distance Learning
Steven Becker .................................................. Accounting
Shirley C. Beighley .......................................... Student Services
F. Gerald Bench ................................................ Speech
Dale K. Bernhardt .............................................. Student Support Services
Ralph Bjork ...................................................... Computer Science
M. Ronald Bottaccini ...................................... Mechanical Engineering
Stephanie R. Branson ....................................... English
Howard Brooks ................................................ Industrial Studies
Gayle G. Bull ................................................... Administrative Services
George Bullis .................................................. Mathematics
Bill M. Bungardner ......................................... Industrial Studies
Russell E. Burgett ............................................. Education
Edward O. Busby ............................................. Engineering
Kenneth Buttry ................................................ Civil Engineering
Carol Sue Butts ............................................... Administration
Robert L. Campbell ........................................ Agricultural Industries
William L. Campbell ...................................... Mathematics
Walter Chmielowski ....................................... Mechanical Engineering
Patricia C. Collins .......................................... Physical Education and Health
Thomas P. Collins .......................................... Theatre
John E. Cottingham ........................................ Agricultural Industries
Ralph W. Curtis ................................................ Chemistry
Edward Deneen ............................................. Registrar
Peter DiMeglio .............................................. History
Fred E. Domann ............................................. Engineering Physics
Maria Reese Drake .......................................... Financial Aid
Evelyn M. Duesbury ....................................... Accounting
Elizabeth A. Duweur ....................................... Biology
Jay N. Dykstra ................................................ Biology
Richard W. Egley .......................................... Student Affairs
William C. Eherenman .................................. Counselor Education
Frank Eshelman ............................................. Mechanical Engineering
Dale Fatzinger .............................................. Arts and Sciences
Harold Fenrick ............................................. Chemistry
Robert A. Fidrych .......................................... Business Administration
Ross Fiedler .................................................. Mechanical Engineering
Jennifer Foley ............................................... College of EMS
Robert Foulkes ............................................. Biology
Barbara A. Gates ........................................... Physical Education and Health
Moharinder S. Gill .......................................... Computer Science
Thomas Goltry ............................................... Theatre
Marilyn Gottschalk ....................................... English
Roger E. Gottschalk ....................................... Art
Richard Graney ............................................ Mathematics
Merlyn D. Gray ............................................ Mathematics
William Hamshire ........................................ Mathematics
Walter T. Hannan .......................................... Campus Planning
Robert Hansen ............................................ Chemistry
Roger Hauser ................................................ Industrial Studies
Charles J. Heidenreich ................................ Agricultural Sciences
Thomas P. Hickey .......................................... English
Roger Higgs .................................................. Agriculture
James R. Holler ........................................... Biology
C. Ellsworth Hood ........................................ Philosophy
Roger Hoover ............................................... Industrial Studies
Kathleen Iselin ............................................. Children’s Center
Walter C. Iselin ............................................. Health and Physical Education
Alva H. Jared ................................................ Industrial Studies
