MAJORS AND MINORS OFFERED AT UWP

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.

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To Prospective Students

Welcome to the University of Wisconsin-Platteville! The contents of this catalog describe programs and courses offered by UW-Platteville. The contents include information related to course offerings, tuition and fees, financial aid, scholarships, housing and much more.

You may obtain the standard UW System Application for Admission form from your high school counselor (if you attend a Wisconsin high school). You may also contact the UW System HELP office by calling 1-800-442-6459, or you may contact the UW-Platteville Office of Admission and Enrollment Services. We strongly encourage you to apply electronically. Please see the UW-Platteville home page at http://www.uwplatt.edu/admission/apply.html for specific instructions. In the catalog’s Admission section, you will find more detailed information about admission categories, dates and requirements.

Campus Visits and New Student Orientation

Visiting campus is the best way to experience UWP 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 weekdays throughout the school year and Mondays, Tuesdays and Wednesdays throughout the summer. Our visit program provides you with an opportunity to talk with staff from Prospective Student Services, learn more about UWP and take a campus tour. Let us know what academic area you are interested in and if you are planning to be involved in athletics and/or any student organizations and clubs, and we can personalize a visit just for you! Pioneer Preview Open Houses are our eight scheduled group visits and offer a wide range of activities for students and families, including a student services fair, campus tour, lunch and a faculty meeting.

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 entering 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. Your catalog should be kept readily available throughout your academic career. The contents of the catalog can also be found on the UWP 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

The University of Wisconsin-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
- National Council for the Accreditation of Teacher Education
- National Association for the Education 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
- Association of State Colleges and Universities
- College Entrance Exam Board
- Council for 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
UW-Platteville is one of 13 publicly supported comprehensive universities in the University of Wisconsin System. Founded in 1866, UW-Platteville (UWP) is the oldest public institution in the State of Wisconsin, and is considered one of the safest campuses in the nation. We are proud of our students’ contribution to the safety record, their pursuit of academic excellence and the leadership they continually demonstrate throughout the state, region and nation. As our nickname implies, our UWP “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 World Wide Web home page at http://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. Approximate undergraduate enrollment for Fall of 2007 was approximately 7,000 students, nearly half of whom live on campus. 99 percent of whom are undergraduate, and just over 90 percent of whom are Wisconsin residents. Students actively participate in the governance process at UW-Platteville, and participate in the more than 170 student organizations. All students also receive a computer account with full electronic mail capability and free unlimited World Wide Web access. They may access this account in any lab, by dialing in with a modem or through a residence hall ResNet connection.

Safety and Health Policy

The University of Wisconsin 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

UW-Platteville is a modern, 820-acre campus with classrooms and laboratories furnished with state-of-the-art equipment and computers. The university operates over 60 Linux, VAX, Alpha, Windows and Netware servers in its core system to handle electronic mail, Wide Area Network (WAN) and Internet access, student and academic accounts, and administrative computing needs.
The recently expanded Williams Fieldhouse is equipped with a 200-meter track, four basketball courts, six volleyball courts, four doubles and two singles tennis courts, four racquetball courts and 12 badminton courts. A 4,300 square foot strength facility includes free weights, universal machines, aerobic training bikes and stair masters. The Fieldhouse is also home to Pioneer athletic competitions.

Pioneer Farm is a 430-acre systems research and education farm. New facilities include the Agriculture Technology Center, the Living and Learning Center, the Swine Center and the Dairy Center. Additionally, a new greenhouse lab/classroom facility was recently added to the campus. Pioneer Farm is located six miles southwest of campus and features dairy, swine and beef herds. There UWP offers students a variety of learning and work opportunities. As a key component of the Wisconsin Agricultural Stewardship Initiative, Pioneer Farm is engaged in measuring the real environment and economic impacts of different farming practices and in providing opportunities for youth, students, farmers and other citizens to learn about these impacts.

Students manage and operate the television and radio stations on campus, providing programming for on-campus students and local communities. The facilities are among the finest in the state. The Center for the Arts includes a 565-seat concert hall with excellent acoustics, a 210-flexible seat theater, rehearsal halls, faculty studios and numerous practice rooms. The center is also home of the award-winning Student Activities Board Performing Arts Series and the Heartland Festival.

The new technologically integrated Pioneer Student Center was opened in April 2002. This state of the art structure provides the student population with expanded food services, meeting rooms and study areas. The Pioneer Student Center is nestled between the Karrmann Library, the Williams Fieldhouse, Boebel Hall and Ottensman Hall.

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

The Platteville Community

The Greater Platteville area, with a population approximating 25,000 people, is located in scenic southwestern Wisconsin. Platteville and its supporting communities are located 70 miles southwest of Madison, 150 miles west of Milwaukee and 25 miles northeast of Dubuque, Iowa.

The city and the university join together to offer local residents events and activities such as the Heartland Festival, Homecoming, The Annual Pow Wow and the lighting of the “M.” More information about these events can be found on UWP’s home page (http://www.uwplatt.edu/). Information about places to stay in Platteville can be found on Platteville’s home page (http://www.platteville.com) or by calling the Chamber of Commerce at (608) 348-8888.

History

The University of Wisconsin-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, and held classes in the former 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. Classes of civil and mining engineering subjects were added to the school’s curriculum, and its name was changed to the Wisconsin Mining School.

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. The ceremony is held in the fall during homecoming weekend and in the spring after the engineering students’ annual “Miner’s Ball.”

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.

During the 1960s, the college experienced a period of rapid growth resulting in the construction of several new halls. In 1966, its name was changed again to the Wisconsin State University-Platteville. The university also has roots in other public institutions of higher education in Wisconsin merged in 1971 to form the University of Wisconsin 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 small beginning in 1839, the university has grown tremendously. Current enrollment is approximately 7,000, making UW-Platteville large enough to provide diversity, yet small enough to assure its students that they are more than just numbers on a computer printout.

The University Seal and School Colors

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

The school colors represent the two academic disciplines which were the foundation of our university: orange symbolizes engineering, and blue symbolizes education.
To All Applicants

This section provides general admission information for degree-seeking students. If you are interested in professional development courses, or courses for personal enjoyment, you are directed to the Continuing Education section.

If you intend to earn a degree, you must apply for admission to the university. If you attend a Wisconsin high school, you may obtain the standard UW System Application for Admission form from your high school counselor. You may also obtain an application by calling the UW System HELP office at 1-800-442-6459. We strongly encourage you to apply electronically; please see the UW-Platteville home page at http://www.uwplatt.edu/admission/apply.html for specific instructions.

Applications for the following fall semester are accepted on September 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 deposit is refundable until May 1. There is a January 1 priority application date, so early application is encouraged. Also, we cannot process your application until your application fee is received. If you know what field of study you intend to pursue, we ask that you indicate that choice on the application. If you are still deciding, we request that you indicate that as a choice. For example, if you think you may wish to be a teacher but do not know at which level or discipline, you may indicate that you are still deciding and are interested in being a teacher. 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 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 assisting you in any way possible. If you wish to study at an institution closer to your home but wish to transfer eventually to UW-Platteville, all you have to do is contact our office for specific information regarding the transfer process.

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. Find the category that applies to you, and then find the subsection which discusses that category for information on what you will need 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.

Non-traditional Students:

Students who are defined in the Board of Regents Policy (87-8) Non-Traditional Admission will be considered according to the criteria under the University of Wisconsin-Platteville’s Exceptional 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 Admission and Enrollment Services. 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 Director of Admission and Enrollment Services 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 course work. 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.
- All 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 (YOP) must apply through both their high school and UW-Platteville for permission to enroll. (Contact your 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)
  • 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
• Top 50 percent of graduating class or ACT composite of 22 (1030 SAT). 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 (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.
• Top 65 percent of their graduating class and have an ACT composite score of 18 (870 SAT) or higher.
• T op 65 percent of their graduating class and have an ACT composite score of 18 (870 SAT). 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 who are historically under-represented.
Students denied or not meeting the admission guidelines may contact the Director of Admission and Enrollment Services for an independent review of all credentials.

Home-Schooled Student Admission Procedures
To be considered for admission, home school students must provide the following:
• Official transcripts from school(s) attended
• Transcript from courses taken at home and grades, signed by the parent providing the education verifying the curriculum
• Official ACT/SAT score reports
• Other information related to the student’s education

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

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 your high school 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. You are required to provide the Office of Admission and Enrollment Services with a statement of your activities (work, armed services, etc.) for the period of time you 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 (CGPA) 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.

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

TRANSFER POLICIES
Student Eligibility
All transfer students may be admitted if they have a cumulative grade point average (CGPA) 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.
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.

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 MATC (Madison) 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 satisfied 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 MATC (Milwaukee) 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 (NICC) with an earned Associate of Arts or an Associate of Science degree granted on or after December 3, 2003, will have met all university general education requirements with the EXCEPTION of the Ethnic and Gender Studies requirement.

If all of the course work 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 your credits will occur only after your 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 GPA of all schools attended will be calculated by using all courses completed that are transferable to UW-Platteville. Admission will be determined based on your cumulative GPA meeting the minimum admission requirements and on the Enrollment Services policies at the time your file becomes complete.