Nicholas A. Johansen .................................... Counselor Education
Thomas J. Jonas ........................................... Speech
Kenneth G. Kamps ........................................ Education
Barbara H. Karrmann ...................................... Admissions and Enrollment Management
Kathleen A. Kelley .......................................... Human Resources
Kenneth C. Kilian .......................................... Agricultural Sciences
Deborah Kinder ............................................ English
Jack Kirby ...................................................... Industrial Studies
William E. Kissner ........................................ Civil Engineering
Dwight Klaassen ........................................... Chemistry
Richard A. Klawiter ....................................... Industrial Studies
Eugene Korb .................................................. Engineering
Carol Lange .................................................. Education
Lang Wah Lee ................................................ Mechanical Engineering
Deborah A. Lewis .......................................... English
Michael E. Lewis .......................................... Music
Robert Lind .................................................. Physics
Thomas Lindahl ............................................ Agriculture
Lloyd L. Linden ............................................. Student Affairs
Terrence L. Liska .......................................... Economics
Thomas Lo Guidice ...................................... Education
Frank J. Lofy ................................................ Educational Technology
Gediminas Marchetas ...................................... Foreign Languages
David J. Markee ........................................... Administration
Lou Ann Markee .......................................... University Art and Design
Earl McCullough .......................................... Civil Engineering
William G. Melville ................................ ...... Education
Alvin Menninga ........................................... English
Joyce Miller .................................................. Chemistry
William K. Miller .......................................... Psychology
Milton Mitchell ............................................ Mathematics
Edwin E. Moore ........................................... Education
Stanley R. Moore .......................................... Philosophy
Judith E. Moriarty ......................................... Library Services
Paul Moriarty ............................................... Information Services
Robert M. Morpew ........................................ Computer Science
Thomas A. Morris ........................................ Counselor Education
Calvin L. Myrbo .......................................... English
Robert P. Nusbaum ....................................... Agricultural Sciences
David Olson ................................................ Physical Facilities
John O’Neill ............................................... Communication Technologies
Fred Oomens ................................................ Agriculture
Marjon Ornsen ............................................ Foreign Languages
Jerry D. Oxenford ....................................... Business Administration
### Chancellor’s Cabinet 2011-2012

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dennis J. Shields</td>
<td>Chancellor</td>
</tr>
<tr>
<td>Laura Anderson</td>
<td>Interim Dean, College of Liberal Arts and Education</td>
</tr>
<tr>
<td>Kevin Bernhardt</td>
<td>Director, Pioneer Academic Center for Community Engagement</td>
</tr>
<tr>
<td>Alison Bunte</td>
<td>Associate Dean, College of Liberal Arts and Education</td>
</tr>
<tr>
<td>Michael Compton</td>
<td>Director, School of Agriculture</td>
</tr>
<tr>
<td>Dennis Cooley</td>
<td>Assistant Chancellor for Advancement/Development</td>
</tr>
<tr>
<td>Robert Cramer</td>
<td>Assistant Chancellor for Administrative Services</td>
</tr>
<tr>
<td>Barbara Daus</td>
<td>Executive Director, International Programs</td>
</tr>
<tr>
<td>Peter Davis</td>
<td>Director, Physical Plant</td>
</tr>
<tr>
<td>Dawn Drake</td>
<td>Executive Director, Alternative Delivery Systems</td>
</tr>
<tr>
<td>Shane Drecinski</td>
<td>Director of General Education/Assessment Coordinator</td>
</tr>
<tr>
<td>E. Jeanne Durr</td>
<td>Director, Human Resources</td>
</tr>
<tr>
<td>Paul Erickson</td>