**Credit Evaluation**

Once you have been admitted and the enrollment deposit paid (the enrollment deposit will be applied to your tuition costs for your first term), a credit evaluation of general education requirements will be completed and mailed to both you and the college of your major so that it is available for review by your assigned advisor. Your advisor or department chair will determine which courses may be taken in transfer to meet the requirements of your declared major. In the event that you have not declared a major, the advisor for “deciding” students will assist you in determining your 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 your major will assign a faculty member to serve as your advisor. Your advisor will have a copy of both your transcript and credit evaluation and will be a resource person for you to plan the courses you will need in order to graduate. In addition, you 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 YOU to take the responsibility for building your 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 the regular registration takes place immediately preceding the first week of classes each semester. Details will be sent to you. 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 Wisconsin Technical College Institutions**

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 your 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 University of Wisconsin 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 College students participating in the Guaranteed Transfer Program must also meet the same criteria (e.g. GPA, 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 GPA 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**

Approximately one percent of the students at UW-Platteville are from countries other than the United States. In admitting international students, the Admission Office considers factors such as scholastic achievement, ability to use the English language and evidence of sound financial backing through parents or governmental agencies. All international students must submit official scores from the Test of English as a Foreign Language (TOEFL) to the Office of Admission and Enrollment Services. Final applications for the fall semester must be completed no later than May 1; spring semester applications must be completed no later than September 15.

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

- International student application
- Non-refundable application fee
- Official original or certified secondary school records, school leaving records and mark sheets when available
- Official TOEFL scores (500 minimum score)
- Affidavit of financial support from parents, sponsors or governmental agencies

All records will be translated into English and must be certified as taken from the original documentation. Altered documentation will be considered a perjury and shall cause us to reject the application.

**Transfer Credits**

Students who wish to have credits evaluated for transfer to UW-Platteville from another university outside of the U.S. must contact Educational Credential Evaluators, Inc. (www.ece.org). UW-Platteville requires a iCatalog Matchi evaluation. This evaluation is completed at the student’s request and at the student’s expense.

Transfer students from another school in the U.S. must also submit an International Student Transfer Clearance form, which can be found online at http://www.uwplatt.edu/intprog/international/files/transferClearance.pdf.

**Tri-State Initiative**

The Tri-State Initiative (TSI) is part of a regional workforce initiative to increase the number of students from the neighboring states of Illinois and Iowa attending and graduating from UW-Platteville. TSI will assist new and continuing Wisconsin businesses in addressing critical workforce needs.

The Initiative will have a transforming effect on the campus and the community. TSI is designed to increase enrollment by 2,000 new undergraduate students in 10 years. 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 will stay at UWP, paying for increased faculty and staff, program development and academic buildings.

Learn more about the Tri-State Initiative by visiting http://www.uwplatt.edu/admission/tristate.
## Credits by Examination or Review

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

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

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

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

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### College Level Examination Programs (CLEP)

The CLEP subject examinations and scores necessary for credit are listed below. More detailed information on individual tests may be obtained from the ACES office (608) 342-1033.

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>ACE</th>
<th>CRS</th>
<th>UWP#</th>
<th>UWP COURSE NAME</th>
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<td>Special Topics: Literature</td>
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<td>Composition, Freshman College</td>
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<td>English Lit: Beg thru Commonwealth</td>
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<td>English Lit: Rest thru Romantic Age</td>
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<td>Introduction to American Government</td>
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<td>Hist of US I: Early Colonizations to 1877</td>
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<tr>
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<td>50</td>
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<td>World Civilization II</td>
<td>3</td>
</tr>
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</table>
**Departmental Test-Outs and Waivers**

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

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

1. Only students enrolled in 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 which 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. Additional information is available from the Veterans Affairs coordinator in the Registrar’s Office.
This section provides an overview of UWP registration policies. More details and specific dates for registration and fee payment are available. Specific courses offered each term are available in the online class offerings. Students not on campus may view the list of upcoming course offerings on the Registrar’s home page (http://www.uwplatt.edu/registrar/).

Advance Registration and Orientation for New Freshmen

Registration for new freshmen takes place on the UW-Platteville campus during the summer. Parents are strongly encouraged to become involved also. Because we recognize that the usual procedure of placing a new student into a hectic fall registration can be unsettling and a bit bewildering, we offer our freshmen a slower-paced summer registration.

We at UW-Platteville want you to be successful as a student. For this very basic reason, we have established a special registration program for you and your parents. Each registration session is specifically designed to provide you with a solid foundation concerning the needs of students and parents. Remember, the more you know, the better chance of success you will have in making a smooth transition from your current setting to student life at UW-Platteville. The bottom line is that we want you and your parents to take full advantage of these registration events.

We strongly encourage incoming freshmen to take part in the new student orientations which take place every semester just before the beginning of classes. These special activities provide all new students with an opportunity to become acquainted with the 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 which 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 this information at http://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 (PIN).

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 (http://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 scholarships and financial aid, students must remain classified full-time.

Students in good standing except those with less than a 2.00 GPA, 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 GPA</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>3.25-3.74</td>
<td>20</td>
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<tr>
<td>3.75-4.00</td>
<td>22</td>
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</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

When students repeat courses, only the most recent grade is counted in calculating the grade point average. A course that has a number change needs a repeat card submitted to the Registrar’s Office. Co-ops, internships and independent study courses need a repeat card. Courses coded as repeatable in the online catalog also need a repeat card filed with the Registrar’s Office.

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: http://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 University of Wisconsin 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 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 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 Installment Credit Agreement form must be on file in the Cashier’s Office. A new Installment Credit Agreement 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 1 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 Installment Credit Agreement, a copy of which is included with the initial billing. Registration for future semesters will not be permitted unless the account balance is zero. Accounts in default will be forwarded for private collection action. 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 your 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 ID 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 ID 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 insufficient funds (NSF).
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 UWP 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 WTCS (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 University 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. In reality, the additional tuition will be charged to very few students.

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 second week 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 608-342-1845.

If a student receives any type of federal financial aid (including Stafford loans and/or PLUS loans) and they withdraw from the university or reduce their credit load, their financial aid eligibility will be re-calculated and a percentage of the aid may be considered unearned and may have to be returned to the funding source. Please contact the Financial Aid Office at 608-342-1836 if you have any questions about this policy.

For any other billing questions, visit the Cashier’s Office website (http://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 at the drop-add session at the start of each semester without the instructor’s signature.

Students who drop a course during the period from after the tenth instructional day of the term through the end of the eighth week of that term will be charged a drop fee.

- A $10 fee for dropping each one credit class will be charged.
- A $15 fee for dropping each two credit or more class will be charged.
- Students must pay the drop fees before the course is actually dropped.

If a student registered in a course withdraws from that course in the first two weeks of class in that semester, that course shall not appear on the student’s grade printout for that semester and hence will not be recorded on the student’s transcript.

If a student registered in a course withdraws from that course any time after the second week of class, a notation of withdrawn will appear on the student’s grade printout and hence on the student’s transcript.
Students may withdraw from the university or drop a course until the first day of final exams for the current semester. Students withdrawing at a later date are given the grade F in all courses; only in extraordinary circumstances and with the consent of the instructor and the dean of the college may students withdraw at a later date and receive a grade other than F. 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 unit 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; and
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.

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

Class Attendance
At UW-Platteville we take the question of class attendance very seriously, for education in our view 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 the 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 your Campus Directory.

If your absence is medical related and you have been receiving treatment from the Student Health Services, they may be able to be of assistance to you. They can 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 (GPA) is determined by dividing the total number of grade points earned by the total number of credits attempted at UW-Platteville.

Sometimes it is appropriate, because of student illness or other unusual circumstances, to give a grade of Incomplete (I). After a student receives an Incomplete (I), it is the student’s responsibility to complete all work and assignments necessary to complete the class requirements prior to the ninth week of the ensuing semester. Unless a grade of Incomplete is changed to some other grade before the end of the ninth week of the ensuing semester, the Incomplete is changed to an “F.”

Grading mistakes should be rectified before the end of the ninth week of the ensuing semester. It is the student’s responsibility to call the instructor’s attention to any error in grading as soon as possible after grades are reported. It is the instructor’s responsibility to correct grading errors.

The cumulative grade point average does not include credits and grade points earned at other colleges or universities. When students repeat courses, only the most recent grade is counted in figuring the grade point average. Students repeating courses must secure a Repeat Card at the time of registration.

Failing grades and deficiencies in grade point averages may be removed only by taking work in residence at UW-Platteville.

Scholastic Honors
The word “honors” has two different meanings at UW-Platteville. On the one hand, it refers to scholastic honors, which is the recognition given by the university to students who have achieved high grade point averages. On the other hand, it refers to a specific honors program open only to outstanding students. This section discusses general scholastic honors only; the honors program is discussed under “Special Academic Programs”.

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 GPA
- Dean’s Honors, by college:  
  - Business, Industry, Life Science, and Agriculture: 3.75 GPA  
  - Engineering, Mathematics, and Science: 3.50 GPA  
  - Liberal Arts and Education: 3.75 GPA
At commencement, students who have earned 48 or more credits at UW-Platteville and have earned high cumulative grade point averages during their undergraduate years, graduate in two categories: honors (3.50-3.74), and high honors (3.75-4.00) with the designations of magna cum laude (honors) and summa cum laude (high honors).

Declaring/Changing Majors

Declaring a Major

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

Changing Majors

Students wishing to change majors and/or colleges should contact the Registrar’s Office for complete instructions and a change of major form. Upon changing majors, students will be assigned a new academic advisor and encouraged to request a major checklist 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 transfer 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 career.

4. In order to graduate after electing this option, a student must complete at least 32 credits and earn a 2.00 grade point average.

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

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

Double Majors

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

No more than one diploma or degree will be granted to the same student at one commencement. In the event that a student has completed the requirements for two different degrees, such as a B.A. and a B.S., the student will be required to declare one major as the degree major in order to determine which degree will be awarded.

Transcripts

Official transcripts of a student’s record may be obtained by written request to the registrar. There is a $5 fee per transcript requested. Requests for information concerning activities and scholastic records of students or former students of UW-Platteville will not be released without authorization by the person whose record is involved. Exceptions are made only as prescribed in the Family Educational Rights and Privacy Act-1974.

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.

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.

The minimum acceptable standards for retention are as follows:

1. First semester students (new freshmen only)
   • Grade point average (GPA) less than 1.60: First Probation
   • GPA less than 0.75: Dismissal

2. Second semester students
   • Cumulative GPA less than 1.80: First Probation if in good standing the previous semester;
   • Final Probation - if on first probation the previous semester
   • Semester GPA less than 1.00: Dismissal

3. Third semester students
   • Cumulative GPA 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 GPA less than 1.00: Dismissal
4. Fourth (and up) semester students
   • Cumulative GPA 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 GPA 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.

The Veterans Administration (VA) 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 0.74 or lower at the end of the semester.
2. Any other student earning a semester grade point average of 0.99 or lower at the end of a semester.
3. Second semester freshmen and first semester sophomores on final probation who earn cumulative grade point averages of 1.79 or lower 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.

** The Veterans Administration (VA) 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.

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**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 dean of admission and enrollment management, 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, department chairperson or 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 handles matters involving students’ rights and responsibilities. The assistant chancellor’s responsibility regarding discipline is twofold: 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 http://www.uwplatt.edu, clicking on campus resources A-Z, select letter “P”, then select “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 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.

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Withdrawal from the University

Any student considering withdrawal from the university is 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 the 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 withdrawal may be received by contacting the Registrar’s Office.

Requirements for the Associate’s Degree

Students may apply for and be granted an Associate’s 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 UWP.

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 course work, 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.

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 course work 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.

Commencements are held twice each year - at the end of the fall and spring semesters. All course work (including co-ops, internships and student teaching) must be completed before a degree will be awarded, and attendance at a Commencement ceremony is 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.
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 (FAFSA). This application is available at high school counselor offices, at the UW-Platteville Office of Financial Aid, or students can apply on-line at http://www.fafsa.ed.gov.

Students should complete the application and mail it to the federal processing center by March 15. (This is the 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
- Academic Competitiveness Grant
- SMART Grant
- 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 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 repayment begins within 60 days of disbursement)*

**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

Students must maintain satisfactory academic progress to continue to receive financial assistance. A minimum number of credits must be completed in relationship to the number of full-time semesters attended. Number of credits required per semester is as follows:

**Undergraduate**

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**Graduate**

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**University Refund Policy**

For students who withdraw from the university the following refund policy is applied for tuition and fees:

- 100% 1st week of classes
- 100% 2nd week of classes
- 50% 3rd week of classes
- 50% 4th 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 pro-rata basis.

**Return of Unearned Financial Aid**

If you withdraw from the University prior to completing 60% of the semester and had received financial aid (grants and/or student loans) you may have to return a portion of your federal financial aid. The amount of aid you may keep when you withdraw is in direct proportion to the length of time you remained enrolled during the semester.

**Unofficial Withdrawal**

Students who received federal financial aid and receive all F’s for non-attendance are considered unofficially withdrawn for the semester. The Financial Aid Office 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% of the semester.
Scholarships

Each year the UW-Platteville Scholarship Program awards over $450,000 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, an autobiographical essay and a letter of recommendation. 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 programs: 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 November 15 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 mid January. 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 February 15 for the scholarships to be awarded for the next academic year. A listing of scholarships can be viewed on the Financial Aid webpage.

Other Scholarships

Information regarding other scholarships resources, not related to the UW-Platteville Foundation, is available in the Financial Aid Office. Applications for these national, regional or major-specific scholarships are usually available.
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; and
- 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 the University of Wisconsin-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 CLEP (College Level Examination Program) or AP (Advanced Placement) testing. Entering students who do not meet minimum standards on the UW System English and Mathematics Placement Tests may be required to take remedial courses in these areas, and such courses will not count toward general education or graduation requirements.

English Composition

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; and
- 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; and
- 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; and
- 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.
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 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, 2250 or 3250</td>
<td>2</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) 1100 to 1450</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language***</td>
<td>0-8</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 perspectives.

C. Social Sciences (SS) (9 credits)
Courses must be from areas of agriculture, communication, criminal justice, economics, ethnic studies, geography, political science, psychology, sociology, speech or women’s studies.

D. Natural Sciences (NS) (9 credits)
Courses must be from areas of biology, chemistry, geosciences, physics or 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>Area</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 eighteen 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 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 3 credit course counting for both ethnic and gender studies (EGS) or take 6 credits; one 3 credit course counting for ethnic studies (E) and one 3 credit course counting for gender studies (G).
3. No more then 6 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.
COMPETENCY REQUIREMENTS

A. 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 1130</td>
<td>Freshman Composition</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 1230</td>
<td>Freshman Composition</td>
<td>3 credits</td>
</tr>
</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 Humanities Department.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 1040</td>
<td>Elementary French</td>
<td>4 credits</td>
</tr>
<tr>
<td>FRENCH 1140</td>
<td>Elementary French</td>
<td>4 credits</td>
</tr>
<tr>
<td>GERMAN 1240</td>
<td>Elementary German</td>
<td>4 credits</td>
</tr>
<tr>
<td>GERMAN 1340</td>
<td>Elementary German</td>
<td>4 credits</td>
</tr>
<tr>
<td>SPANISH 1840</td>
<td>Elementary Spanish</td>
<td>4 credits</td>
</tr>
<tr>
<td>SPANISH 1940</td>
<td>Elementary Spanish</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

Speech (2 credits)

Students must take or test out of one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPEECH 1010</td>
<td>Public Speaking</td>
<td>2 credits</td>
</tr>
<tr>
<td>SPEECH 1250</td>
<td>Professional Speaking</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPEECH 2010</td>
<td>Speech Communication for Teachers</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPEECH 2250</td>
<td>Communication/Leadership in Small Groups</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPEECH 3250</td>
<td>Interpersonal Communication (SS)</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 Mathematics Department for details concerning test-out credit. Students may select from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1630</td>
<td>Finite Mathematics with Applications</td>
<td>3 credits</td>
</tr>
<tr>
<td>MATH 1730</td>
<td>Mathematics of Finance</td>
<td>3 credits</td>
</tr>
<tr>
<td>MATH 1830</td>
<td>Elementary Statistics</td>
<td>3 credits</td>
</tr>
<tr>
<td>MATH 2030</td>
<td>Mathematics for Educators II</td>
<td>3 credits</td>
</tr>
<tr>
<td>(For Elementary Education majors only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 2450</td>
<td>Precalculus</td>
<td>5 credits</td>
</tr>
<tr>
<td>MATH 2530</td>
<td>Trigonometry and Analytic Geometry</td>
<td>3 credits</td>
</tr>
<tr>
<td>MATH 2630</td>
<td>Calculus with Applications</td>
<td>3 credits</td>
</tr>
<tr>
<td>MATH 2640</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 1000</td>
<td>Fitness Assessment/Management</td>
<td>1 credit</td>
</tr>
<tr>
<td>WOMSTD 2430</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 1820</td>
<td>Marching Pioneers</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1020</td>
<td>Criminal Justice Fitness</td>
<td>2 credits</td>
</tr>
<tr>
<td>PHYSED 1040</td>
<td>Canoe, Kayak and/or Rafting</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1100</td>
<td>Seasonal Activities</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1110</td>
<td>Weight Training</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1120</td>
<td>Aerobic Weight Training</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1130</td>
<td>Badminton</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1140</td>
<td>Basketball</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1150</td>
<td>Cycling</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1190</td>
<td>Golf</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1200</td>
<td>Self Defense</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1210</td>
<td>Golf</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1220</td>
<td>Hydroaerobics</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1230</td>
<td>Jogging/Walking</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1240</td>
<td>Racquetball</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1250</td>
<td>Relaxation</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1280</td>
<td>Personal Conditioning</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1290</td>
<td>Racquetball/Badminton</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1300</td>
<td>Personal Fitness</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1310</td>
<td>Scuba Diving</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1320</td>
<td>Advanced Scuba Diving</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1330</td>
<td>Cross Country Skiing</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1340</td>
<td>Soccer</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1350</td>
<td>Archery</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1360</td>
<td>Canoeing</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHYSED 1370</td>
<td>Dance Tech/Practice</td>
<td>1 credit</td>
</tr>
<tr>
<td>(Ballroom, Latin, Country)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYSED 1380</td>
<td>Triathlon Training</td>
<td>1 credit</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>PHYSED 1400</td>
<td>Fitness/Activity</td>
<td>1</td>
</tr>
<tr>
<td>PHYSED 1410</td>
<td>Swimming</td>
<td>1</td>
</tr>
<tr>
<td>PHYSED 1430</td>
<td>Tennis</td>
<td>1</td>
</tr>
<tr>
<td>PHYSED 1440</td>
<td>Volleyball</td>
<td>1</td>
</tr>
<tr>
<td>PHYSED 1450</td>
<td>Wallyball/Volleyball</td>
<td>1</td>
</tr>
<tr>
<td>PHYSED 1460</td>
<td>Yoga/Pilates</td>
<td>1</td>
</tr>
<tr>
<td>PHYSED 1530</td>
<td>Bowling</td>
<td>1</td>
</tr>
<tr>
<td>PHYSED 1640</td>
<td>Downhill Skiing</td>
<td>1</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 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>
</tr>
</thead>
<tbody>
<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 2130</td>
<td>English Lit: Beginnings through Commonwealth</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2230</td>
<td>English Lit: Restoration through Romantic Age</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2250</td>
<td>Introduction to Film (second course only)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2330</td>
<td>English Lit: Victorian Age to Present</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2430</td>
<td>American Lit through the Civil War</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2530</td>
<td>American Lit since the Civil War</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2640</td>
<td>World Literature I (IE)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2650</td>
<td>World Literature II (IE)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2730</td>
<td>Contemporary Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2830</td>
<td>Survey Women Writers (G)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 2930</td>
<td>Minority Women Writers of the U.S. (EGS)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 3130</td>
<td>English Novel through Romantic Movement</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 3230</td>
<td>English Novel &amp; Short Story since Romantic Movement</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 3260</td>
<td>Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 3330</td>
<td>English Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 3410</td>
<td>Chicano Literature (E)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 3430</td>
<td>Development of the American Novel</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 3530</td>
<td>Modern American Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 3630</td>
<td>Mark Twain and American Humor</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 3730</td>
<td>Black Literature in America (E)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 3740</td>
<td>Asian American Literature (E)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 3750</td>
<td>American Literature of Ethnicity and Immigration (E)</td>
<td>3</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>----------</td>
<td>-------------------------------------------------</td>
<td>---------</td>
</tr>
<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 US (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 3140</td>
<td>Drawing VI: Advanced Drawing</td>
<td>2 credits</td>
</tr>
<tr>
<td>ART 3340</td>
<td>Art History III: Modern</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 3530</td>
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<td>Art History IV: Ethnic Art in the U.S. (E)</td>
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<td>World Music Survey</td>
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<td>American Music</td>
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<td>Women and the Arts (G)</td>
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### Historical Perspective (HP) (3 credits)