<td>Deputy Chief Public Information Officer</td>
</tr>
<tr>
<td>Duane Ford</td>
<td>Dean, College of Business, Industry, Life Science and Agriculture</td>
</tr>
<tr>
<td>Les Hollingsworth</td>
<td>Chair, Academic Staff Senate</td>
</tr>
<tr>
<td>Lee Jadaan</td>
<td>Director, University Information and Communications</td>
</tr>
<tr>
<td>David Kieckhafer</td>
<td>Registrar</td>
</tr>
<tr>
<td>Joe Lomax</td>
<td>Interim Director, Multicultural Educational Resource Center/Diversity Initiatives</td>
</tr>
<tr>
<td>Mark Mailloux</td>
<td>Senior Institutional Planner</td>
</tr>
<tr>
<td>Erich Matola</td>
<td>Chief Information Officer</td>
</tr>
<tr>
<td>Jodi McDermott</td>
<td>Assistant Dean, College of Business, Industry, Life Science and Agriculture</td>
</tr>
<tr>
<td>James Mueller</td>
<td>Executive Director of Auxiliary Services</td>
</tr>
<tr>
<td>Mittie Nimocks</td>
<td>Provost and Vice Chancellor for Academic Affairs</td>
</tr>
<tr>
<td>Jonathan Predaina</td>
<td>Student Body President</td>
</tr>
<tr>
<td>Arthur Ranney</td>
<td>Special Assistant to the Provost</td>
</tr>
<tr>
<td>Lisa Riedle</td>
<td>Associate Dean, College of Engineering, Mathematics and Science</td>
</tr>
<tr>
<td>Kim Schmelz</td>
<td>Alumni Coordinator</td>
</tr>
<tr>
<td>Karen Stinson</td>
<td>Director, School of Education</td>
</tr>
<tr>
<td>Bill Trezevant</td>
<td>Chief of Staff/Special Assistant to the Chancellor</td>
</tr>
<tr>
<td>Angela Udelhofen</td>
<td>Director, Admission and Enrollment Services</td>
</tr>
<tr>
<td>David Van Buren</td>
<td>Associate Vice Chancellor and Dean of Graduate Studies</td>
</tr>
<tr>
<td>Mick Viney</td>
<td>Assistant Chancellor for Student Affairs</td>
</tr>
<tr>
<td>Artanya Wesley</td>
<td>Interim Dean of Students</td>
</tr>
<tr>
<td>Joanne Wilson</td>
<td>Interim Dean, College of Engineering, Mathematics and Science</td>
</tr>
<tr>
<td>Joyce Burkholder</td>
<td>Recording Secretary</td>
</tr>
</tbody>
</table>


University of Wisconsin Administrators

Kevin P. Reilly, President
Michael L. Morgan, Senior Vice President for Administration and Fiscal Affairs
Rebecca R. Martin, Senior Vice President for Academic Affairs
Deborah A. Durcan, Vice President for Finance
Tomas L. Stafford, General Counsel

Board of Regents

Jeffrey Bartell, Madison
Mark J. Bradley, Wausau
Judith V. Crain, Green Bay
Danae Davis, Milwaukee
Stan Davis, Sun Prairie
John Drew, Milwaukee
Tony Evers, Madison
Michael J. Falbo, Milwaukee
Thomas Loftus, Sun Prairie
Edmund Manydeeds, Eau Claire
Charles Pruitt, Milwaukee (Regent President)
Jessica Schwalenberg, Delafield
Brent Smith, La Crosse
Michael J. Spector, Milwaukee (Regent Vice President)
José F. Vásquez, Milwaukee
David G. Walsh, Madison
Aaron Wingad, Eau Claire (Student Regent)
Betty Womack, Brown Deer
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 Parallel Program
A program of study offered at some Wisconsin technical colleges, or at a recognized technical college from another state. Courses in these programs have been identified in advance of transfer by the university and the technical college.

College/School/Department
The university is comprised of three colleges, two schools and a host of departments. Generally speaking, colleges, schools and departments are the administrative units responsible for the fiscal and academic concerns of the university. The chancellor is the chief executive officer of the university, the provost is the head of academic affairs, academic deans are the administrative heads of their respective colleges and department chairs/directors are the administrative heads of their respective areas.

Corequisite
A course that must be taken at the same time as another course.

Credit Hour
A 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 after one semester of attendance is 1.60.
After the second and third semesters of attendance, a student must have a cumulative G.P.A. of 1.80 or higher.

**Grade Point**
The numerical value given to letter grades. At 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 conduct on university grounds. It describes misconduct and provides sanctions for those who are found to have engaged in misconduct on university land.

**Suspension**
To be excluded from the university as a penalty for failure to meet academic or behavioral standards.

**Teaching Major/Minor**
A state Department of Public Instruction approved program for teacher certification for teaching at the elementary, middle or secondary school level.
Index

Academic Bankruptcy ........................................ 21
Academic Load .................................................. 17
Academic Probation and Suspension ...................... 22
Academic Staff ................................................... 296
Academic Year .................................................... 316
ACES ................................................................ 47
Actuarial Science .................................................. 120
Accounting .......................................................... 78, 81
Accounting Courses ............................................. 184
Add and Drop ...................................................... 316
Administration .................................................... 315
Admission and Academic Appeals ............................ 23
Admission Categories ........................................... 8
Admission, Freshmen ........................................... 8
Admission, International Students .......................... 11
Admission to General Engineering ......................... 115
Admission to Student Teaching ............................. 171
Admission, Transfer Students ................................. 8
Advanced Credit, Veterans .................................... 16
Advanced Placement Examinations ......................... 16
Advising ............................................................. 10, 47
Affirmative Action Statement ................................. 5
Agribusiness ......................................................... 56
Agricultural Education .......................................... 58
Agricultural/Industrial Technology ......................... 90
Agricultural Industry Courses .............................. 185
Agricultural Science Courses ................................. 188
Agriculture, School of .......................................... 54
Animal Science ..................................................... 61
Applied Management .......................................... 80
Art ................................................................. 143
Art Courses ........................................................ 192
Art Education ...................................................... 145
Associate Degree ............................................... 24
Athletics ............................................................ 47
Auditing Courses ............................................... 18
Bachelor’s Degree ............................................... 24
Bachelor’s Degree, Second ................................. 24
Biochemistry ....................................................... 98
Biohealth/Physiology .......................................... 72
Biology ............................................................. 70
Biology Courses .................................................. 196
Biotechnology ..................................................... 76
Board of Regents, UW System ............................... 315
Botany .............................................................. 73
Breeding and Genetics ......................................... 65
Broad Field Science ............................................. 102
Building Construction Management ...................... 90, 92
Building Construction Safety Management ............... 90
Business Administration ................................. 79, 81
Business Administration Courses ......................... 200
Business and Accounting ..................................... 77
Business and Marketing ....................................... 64
Campus Employment .......................................... 27
Campus Programming and Relations ...................... 51
Campus Visits ...................................................... 5
Career Center ...................................................... 47
Certification ....................................................... 316
Center for the Arts .............................................. 51
Chancellor’s Cabinet ............................................ 314