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

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<td>History of Economic Thought (SS or second course only in HP)</td>
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<td>Race, Gender, &amp; US Labor History (E)</td>
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<td>African-American History: 1619 to 3 credits (Present (E))</td>
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<td>Latin American History (IE)</td>
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<td>American Colonial History</td>
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<td>Civil War and Reconstruction</td>
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<td>Gilded Age &amp; Progressive Era</td>
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<td>French Revolution and Napoleon 1789-1815</td>
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<td>History of Western Science</td>
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<td>Nazi Germany and the Holocaust</td>
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<td>Origins of Western Philosophy</td>
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<td>Philosophy in the Modern World (second course only)</td>
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### Second Course (3 credits)

To complete the final 3 credits in Humanities, Fine Arts and Historical Perspective, a student must select either a second course in the same 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 3 credits must be taken in approved courses in each of two disciplines listed below (Agricultural Industries, Communication, Criminal Justice, Economics, Ethnic Studies, Geography, Political Science, Psychology, Sociology, Speech, and Women’s Studies). The remaining 3 credits must be a second course in one of the two disciplines previously chosen.

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<td>Theories of Media and Culture</td>
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<td>Women and the Law (G)</td>
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<td>Interpretation of Business and Economic Data</td>
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<td>Money and Banking</td>
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<td>World Regional Geography (IE)</td>
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<td>The Judicial Process</td>
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<td>Civil Liberties</td>
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<td>Crime and Delinquency</td>
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<td>Social Research</td>
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D. Natural Sciences (NS) (9 credits)

The credits must be taken in approved courses in two areas (Biology, Chemistry, Geography, Geology, Physics and Physical Science). All courses must involve a laboratory experience.

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<td>Introductory Astronomy</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

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

International Education (IE) (3 credits)

In addition to courses approved for international education, the international education requirement may be satisfied through documented course work 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 3 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 2330</td>
<td>World Population, Food and Resources (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 3530</td>
<td>Art History V: Far Eastern Art (FA)</td>
<td>3 credits</td>
</tr>
<tr>
<td>BIOLOGY 2130</td>
<td>Plants and Society</td>
<td>3 credits</td>
</tr>
<tr>
<td>BUSADMN 1300</td>
<td>Global Business</td>
<td>3 credits</td>
</tr>
<tr>
<td>BUSADMN 3750</td>
<td>International Short Study</td>
<td>1-3 credits</td>
</tr>
<tr>
<td>ECONOMIC 3630</td>
<td>Comparative Economic Systems (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 2640</td>
<td>World Literature I (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 2650</td>
<td>World Literature II (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 3830</td>
<td>The World Novel (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 4500</td>
<td>Women &amp; Myth; Goddess, Witch, Sibyl (HUM, G)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY 1230</td>
<td>Survey of Cultural Geography (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY 1330</td>
<td>World Regional Geography (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY 3030</td>
<td>Economic Geography (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY 3430</td>
<td>Geography of Africa (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY 3530</td>
<td>Topics in Regional</td>
<td>2 or 3 credits</td>
</tr>
<tr>
<td>GEOGRPHY 3630</td>
<td>Geography of Latin America (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY 3730</td>
<td>Geography of Europe (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY 3930</td>
<td>Geography of Asia (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY 3960</td>
<td>Geography of Japan</td>
<td>6 credits</td>
</tr>
<tr>
<td>GEOGRPHY 4230</td>
<td>Political Geography (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 1020</td>
<td>World Civilization II (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3070</td>
<td>Latin American History (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3640</td>
<td>Imperialism in Africa and Asia (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3920</td>
<td>Modern Middle East (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3930</td>
<td>East Asia (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3950</td>
<td>Modern Japan (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3970</td>
<td>Modern China (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 4110</td>
<td>Russia to 1856 (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 4120</td>
<td>Modern Russia (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 2230</td>
<td>Contemporary World Views (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHLSPHY 2930</td>
<td>Major Traditions in Eastern Religions (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI 2430</td>
<td>Comparative Politics (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI 3030</td>
<td>International Relations (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI 3340</td>
<td>Modern Japan (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI 3350</td>
<td>Modern China (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI 3720</td>
<td>Politics of the Global Economy (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>POLISCI 4120</td>
<td>Modern Russia (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>SOCIOLOGY 1130</td>
<td>Introductory Anthropology (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>SOCIOLOGY 2130</td>
<td>Cultural Anthropology (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>SPEECH 2300</td>
<td>Intro to Intercultural Comm</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 4500</td>
<td>Women &amp; 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 3 credit course counting for both ethnic and gender studies or take six credits, one 3 credit course counting for ethnic studies and one 3 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)

Courses that count for BOTH Ethnic and Gender Studies credit (EGS):

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

Courses that count for Ethnic Studies (E) credit:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2730</td>
<td>Art History IV; Ethnic Art in the U.S. (FA)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ART 2750</td>
<td>Native American Art (FA)</td>
<td>3 credits</td>
</tr>
<tr>
<td>CRIMLJUS 2830</td>
<td>Ethnicity, Race, and Crime</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 3410</td>
<td>Chicano Literature (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 3730</td>
<td>Black Literature in America (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 3740</td>
<td>Asian American Literature (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 3750</td>
<td>American Lit of Ethnicity and Immigration (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 3760</td>
<td>Wisconsin Indian Literature (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 2130</td>
<td>The Native American Experience (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ETHNSTDY 2200</td>
<td>Introduction to Ethnic Studies</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

Courses that count for Gender Studies (G) credit:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMLJUS 3730</td>
<td>Women and the Law (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 2830</td>
<td>Survey of Women Writers (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGLISH 4500</td>
<td>Women &amp; Myth: Goddess, Witch, Sibyl (HUM, IE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEOGRPHY 4130</td>
<td>Space, Place and Gender (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3520</td>
<td>American Women's History (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>HISTORY 3700</td>
<td>Women in European Civilization (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>PSYCHLGY 2530</td>
<td>Psychology of Women (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>SOCIOLOGY 2230</td>
<td>Women, Sex Roles and Sociology (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 1130</td>
<td>Introduction to Women's Studies (SS) or (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 2230</td>
<td>Women, Sex Roles and Sociology (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 2430</td>
<td>Women and Health (PE-WELLNESS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 2530</td>
<td>Psychology of Women (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 2730</td>
<td>Women in Science and Engineering (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 2830</td>
<td>Survey of Women Writers (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 3330</td>
<td>Topics in Women's Studies</td>
<td>2-3 credits</td>
</tr>
<tr>
<td>WOMSTD 3430</td>
<td>Women and the Arts (FA)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 3520</td>
<td>American Women's History (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 3530</td>
<td>Philosophy's Feminist Future (HUM)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 3700</td>
<td>Women in European Civilization (HP)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 3730</td>
<td>Women and the Law (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 4130</td>
<td>Space, Place and Gender (SS)</td>
<td>3 credits</td>
</tr>
<tr>
<td>WOMSTD 4710</td>
<td>Women &amp; Myth: Goddess, Witch, Sibyl (HUM, IE)</td>
<td>3 credits</td>
</tr>
</tbody>
</table>
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.

University Honors Program

Director: Dr. Nancy Turner
Office: 332 Warner Hall
Phone: 608-342-1789
E-mail: turnern@uwplatt.edu

The aim of this program is to provide exceptional students with opportunities to study the problems, ideas and methods of the liberal arts with an intensity, depth and perspective that cannot usually be achieved in regular courses.

Since 1991, the Honors Program Council, comprised of faculty members from each college in the university, has been organizing and administering special liberal-education courses for those undergraduates who have demonstrated high academic promise.

Benefits of the Honors Program

By participating in the Honors Program, students gain a number of important benefits:

• intellectual growth produced by working on challenging and extraordinary problems under the close supervision of excellent teachers and in cooperation with some of the best students in the university;
• an increase in academic skills and self-confidence produced by having to meet the high academic standards of honors courses;
• a special “honors” notation on their transcripts for students who complete the honors requirements; and
• fulfillment of many of the university’s general education requirements through completion of certain honors courses.

Admission to the Honors Program

Each May, the Director of the University Honors Program invites qualified members of the incoming freshman class to submit applications for acceptance into the program. To qualify, a student must have a composite ACT score of at least 27, a SAT score of 1250 or higher, have graduated in the top 10 percent of their high school class or a GPA of at least 3.3 after 30 hours of course work at UW-Platteville and/or other accredited institutions of higher education.

The director may waive the formal admission requirements for students who present evidence that their academic record does not reflect their true capacity to benefit from honors work.

Requirements for the Honors Certificate

Honors students may pursue an Honors Certificate at the same time they are pursuing a regular major. The Honors Certificate requires:

• a consistently maintained accumulated GPA of 3.3 or above;
• 24 credits in courses with an “honors” designation taken over eight semesters. These 24 credits may be used to satisfy portions of the general education requirements;
• a one semester senior capstone experience (i.e. an independent study “honors thesis”) consisting of a 20-25 page research paper written under the guidance of a faculty member chosen by the student.

Honors Courses

Every semester, three to six honors courses will be offered with class size in each limited to 20 students (average class size is 14 students). These courses will include general introductory courses such as History of World Civilization, General Psychology or Introduction to American Government. Honors students in any major may take these courses in order to fulfill their general education requirements. Other honors offerings will be upper-level courses such as English Drama, The Native American Experience or Historical Geology, which will also satisfy general education requirements for most students.

Pre-Professional Programs

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

Each student interested in a specific pre-professional program is strongly encouraged to seek the advice of the contact person to ensure appropriate advising.

Pre-Chiropractic

Advisor: Wayne Weber
Office: 249 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 course work.
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.

Fisheries biology is that branch of science that secures field information on the life history and environmental relationships of fish. These studies include both the study of fish in their natural environment and aquaculture.

The UW-Platteville program consists of selected courses which provide a body of knowledge necessary to meet the admission requirements for schools offering degrees in fisheries biology (a minimum of two years of course work at UW-Platteville is required); a summer school session at the Pigeon Lake Field Station is also recommended.

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.

Pre-Medical Technology

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.

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.
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.

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.

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 which 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.

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.

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.

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 provide 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: 249 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: 255 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 (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.)

Pre-Wildlife Management

Advisor: Jeff Huebschman
Office: 262 Gardner Hall
Phone: 608-342-1742

Wildlife management is a science that secures field information concerning the life history and environmental relationships of game birds and mammals. These studies include investigations in the natural environment and game farms. A program in wildlife management is ecologically integrated and includes courses in forestry, soils, water and general natural resource management.

The UW-Platteville program consists of selected courses which provide a body of knowledge necessary to meet the admission requirements for institutions offering degrees in wildlife management. A minimum of two years of course work is required. Students are encouraged to fulfill a summer school session at the Pigeon Lake Field Station.

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.

Institute for Study Abroad Programs

Contact: Donna Anderson
Office: 111 Royce Hall
Phone: 608-342-1726

This institute was created at UW-Platteville in 1978 to develop and coordinate study abroad programs for the university and to provide resources in southwestern Wisconsin for international studies. The institute provides university students with an opportunity to continue their education while extending their awareness of other lands and peoples through semester, full academic year and summer programs of study abroad. Semester and/or full academic year programs are regularly offered in London, England; Rome, Italy; Nagasaki, Japan; Seville, Spain; Suva, Fiji; Newcastle, Australia; and Wuhan, China. In addition, through consortial arrangements, programs are available in Argentina, Australia, China, Ecuador, France, Germany, Greece, Italy, Morocco, Russia, Scotland, and more.
Summer programs are also available. Financial aid that students receive for their studies at UW-Platteville in most cases transfers directly for use in study abroad programs.

Students wishing to travel independently are invited to draw on the resources of the institute to assist them in any matters pertaining to their travel plans.

**National Student Exchange Program**

**Contact:** Admission and Enrollment Office  
**Office:** 120 Brigham 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 UWP 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, UWP students must have a cumulative grade average of 2.50 or higher, must be a full-time student and must agree to remain a full-time student during the exchange period. Since UWP 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 UWP 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 by calling 608-342-1127 or by stopping into Brigham 120. The application and advising process is highly involved; consequently several months of careful planning before the annual March placement date is strongly suggested.

**Continuing Education**

**Contact:** Marian Maciej-Hiner  
**Office:** 305 Warner  
**Phone:** 608-342-1314

The Office of Continuing Education, in a partnership between the University of Wisconsin-Platteville and University of Wisconsin-Extension, carries out the Wisconsin Idea of extending university resources beyond campus boundaries to the citizens of southwestern Wisconsin. The office coordinates credit classes, which are designed to meet the needs of adults who wish to continue or renew their course work to meet certification requirements. Some class sessions are delivered through a mixed media approach, including interactive video, to enhance access for students living and working at a distance from campus. Community Education/Personal Development (non-credit) workshops, seminars and camps are also conducted by Continuing Education to enrich the lives of adults and young learners in southwestern Wisconsin.

For more information, contact 608-342-1314 or toll-free 1-888-281-9472. Access course offerings electronically via http://www.uwplatt.edu/cont_ed.

**Teacher Recertification**

The Office of Continuing Education coordinates credit classes to meet the needs of educators who want to learn about communicating with special student groups, new teaching strategies, social issues, educational research and technology in a school setting.

Courses taken through the University of Wisconsin-Platteville’s Office of Continuing Education are acceptable for renewal of Wisconsin’s five-year teaching license. More information on this license is available on the DPI website: http://dpi.state.wi.us/dlsis/tel/renewl.html.

**Child Care Administrators Credential**

Continuing Education offers a 6-course, 18-credit series (undergraduate credit or non-credit) to help child care professionals earn the Wisconsin Professional Credential for Child Care Administrators. Course topics include Administration/Supervision, Operations Management, Financial Management and Planning, the External Environment and Best Practices.

**Infant/Toddler Professional Credential**

The University of Wisconsin-Platteville Office of Continuing Education in partnership with The Registry and T.E.A.C.H. is offering the Wisconsin Infant/Toddler Professional Credential for child care providers throughout the state of Wisconsin. Students complete four 3 credit classes for undergraduate credit which include: Infant/Toddler Development, Group Care for Infants and Toddlers, Family and Community Relationships and Infant/Toddler Capstone.

**Living History Education**

Living History classes allow students and community members to directly participate as re-enactors in pre-1848 Wisconsin or the Civil War. Participation in these “period-correct” classes with educators, historians and others brings these historic times to life - in the classroom, community and other settings.

**Independent Learning**

Independent Learning provides you an opportunity to take courses at your convenience. You enroll at any time, complete assignments as your schedule permits, take your exam when you are ready and, most importantly, complete the course you’ve always wanted to take or have needed for your degree. Over 300 university, high school, vocational and continuing education courses are available.

Independent Learning offers print-based courses, many with an e-mail option, through the following UW departments: Business and Economics, Engineering Professional Development, Environmental Resource Center, Professional Development and Applied Studies, Liberal Studies and the Arts and the Office of Education Outreach. We draw talent from resources throughout the entire University of Wisconsin System.

UW Learning Innovations Independent Learning is a part of the University of Wisconsin-Extension. 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, accredited by the North Central Association of Colleges and Schools.
Independent Learning catalogs are available through the Office of Continuing Education, 308 Warner Hall, or you may visit their website at http://www.learn.wisconsin.edu/il or call their toll-free number (800) 442-6460. Independent Learning advisors are available to answer questions regarding course selection, registration, policies and procedures.

WisLine Teleconference Service

WisLine is the easy, fast and affordable way to meet with colleagues without leaving your office or building. The conference call service operated by the University of Wisconsin-Extension has the features and lines to serve your conference call needs.

WisLine offers you 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 your conference

Available to all government, educational and non-profit organizations, WisLine utilizes the state of Wisconsin’s STS system for outgoing calls, so you 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 http://www.uwex.edu/ics/wisline.

Remedial Courses in English and Mathematics

UW-Platteville entered a consortium agreement with the southwestern Wisconsin Technical College at Fennimore, Wisconsin, 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 and Mathematics Placement Tests are expected to take one or both of the above classes prior to their being allowed into an entry level English or mathematics course at UW-Platteville. The courses are non-credit; therefore, they do not count toward the total number of credits needed to satisfy degree requirements at UW-Platteville.