Changing Majors ............................................... 21
Chemistry .......................................................... 97
Chemistry Courses .............................................. 205
Chemistry and Engineering Physics ...................... 97
Children’s Center ............................................... 47
Civil Engineering ................................................. 105
Civil Engineering Courses .................................. 208
Class Attendance ................................................. 20
Class Standing ................................................... 316
College Level Examination Programs ..................... 15
College of Business, Industry, Life Science and Agriculture .... 53
College of Engineering, Mathematics and Science ........ 94
College of Liberal Arts and Education ..................... 126
Commodity and Price Analysis ................................ 56
Communication and Electronics ............................ 114
Communication and Marketing ............................. 57
Communication Technologies ............................... 83
Communication Technologies Courses .................. 211
Competency Requirements ................................... 29
Computer Engineering ........................................ 114
Computer Information Systems ............................. 110
Computer Integrated Manufacturing ...................... 92
Computer Labs and Resources ............................... 45
Computer Science ............................................... 81, 108
Computer Science and Software Engineering ............. 108
Computer Science Courses .................................. 215
Computer Technology ......................................... 109
Conference Services and Event Planning .................. 50
Continuing Education ......................................... 42
Controls ........................................................... 114
Cooperative Education Programs ............................ 42
Corequisite ........................................................ 316
Corrections .......................................................... 129
Counseling Services ........................................... 47
Counselor Education .......................................... 179
Counselor Education Courses ............................... 217
Course Changes .................................................. 18
Course Codes ..................................................... 183
Course Descriptions ........................................... 183
Course Numbering .............................................. 17, 183
Course Waivers ................................................... 16
Creative Writing .................................................... 136
Credit Hour ........................................................ 316
Credit Load ........................................................ 316
Criminalistics ..................................................... 99
Criminal Justice ................................................. 128
Criminal Justice Courses ..................................... 218
Cytochemistry ..................................................... 73
Dairy ............................................................... 62
David J. and Lou Ann Markee Pioneer Student Center ...... 51
Dean ............................................................... 316
Degree Program .................................................. 316
Department of Business and Accounting .................. 77
Department of Chemistry and Engineering Physics ....... 97
Department of Civil and Environmental Engineering .... 104
Department of Communication Technologies ............. 83
Department of Computer Science and Software Engineering .... 108
Department of Criminal Justice .............................. 128
Department of Electrical Engineering ...................... 112
Department of General Engineering ....................... 115
Department of Humanities ................................... 132
Department of Industrial Studies ............................ 87
Department of Mathematics ................................. 118