The courses, 10 Fundamentals of English, 10 Elementary Algebra and 15 Intermediate Algebra, are taught by Fennimore faculty.

Students attend the above classes on the Platteville campus as is the case with all other course work.

An entering new student must pass the UW-System English and Mathematics Placement Tests to be allowed into credit level courses in the above subjects. Students who attain low placement test results are required to successfully complete Fundamental English, Elementary Algebra and/or Intermediate Algebra before they are allowed to register for credit level English or mathematics courses. 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 course work may be directed to the Humanities Department (608) 342-1826 or the Mathematics Department (608) 342-1741 at UW-Platteville.

INDIVIDUALLY CONTRACTED MAJOR

Coordinator: Laura Anderson
Office: 213 Warner Hall
Phone: 608-342-1117

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 course work 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 Liberal Arts and Education. 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 the 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

http://www.uwplatt.edu/library

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 of 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 UWP 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 or by telephone 608-342-1668 or e-mail "Ask a Librarian!" of 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 support 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.

INFORMATION TECHNOLOGY

http://www.uwplatt.edu/oit

The Office of Information Technology (OIT) 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.

General Computer Access (GCA) Labs

Located in the 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.

Campus Wide Servers

OIT operates VMS, NetWare, NT and LINUX servers in its core system to handle electronic mail, Local Area Network (LAN), Internet access, student accounts and administrative computing needs.

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 UWP 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, lab problems and so on. 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

http://www.uwplatt.edu/ltc

The Learning Technology Center (LTC), located in the Pioneer Student Center, 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 Karrmann Library, the Office of Information Technology and Television 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/Student Training

The LTC offers training and instruction throughout the year. Training is free and covers a full range of classes, including electronic mail, word processing, spreadsheets, information resources, World Wide Web, course management systems, operating systems and multimedia. 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 Training and Instruction 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.

Computer Training Labs

The LTC has three computer labs available for training: Karrmann B6, the Testing and Assessment Lab in the Pioneer Student Center and the Hempel Collaboratory in the Pioneer Student Center. The labs can be reserved by calling 608-342-1026.

TELEVISION SERVICES

http://www.uwplatt.edu/tvservices

Television 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:

Video and Audio Production

Television Services offers a variety of production services such as lecture taping, video tape editing, mirror learning taping, audio and video tape duplication and audio recording.

Equipment Checkout

The department provides a variety of audiovisual equipment that may be checked out by faculty, staff and students for educational purposes. Equipment includes computer projection systems, digital cameras, video cameras, cassette decks and slide projectors.

Cable Television

Television Services provides cable service to the residence halls and provides maintenance support for the cable system.

Equipment Maintenance

A variety of maintenance services, including equipment repair, equipment recommendations and maintenance of technology enhanced classrooms, are provided by the Television Services staff.

Distance Education

The University has four facilities with the capability to transmit or receive video from a variety of sources using various technologies. For more information concerning these technologies, please call (608) 342-1316 or (608) 342-1628.

Satellite Feeds

Downlinks from C- or KU-band satellites may be recorded onto videotape and/or routed to a conference room on campus.
STUDENT AFFAIRS

Advising and Career Exploration Services (ACES)

Location: 136 Warner  
Phone: 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 (ACES). Undecided (“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.

The ACES office houses a Career Resource Center which holds a variety of materials to assist students with career exploration, including handouts, books, magazines, career-search software and videos. Check out our website at http://www.uwplatt.edu/advising for links to advising and career exploration. For more information, call 608-342-1033 or come by and visit us in 136 Warner Hall or e-mail advising@uwplatt.edu.

Athletics

Location: 134 Williams Fieldhouse  
Phone: 342-1567

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

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

Career Center

Location: Ullsvik Center  
Phone: 342-1183

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

Workshops are scheduled each semester on topics such as resumes/cover letters, interviewing skills, job search and dinner etiquette. Students receive individual, one-on-one assistance with writing resumes and cover letters. Opportunities for fulltime work, internships, co-ops or summer jobs are made available to students through our Fall and Spring Employer Fairs and web based recruiting software.

We invite and encourage all students to utilize our services and visit us at http://www.uwplatt.edu/careercenter.

Center for the Arts

Location: Center for the Arts  
Phone: 342-1298

The Center for the Arts (CFA) provides a professional performing arts environment for the campus and community to experience the arts through classroom learning and quality cultural and performing arts performances.

The Center for the Arts hosts more than 150 fine arts events during the year including music theater, dance, drama, children’s theater productions, orchestra concerts, choral performances, jazz bands, student recitals, the Performing Arts Series and the Heartland Festival.

The facility includes a 565 seat Brodbeck Concert Hall, a 210 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 Center for the Arts for fine art programming. To reserve the facility, contact the Reservations Office at 608-342-1451 or stop by the Pioneer Student Center Administration Office. To request more information, purchase tickets or to have your name added to the Center for the Arts event mailing list, call the CFA at 608-342-1298. More information and policies can be found at http://www.uwplatt.edu/cfa. The CFA is always looking for volunteer ushers. To see a list of shows available, stop by the University Box Office in the lobby of the CFA.

Children’s Center

Phone: 342-1260

The University’s Children’s Center provides excellent child care services and educational experiences for the 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. - 5:00 p.m. during the academic year, interim periods and summer session. Children must be between two and seven years of age to enroll.

Lead teachers who hold a degree in the field of early childhood education staff the 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 as well as nationally accredited program. For further information, visit us at http://www.uwplatt.edu/childrenc.
Counseling Services

Location: 220 Royce
Phone: 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 also maintains an Alcohol and Other Drug Education Program, which offers information, counseling, outreach and referral services related to the use and abuse of alcohol and other drugs.

In addition, standardized tests such as the PPST; GRE; Placement exams for Math, English and Foreign Language, CLEP and MAT are administered through Counseling Services’ Academic Testing Program. Visit us at http://www.uwplatt.edu/counseling.

Dining Services

Location: Glenview Commons
Phone: 342-1778

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 students and for commuter students. In addition, students may add cash to their meal plan for extra purchasing flexibility at all dining locations.

Glenview Commons is the main dining service area on campus and features an “all-you-can-eat” menu with planned, special meals featuring new cuisine items and ethnic foods. Glenview Commons also houses a convenience store where students may purchase snacks and sundry items.

The Pioneer Student Center is home to several dining service areas. Pioneer Crossing features a sub shop, grill, Asian, Mexican, traditional foods along with a full salad and soup bar. Pioneer Perk is home to grab and go and a full coffee bar. And the Pioneer Haus is a pizza and recreation area. For further information, call us or visit us at http://reslife.saf.uwplatt.edu/diningservices.

Greek Life

Location: Pioneer Involvement Center, Pioneer Student Center
Phone: 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.

Greek Life staff is dedicated to assisting in creating a positive living, learning and governing environment for students interested in Greek Life. The focus is 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 our website at http://www.uwplatt.edu/pic.

Student Health Services

Location: 2nd floor, Royce Hall
Phone: 342-1891

The 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 the Student Health Services (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 Student Health Services office. Physicians, nurse practitioners and registered nurses provide care to students. Student Health Services, 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 Student Health Services health history form and provide a record of immunizations. The Student Health Services 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 Student Health Services.

Intramurals

Location: 134 Williams Fieldhouse
Phone: 342-1568

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 http://www.uwplatt.edu/intramurals.
Math/Science Learning Center

**Location:** 156 Gardner  
**Phone:** 342-1948

The Math/Science Learning Center provides tutoring for students enrolled in math courses numbered 2740 and below. In addition, some tutors can assist with problems in chemistry and physics. Semester schedules are posted outside the center and include daytime and evening hours.

Multicultural Educational Resource Center (MERC)

**Location:** 129 Warner  
**Phone:** 342-1555

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 Multicultural Educational Resource Center 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 Multicultural Educational Resource Center facilitates interaction of persons of diverse cultural, ethnic and racial origins with other constituencies of the university community. The Multicultural Educational Resource Center encourages diverse cultural programming by the Campus Programming and Relations (CPR) and provides assistance for student organizations, including ASIA Club, Black Student Union, Hmong Club, 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 http://www.uwplatt.edu/merc.

Harry and Laura Nohr Gallery

**Location:** Ullsvik Center  
**Phone:** 342-1398

Located in the Ullsvik Center, 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 Nohr Gallery Advisory Board Art Committee reviews work and recommends artists working in a variety of media including painting, sculpture, drawing, printmaking and various crafts for exhibition during the academic year.

The gallery is the ideal spot for students to browse during free time. For additional information, visit http://www.uwplatt.edu/arts/nohr.

Performing Arts Series

**Location:** CFA Box Office  
**Phone:** 342-1298

The CPR Performing Arts Series sponsors an annual series of outstanding professional fine arts events from symphony orchestras to musical theater. The performances are chosen and scheduled by a committee of students, faculty and staff. Past performances have included The Russian State Chorus, The Three Irish Tenors, Corky Siegel’s Chamber Blues featuring Randy Sabien and The Lily Cai Chinese Dance Company. For ticket information, contact the Center for the Arts Box Office at 608-342-1298.