Department of Mechanical and Industrial Engineering .... 122
Department of Performing and Visual Arts ............... 143
Department of Psychology .................................... 153
Department of Social Sciences ............................... 158
Dining Services ................................................... 48
Discipline Committee, Appeal Tribunal ........................ 24
Double Majors .................................................... 22
DRAFTING and Product Development Technology .......... 92
Dropping Courses ................................................. 19
Early Childhood/Adolescence ................................ 178
Ecology ............................................................ 73
Economics .......................................................... 158
Economics Courses ............................................. 220
Education Abroad ................................................. 42
Education, Approved Programs and Majors ............... 172
Education, Early Adolescence ............................... 176
Education, Early Childhood/Middle Childhood .......... 175
Education Office of Special Programs ....................... 171
Education, Physical ............................................. 180, 269
Education, School of .......................................... 170
Education, Teacher ............................................. 174
Elective .............................................................. 316
Electrical Engineering ........................................... 112
Electrical Engineering Courses ............................... 222
Eligibility, Transfer Student .................................... 9
Emeriti Faculty ..................................................... 312
Emphasis ............................................................ 316
Energy Courses .................................................... 316
Engineering Admissions and Academic Standards Committee .... 95
Engineering, Civil ................................................. 104
Engineering, Electrical ......................................... 112
Engineering, Environmental .................................. 106
Engineering, General .......................................... 115
<table>
<thead>
<tr>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering, Industrial</td>
<td>122</td>
</tr>
<tr>
<td>Engineering Management</td>
<td>123</td>
</tr>
<tr>
<td>Engineering, Mechanical</td>
<td>124</td>
</tr>
<tr>
<td>Engineering Physics</td>
<td>99</td>
</tr>
<tr>
<td>Engineering Physics Courses</td>
<td>231</td>
</tr>
<tr>
<td>Engineering Policies and Procedures</td>
<td>95</td>
</tr>
<tr>
<td>Engineering Technology</td>
<td>57</td>
</tr>
<tr>
<td>English</td>
<td>133</td>
</tr>
<tr>
<td>English Courses</td>
<td>225</td>
</tr>
<tr>
<td>English Education</td>
<td>135</td>
</tr>
<tr>
<td>English Non-Teaching</td>
<td>135</td>
</tr>
<tr>
<td>English, Remedial</td>
<td>43</td>
</tr>
<tr>
<td>Environmental Engineering</td>
<td>106</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>161</td>
</tr>
<tr>
<td>Equal Opportunity Statement</td>
<td>5</td>
</tr>
<tr>
<td>Ethnic Studies</td>
<td>131</td>
</tr>
<tr>
<td>Ethnic Studies Courses</td>
<td>232</td>
</tr>
<tr>
<td>Event Management and Reservations</td>
<td>52</td>
</tr>
<tr>
<td>Excess Credit Policy</td>
<td>19</td>
</tr>
<tr>
<td>Facilities</td>
<td>6</td>
</tr>
<tr>
<td>Faculty</td>
<td>6, 296</td>
</tr>
<tr>
<td>Finance</td>
<td>79, 120</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>27</td>
</tr>
<tr>
<td>Fine Arts – Art Education</td>
<td>144</td>
</tr>
<tr>
<td>Food Marketing</td>
<td>79, 81</td>
</tr>
<tr>
<td>Foreign Language Certificate</td>
<td>139</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>138</td>
</tr>
<tr>
<td>Forensic Courses</td>
<td>234</td>
</tr>
<tr>
<td>Forensic Investigation</td>
<td>130</td>
</tr>
<tr>
<td>Free Application for Federal Student Aid...</td>
<td>27</td>
</tr>
<tr>
<td>French</td>
<td>139</td>
</tr>
<tr>
<td>French Courses</td>
<td>235</td>
</tr>
<tr>
<td>French Education</td>
<td>139</td>
</tr>
<tr>