Pioneer Activity Center (PAC)

**Location:** 134 Williams Fieldhouse  
**Phone:** 342-1568

The University of Wisconsin-Platteville extends a warm welcome to all potential members of the Pioneer Activity Center (PAC). The PAC allows students, faculty/staff and general public to further their wellness/physical activities at a minimal cost. Membership rates for the year, semester or summer make lifetime conditioning programs available at your convenience. Whether it is walking our 200-meter oval track, swimming in our pool, playing basketball, volleyball, tennis or lifting in our diversified Fitness Center (free weights, Universal, Nautilus, Hammer Strength machines, Stairmaster, treadmills and aerobic Start Trac bicycles), members will find facilities to accommodate all. The opening of the Pioneers Activity Center has enabled the university to double free-time recreation, intramural and instructional opportunities for students. It has also enabled us to offer memberships to the faculty/staff and general public. It is our hope that a PAC membership will be your first step to your continued physical fitness program. For more information on membership costs and facility hours, contact the Pioneer Activity Center director or visit the PAC website at http://www.uwplatt.edu/pac.

Pioneer Involvement Center

**Location:** Pioneer Student Center  
**Phone:** 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 is composed of several functional areas that offer programs, services and resources for students to get involved. Student Organization Development focuses on strengthening student organizations. Co-Curricular Programming strives to provide intentional programs and entertainment that has educational value. 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. New student orientation and first year experience develop opportunities for new students to feel connected to UWP and know how to access resources to succeed. Design Services and Support Service areas assist with promotion of events, and we take pride in connecting you with the correct information or the right resource. Stop by the Pioneer Involvement Center which is located in the Pioneer Student Center or telephone 342-1075. You can also visit the Pioneer Involvement Center website at http://www.uwplatt.edu/pic.
Pioneer Student Center

Phone: Information Desk: 342-1491, Administration: 342-1451

Located at the crossroads of campus in the center of the academic community, the Pioneer Student Center opened on April 1, 2002. More than just a building, the Pioneer Student Center is the community center for the campus of UWP. 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 Pioneer Student Center encourages the convergence of academic and social lives to promote learning that goes beyond the classroom.

Contained within the 96,000 sq. ft. facility are a variety of services and programs designed to enhance the learning environment and strengthen the UWP community. Nearly 200 computer workstations are placed throughout the Pioneer Student Center in a 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. Lounges support data ports and laptop computers can be checked out and used anywhere in the facility.

The Pioneer Crossing, Pioneer Haus and Pioneer Perk offer patrons an array of food and beverage selections to enjoy while attending events, or just relaxing in the Pioneer Student Center. Events in the Pioneer Student Center range from live music to comedians, from leadership conferences and organizational meetings to educational speakers, and from surfing the web to watching the eight foot screen television in the Pioneer Haus. Events are sponsored by the over 170 student organizations supported through the office space, common lounges and accessible technology offered in the Pioneer Student Center. Other student center services include the University Bookstore, Office of Campus Life and the Information Center.

Cultivating enduring loyalty to the campus community, the Pioneer Student Center exhibits the heritage of the UWP campus. The Alumni Lounge is home to the UWP Alumni Wall of Fame, featuring the recipients of the Outstanding Recent Alumni and the Distinguished Alumni awards. From the Alumni Lounge and Heritage Hall, community members can view the Normal School bell, refurbished for the Pioneer Student Center as a commemoration of the rich campus traditions. The University Seal hangs in the windows of Heritage Hall where flags representing the nationalities of every student in attendance at UWP are proudly displayed to celebrate our cultural diversity.

Office of Rental Issues

Location: Pioneer Student Center
Phone: 342-1102

The Office of Rental Issues is a resource created by the University of Wisconsin-Platteville Student Senate and sponsored by the Pioneer Student Center. This office maintains a current list of available housing in Platteville and the immediate area and has up-to-date information on State laws regarding tenant-landlord disputes. The mission of the Office of Rental Issues is to provide services to help students with off-campus housing related concerns. Through Student Senate and the Pioneer Student Center, the Rental Issues Coordinator acts to promote positive relations between UWP students, landlords and the City of Platteville. For further information, visit us at http://reslife.saf.uwplatt.edu/ri and click Rental Issues.

Residence Halls

Location: 1st floor Royce Hall
Phone: 342-1845

Living on campus in one of the nine residence halls will provide you with special opportunities for growth, learning, fun and friendship. Residence hall living is an integral part of the college experience. Sharing a portion of our 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 small community of approximately 240-320 residents, with a total residence hall population of approximately 2,300 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 available 24 hours a day. See http://reslife.saf.uwplatt.edu/resnet for detailed information. A unifying link within the residence hall community is the Residence Hall Council (RHC). 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 a residence hall requirement that derives from a University of Wisconsin Board of Regents’ policy that requires freshmen and sophomore students to live in university residence halls during the academic year unless they qualify for an exception and are officially released by the 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 residency requirement. This residency requirement is stringently enforced, and students must provide the information necessary to confirm their compliance with it. Please direct any questions to the Office of Student Housing. For further information, please call or visit our website at http://reslife.saf.uwplatt.edu/housing. The toll free number is 866-864-7647 and Fax is 608-342-1847.
Services for Students with Disabilities

Location: 114 Warner
Phone: 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.
- Help in becoming integrated into the campus community and in maximizing independence.
- Technical assistance to university departments, assisting in identifying accommodations and providing services and responses on a case by case basis.
- Liaison with the Department of Vocational Rehabilitation (DVR) for coordination of services.

The services are provided to assist students with disabilities in receiving the academic accommodations needed to ensure equal access to the educational environment and to assist students with disabilities in obtaining access to university programs and activities in the most integrated setting appropriate.

To arrange academic accommodations, students with disabilities must request support services/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 Services for Students with Disabilities office reviews disability documentation, verifies that the documentation satisfied disability verification guidelines and implements an intake process with the student to assess the impact of the disability or disorder. At the conclusion of the intake process, students receive a VISA and information about how to implement each of the recommended accommodations. It is then the responsibility of the student to meet with each course instructor to discuss his/her disability and the accommodation recommendations. Students receiving services are expected to engage in appropriate and responsible levels of self-help in obtaining and arranging for accommodations or auxiliary aids. There is no cost to students for assistance provided by Services for Students with Disabilities. Visit us at http://www.uwplatt.edu/disability.

Student Support Services

Location: 105 Warner
Phone: 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.

Student Support Services provides assistance to students who may need extra help or have not had appropriate preparation necessary to succeed in the university. Student Support Services 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/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 http://www.uwplatt.edu/stusuppserv.

Technical and Event Services

Location: Pioneer Student Center
Phone: 342-1230

Technical Services provides professional support for events in the Ullsvik Center, Center for the Arts and Pioneer Student Center as well as ceremonies, major events and university sponsored events held throughout campus. Services and equipment include audio, visual, lighting, sound reinforcement, staging, etc. To arrange for production, support or find out more about equipment availability, contact Technical Services or stop by the Administrative Office of the Pioneer Student Center.
Textbook Center

**Location:** 031 Doudna  
**Phone:** 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.

However, students may purchase their textbooks. Active textbooks 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.

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 http://www.uwplatt.edu/textbookctr.

University Tutoring Services

**Location:** 133 Warner  
**Phone:** 342-1050

University Tutoring Services offers tutoring to the entire student body for a wide variety of courses. There are no conditions necessary to obtain a tutor other than the desire to improve in a specific subject matter. Services are available to any student regardless of skill level or grade point average for a minimal fee. Following the assignment of a tutor, it is the responsibility of the student seeking tutoring to make contact with the designated tutor as soon as possible to arrange the first session. Fees for tutoring services are per hour and billed on a monthly basis to the student receiving services. Students are limited to six hours per week of tutoring.

Tutors are UW-Platteville students who have a GPA of 2.75 or above and who have received either an A or a B or tested out of the course they are tutoring.

Patricia A. Doyle Women's Center

**Location:** 151 Doudna  
**Phone:** 342-1453

The Patricia A. Doyle Women's Center serves as UW-Platteville's central contact for resources and support for women on campus. The Women's Center is committed to creating an environment where women receive equal opportunities and are empowered to utilize their talents and efforts to their fullest extent. Our center provides all students, faculty and staff with resources related to women's issues such as books, magazines, journals and videos. The Center seeks to honor the contributions and experiences of women of all ages, classes, physical conditions, sexual identities, spiritual beliefs and ethnic origins. Programming, fostering connections, providing resources and advocating for equitable situations for women are the Women's Center's main activities. For more information, visit us at http://www.uwplatt.edu/womensctr or e-mail womensctr@uwplatt.edu.

Campus Writing Center

**Location:** 360 Gardner  
**Phone:** 342-1615

The Campus Writing Center, supported by the College of Liberal Arts and Education, 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-to-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 Campus Writing Center also has a small computer lab and reference materials available for student use during hours of operation, currently Monday through Friday 9:00 a.m. to 4:00 p.m. and Tuesday and Wednesday evenings (by appointment only). Appointments are preferred.
How to Use the Following Three Chapters

The following three chapters describe the specific programs and courses offered at the University of Wisconsin-Platteville, divided by college.

Within a particular college, you will find majors listed by department in alphabetical order. (For example, the civil engineering major is listed in the College of Engineering, Mathematics and Science chapter under the “Civil and Environmental Engineering” major.)

After a description of a particular major or a related group of majors, you will find specific course descriptions, listed using the codes below.