<td>Freshman Scholarships</td>
<td>28</td>
</tr>
<tr>
<td>Freshmen Admission</td>
<td>8</td>
</tr>
<tr>
<td>Full Time Student</td>
<td>316</td>
</tr>
<tr>
<td>General Business</td>
<td>81</td>
</tr>
<tr>
<td>General Education Approved Course</td>
<td>32</td>
</tr>
<tr>
<td>General Education Credit</td>
<td>29</td>
</tr>
<tr>
<td>Requirements/Course Listing</td>
<td>29</td>
</tr>
<tr>
<td>General Education Philosophy</td>
<td>29</td>
</tr>
<tr>
<td>General Engineering</td>
<td>115</td>
</tr>
<tr>
<td>General Engineering Courses</td>
<td>236</td>
</tr>
<tr>
<td>Geographic Information Systems</td>
<td>161</td>
</tr>
<tr>
<td>Geography</td>
<td>159</td>
</tr>
<tr>
<td>Geography Courses</td>
<td>238</td>
</tr>
<tr>
<td>Geology</td>
<td>160</td>
</tr>
<tr>
<td>Geology Courses</td>
<td>241</td>
</tr>
<tr>
<td>German</td>
<td>140</td>
</tr>
<tr>
<td>German Courses</td>
<td>242</td>
</tr>
<tr>
<td>German Education</td>
<td>140</td>
</tr>
<tr>
<td>Glossary, University</td>
<td>316</td>
</tr>
<tr>
<td>Good Standing</td>
<td>316</td>
</tr>
<tr>
<td>Grade Point</td>
<td>317</td>
</tr>
<tr>
<td>Grade Point Average</td>
<td>317</td>
</tr>
<tr>
<td>Grades</td>
<td>20</td>
</tr>
<tr>
<td>Graduate Courses, Undergraduates</td>
<td>20</td>
</tr>
<tr>
<td>Graduation</td>
<td>25</td>
</tr>
<tr>
<td>Grants</td>
<td>27</td>
</tr>
<tr>
<td>Graphic Design</td>
<td>144</td>
</tr>
<tr>
<td>Greek Life</td>
<td>52</td>
</tr>
<tr>
<td>Grievances, Students</td>
<td>23</td>
</tr>
<tr>
<td>Harry and Laura Nohr Gallery</td>
<td>52</td>
</tr>
<tr>
<td>Health, Physical Education</td>
<td>180</td>
</tr>
<tr>
<td>High Honors</td>
<td>21</td>
</tr>
<tr>
<td>High School Special Students</td>
<td>8</td>
</tr>
<tr>
<td>History</td>
<td>162</td>
</tr>
<tr>
<td>History Courses</td>
<td>243</td>
</tr>
<tr>
<td>History, UW-Platteville</td>
<td>7</td>
</tr>
<tr>
<td>Home-Schooled Student Admission</td>
<td>9</td>
</tr>
<tr>
<td>Honors, Scholastic</td>
<td>21</td>
</tr>
<tr>
<td>Housing, Off-Campus</td>
<td>52</td>
</tr>
<tr>
<td>Housing, On-Campus</td>
<td>49</td>
</tr>
<tr>
<td>Housing Policy</td>
<td>49</td>
</tr>
<tr>
<td>Humanities</td>
<td>132</td>
</tr>
<tr>
<td>Human Resource Management</td>
<td>80</td>
</tr>
<tr>
<td>Human Services</td>
<td>154</td>
</tr>
<tr>
<td>Human Systems</td>
<td>123</td>
</tr>
<tr>
<td>Imaging Media</td>
<td>84</td>
</tr>
<tr>
<td>Incomplete</td>
<td>317</td>
</tr>
<tr>
<td>Independent Study</td>
<td>317</td>
</tr>
<tr>
<td>Individually Contracted Major</td>
<td>44</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>122</td>
</tr>
<tr>
<td>Industrial Engineering Courses</td>
<td>246</td>
</tr>
<tr>
<td>Industrial Studies</td>
<td>87</td>
</tr>
<tr>
<td>Industrial Studies Courses</td>
<td>248</td>
</tr>
<tr>
<td>Industrial Technology Management</td>
<td>90</td>
</tr>
<tr>
<td>Information Services</td>
<td>45</td>
</tr>
<tr>
<td>Information Systems</td>
<td>123</td>
</tr>
<tr>
<td>Information Technology</td>
<td>45</td>
</tr>
<tr>
<td>Installment Payment Plan</td>
<td>18</td>
</tr>
<tr>
<td>Instrumental Music</td>
<td>148</td>
</tr>
<tr>
<td>Integrated Media</td>
<td>84</td>
</tr>
<tr>
<td>Integrated Supply Chain Management</td>
<td>81</td>
</tr>
<tr>
<td>International Business</td>
<td>81</td>
</tr>
<tr>
<td>International Students</td>
<td>11</td>
</tr>
<tr>
<td>International Studies</td>
<td>163</td>
</tr>
<tr>
<td>Internship</td>
<td>317</td>
</tr>
<tr>
<td>Intramurals</td>
<td>48</td>
</tr>
<tr>
<td>Involvement</td>
<td>50</td>
</tr>
<tr>
<td>Journalism</td>
<td>84</td>
</tr>
<tr>
<td>Karrmann Library</td>
<td>19</td>
</tr>
<tr>
<td>Late Fee</td>
<td>45</td>
</tr>
<tr>
<td>Law Enforcement</td>
<td>129</td>
</tr>
<tr>
<td>Learning Technology Center</td>
<td>46</td>
</tr>
<tr>
<td>Liberal Arts Areas</td>
<td>30</td>
</tr>
<tr>
<td>Library</td>
<td>45</td>
</tr>
<tr>
<td>Literature</td>
<td>135</td>
</tr>
<tr>
<td>Loans</td>
<td>27</td>
</tr>
<tr>
<td>“M”</td>
<td>7</td>
</tr>
<tr>
<td>Major</td>
<td>317</td>
</tr>
<tr>
<td>Major, Changing</td>
<td>21</td>
</tr>
<tr>
<td>Major, Declaring</td>
<td>21</td>
</tr>
<tr>
<td>Majors, Double</td>
<td>22</td>
</tr>
<tr>
<td>Management</td>
<td>57, 80</td>
</tr>
<tr>
<td>Manufacturing Technology Management</td>
<td>91</td>
</tr>
<tr>
<td>Mathematics</td>
<td>118</td>
</tr>
<tr>
<td>Mathematics Courses</td>
<td>254</td>
</tr>
<tr>
<td>Mathematics Learning Center</td>
<td>48</td>
</tr>
<tr>
<td>Math, Remedial</td>
<td>43</td>
</tr>
<tr>
<td>Matriculate</td>
<td>317</td>
</tr>
<tr>
<td>Meat and Livestock</td>
<td>62</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>124</td>
</tr>
<tr>
<td>Mechanical Engineering Courses</td>
<td>257</td>
</tr>
<tr>
<td>Media Technology Services</td>
<td>46</td>
</tr>
<tr>
<td>Minor</td>
<td>317</td>
</tr>
<tr>
<td>Mission Statement, UW-Platteville</td>
<td>6</td>
</tr>
<tr>
<td>Molecular/Genetics</td>
<td>74</td>
</tr>
<tr>
<td>Multicultural Educational Resource</td>
<td>48</td>
</tr>
<tr>
<td>Center</td>
<td>48</td>
</tr>
<tr>
<td>Music</td>
<td>146</td>
</tr>
<tr>
<td>Music and Business</td>
<td>148</td>
</tr>
<tr>
<td>Music Applied Courses</td>
<td>261</td>
</tr>
<tr>
<td>Music Courses</td>
<td>261</td>
</tr>
<tr>
<td>National Student Exchange Program</td>
<td>42</td>
</tr>
<tr>
<td>Natural Science</td>
<td>103</td>
</tr>
<tr>
<td>Nohr Gallery</td>
<td>52</td>
</tr>
<tr>
<td>Nontraditional Students</td>
<td>8</td>
</tr>
<tr>
<td>Occupational Safety Management</td>
<td>91</td>
</tr>
<tr>
<td>Operations and Services</td>
<td>51</td>
</tr>
<tr>
<td>Orientation, New Student</td>
<td>5</td>
</tr>
<tr>
<td>Ornamental Horticulture</td>
<td>63</td>
</tr>
<tr>
<td>Pass-Fail System</td>
<td>18</td>
</tr>
<tr>
<td>Patricia A. Doyle Women's Center</td>
<td>48</td>
</tr>
<tr>
<td>Payment Policy</td>
<td>18</td>
</tr>
<tr>
<td>Performing and Visual Arts</td>
<td>143</td>
</tr>
<tr>
<td>Performing Arts Facilities and Services</td>
<td>51</td>
</tr>
<tr>
<td>Performing Arts Series</td>
<td>52</td>
</tr>
<tr>
<td>Philosophy</td>
<td>141</td>
</tr>
<tr>
<td>Philosophy Courses</td>
<td>267</td>
</tr>
<tr>
<td>Physical Education Courses</td>
<td>269</td>
</tr>
<tr>
<td>Physical Education, Health</td>
<td>180</td>
</tr>
<tr>
<td>Physical Science Courses</td>
<td>269</td>
</tr>
<tr>
<td>Physics</td>
<td>99</td>
</tr>
<tr>
<td>Physics Courses</td>
<td>274</td>
</tr>
<tr>
<td>Piano</td>
<td>148</td>
</tr>
<tr>
<td>Pioneer Activity Center</td>
<td>48</td>
</tr>
<tr>
<td>Pioneer Involvement Center</td>
<td>52</td>
</tr>
<tr>
<td>Pioneer Passport</td>
<td>317</td>
</tr>
<tr>
<td>Pioneer Student Center</td>
<td>51</td>
</tr>
<tr>
<td>Plant Breeding and Genetics</td>
<td>68</td>
</tr>
<tr>
<td>Plastics Processing Technology</td>
<td>93</td>
</tr>
<tr>
<td>Platteville Community</td>
<td>7</td>
</tr>
<tr>
<td>Political Science</td>
<td>165</td>
</tr>
<tr>
<td>Political Science Courses</td>
<td>275</td>
</tr>
<tr>
<td>Power and Energy</td>
<td>114</td>
</tr>
<tr>
<td>Practicum</td>
<td>317</td>
</tr>
<tr>
<td>Pre-Chiropractic</td>
<td>39</td>
</tr>
<tr>
<td>Pre-Cytotechnology</td>
<td>39</td>
</tr>
<tr>
<td>Pre-Dentistry</td>
<td>40</td>
</tr>
<tr>
<td>Pre-Law</td>
<td>40</td>
</tr>
<tr>
<td>Pre-Medical Technology</td>
<td>40</td>
</tr>
<tr>
<td>Pre-Medicine</td>
<td>40</td>
</tr>
<tr>
<td>Pre-Ministry</td>
<td>40</td>
</tr>
<tr>
<td>Pre-Nursing</td>
<td>40</td>
</tr>
<tr>
<td>Pre-Occupational Therapy</td>
<td>41</td>
</tr>
<tr>
<td>Pre-Optometry</td>
<td>41</td>
</tr>
<tr>
<td>Pre-Osteopathy</td>
<td>41</td>
</tr>
<tr>
<td>Pre-Pharmacy</td>
<td>41</td>
</tr>
<tr>
<td>Pre-Physical Therapy</td>
<td>41</td>
</tr>
<tr>
<td>Pre-Physicians Assistant</td>
<td>41</td>
</tr>
<tr>
<td>Pre-Podiatry</td>
<td>41</td>
</tr>
<tr>
<td>Pre-Professional Programs</td>
<td>39</td>
</tr>
<tr>
<td>Prerequisite</td>
<td>317</td>
</tr>
<tr>
<td>Pre-Veterinary Medicine</td>
<td>42</td>
</tr>
<tr>
<td>Probation, Academic</td>
<td>22</td>
</tr>
<tr>
<td>Production</td>
<td>123</td>
</tr>
<tr>
<td>Production and Manufacturing Management</td>
<td>93</td>
</tr>
<tr>
<td>Professional Landscape Management</td>
<td>64</td>
</tr>
<tr>
<td>Professional Writing</td>
<td>135</td>
</tr>
<tr>
<td>Programming and Special Events</td>
<td>51</td>
</tr>
<tr>
<td>Psychology</td>
<td>153</td>
</tr>
</tbody>
</table>