<table>
<thead>
<tr>
<th>Course Codes</th>
<th>Sample: GEOGRPHY 3330 3 credits</th>
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<tbody>
<tr>
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<td>Agricultural Sciences</td>
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<td>COMMNCTN</td>
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<td>Criminal Justice</td>
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<td>Mathematics</td>
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<td>Applied Music</td>
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<td>Physical Science</td>
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<td>Physical Education and Health</td>
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<td>Physics</td>
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<td>Political Science</td>
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<td>Reclamation</td>
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<td>Software Engineering</td>
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<td>Teaching</td>
<td>TEACHING</td>
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<td>Theater</td>
<td>THEATER</td>
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<tr>
<td>Women's Studies</td>
<td>WOMSTD</td>
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</tbody>
</table>

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 and Geology section of the Department of Social Sciences. 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)
5000-7990 Graduate level

Credits
The course credits are listed to the right of the course number. One credit hour usually 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
Dean: Duane Merlin Ford  
Assistant Dean: Richard Klawiter  
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 (BILSA) 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 Business, Industry, Life Science and Agriculture 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 in both private and public entities, along with being 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 Study Abroad Programs in England, France, Germany, Ireland, Mexico and Spain. In selected majors, BILSA has one-to-one student exchange programs in partnership with universities in the Netherlands 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 Department of Business Administration.
Ornamental Horticulture Major:
Breeding and Genetics Emphasis
Business and Marketing Emphasis
International Emphasis
Science and Technology Emphasis

Reclamation, Environment & Conservation Major:
Biological Emphasis
Chemistry Emphasis
Physical Emphasis

Soil and Crop Science Major:
Agribusiness Emphasis
Comprehensive Emphasis
International Emphasis
Plant Breeding and Genetics Emphasis

Minors
Agribusiness
Animal Science
Biotechnology
Horticulture
Soil & Crop Science

Pre-Professional Program Major:
Pre-Veterinary Medicine

About the School and Majors
The School of Agriculture (SOA) offers programs designed to enable graduates to assume responsible positions for the future production and distribution of food in the United States and in the world. The school is particularly proud of alumni achievements including agricultural leadership in Wisconsin, the United States and other countries.

The School has two major objectives:
1. To provide students with general education in the biological, physical and social sciences and to introduce them to the arts and humanities
2. To provide a relevant and challenging education that will enable students to enter and advance in the professional agricultural career of their choice

Students in the SOA may choose from six possible majors: agribusiness, agricultural education, animal science, ornamental horticulture, reclamation environment and conservation, and soil and crop science.
A non-teaching agribusiness emphasis exists in agricultural education. An engineering technology emphasis in the agribusiness major provides an opportunity for students with career interests in that area. Available minors include agribusiness; animal science; biotechnology, horticulture; and soil and crop science. An international emphasis is available in agribusiness, animal science, ornamental horticulture and soil and crop science. Details are given under each major. Students interested in veterinary medicine may enroll in the pre-veterinary program.

Facilities

Classroom instruction within the field of agriculture requires experimentation, observation, and practical application of scientific information. Students majoring in agriculture use classroom laboratories and a 430-acre laboratory and demonstration farm for their course work. The farm also provides opportunities for applied research with a systems approach. 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 modern applications of biotechnology, computer technology, and engineering technology.

The university farm activities are centered on a systems approach. The university's farm livestock program includes dairy cattle, beef cattle, and swine. Experimental plots of Midwest cereal and forage crops, weed control and agronomic practices are planned and implemented by students as part of their course work. A global positioning system (precision farming) is used for field crops. An orchard, small fruit plantings, and flower beds serve as demonstration areas for classroom use. Agricultural field machinery and farmstead equipment are available for observation, test and analysis.

A new 6,000 square foot greenhouse surrounded by 25,000 square feet designated for gardens is located on campus to support classroom activities and laboratories for biology, horticulture, reclamation, environment and conservation, and soil and crop science. Students are involved in research projects involving resources in the greenhouse.

Internship Program

The internship program involves a supervised program of practices in such areas as plant and animal breeding; soil conservation; farm machinery and equipment; food processing and canning; farm supply and service; agricultural credit; agricultural engineering; marketing; business management; federal crop insurance; statistical reporting services; plant and animal nutrition; and farm management. The program provides SOA majors and potential employees an opportunity to become acquainted with a particular area through work experience. SOA students expressing interest in possible employment with an industry or agency may be selected to participate in this program.

Campus Organizations

Students enrolled in the SOA are encouraged to participate in extracurricular activities such as athletics, music, art, drama and a vast array of social events. In addition, 18 campus organizations serve the special interests of students majoring in agriculture.

The school has many successful judging teams that compete in national contests. The soil judging teams have won more national championships than any other university in the nation. Additional judging teams participate in dairy, meats, meat animal, crops, weeds, flower and marketing competitions.

General Requirements

Bachelor of Science Degree

Total for Graduation ........................................... 120 credits
General Education ............................................. 44-53 credits
Major Studies .................................................. 36-56 credits
Minor Studies ..................................................... 24 credits
**Agribusiness**

Contact: Kevin Bernhardt  
Office: 216 Pioneer Tower  
Phone: 608-342-1365  
E-mail: bernhark@uwplatt.edu

**Mission of the Agribusiness Program**

Wisconsin’s agricultural industry of production, processing, distribution, retail and services generates $84 plus billion in annual state revenue per year, making it the largest industry in Wisconsin. Wisconsin’s agricultural industry means jobs; 22 percent of the workforce relies directly on agriculture. The same story can be told in the surrounding regional states of Iowa, Illinois and Minnesota. With job placement near 100 percent, the baccalaureate degree program in agribusiness is a direct feed into the number one industry of the state and region - Agriculture.

The agribusiness industry is unique in several ways including:

- The manufacturing plant for agriculture’s raw materials such as milk, corn and meat is alive and perishable.
- The final consumer product of the industry is the building blocks of life itself - food.
- The product is a universally global need, and is supplied globally.
- The supply chain from raw material to food product requires a complex set of specialized activities and skills to deliver a safe and perishable product to the consumer.
- The industry is absolutely dependent on a symbiotic relationship with the natural world.
- The industry must bear unique risks of weather, disease and price volatility.
- The raw product supply side of the industry, production agriculture, is one of the very few industries that is commodity-based.

**Mission Statement**

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

**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 Record-Keeping  
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):**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>AGINDUS 1500</td>
<td>Introduction to Agribusiness</td>
<td>3 cr</td>
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<tr>
<td>AGINDUS 1750</td>
<td>Equipment, Structure and Power Systems</td>
<td>3 cr</td>
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<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>
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**Required Agribusiness Courses: (32 credits):**

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<td>Quantitative Methods in Agribusiness</td>
<td>3 cr</td>
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<tr>
<td>ECONOMIC 2230</td>
<td>Principles of Microeconomics</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

AGINDUS 1500 Introduction to Agribusiness will count within the Agribusiness major. For students in the Engineering Technology Emphasis, AGINDUS 1750 Equipment, Structure and Power Systems will count toward the Agribusiness major.

**Electives (12 credits):**

Electives can be any course chosen by the student and approved by the advisor.

**Minor (24 credits):**

Select 24 credit university minor to complete the degree.
Agribusiness Comprehensive Major
Course work 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 (32 credits):
- MATH 1830 Elementary Statistics 3 cr
- ECONOMIC 2230 Principles of Microeconomics 3 cr
- ACCTING 2010 Financial Accounting 3 cr
- ACCTING 2020 Management Accounting 3 cr
- AGINDUS 2430 Agricultural Marketing 3 cr
- AGINDUS 2450 Agribusiness Professional Development I 1 cr
- COMMNCTN 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 4500 Agribusiness Management 3 cr
- AGINDUS 4580 Agribusiness Internship 3 cr

Commodity and Price Analysis Emphasis (34 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 3 cr

Select 3 credits from Agricultural Sciences, Agricultural Engineering Technology or Reclamation.

Electives (17 credits):
Select electives in consultation with advisor

Management Emphasis (34 credits)

Required Courses (19 credits):
- AGINDUS 3420 Agricultural Finance 3 cr
- AGINDUS 3460 Farm Management and Record Systems 3 cr
- BUSADMIN 3530 Organizational Behavior 3 cr
- AGINDUS 4330 Agribusiness Marketing Management 3 cr

Select 3 credits from Agricultural Sciences, Agricultural Engineering Technology or Reclamation.

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
- AGINDUS 4460 Agricultural Policy 3 cr

Electives (15 credits):
Select 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 Writing Techniques 3 cr
- AGINDUS 4330 Agribusiness Marketing Management 3 cr
- COMMNCTN 4360 Strategies in Public Relations 3 cr

Select 3 credits from Agricultural Sciences, Agricultural Engineering Technology or Reclamation.

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

An additional 16 credits will be elected through consultation with an approval of the advisor.

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

International Emphasis

Required (12-21 credits):
- AGINDUS 2330 World Population, Food and Resources 3 cr
- SPEECH 2300 Introduction to Intercultural Communication 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 3 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 3 credit requirement.

Comprehensive Emphasis (33 credits)
A specialized 24 credit program of study (plus 9 elective credits) designed in consultation with and approval of the advisor.

Mission Statement
The mission of the Agricultural Education program at the University of Wisconsin-Platteville is to prepare students to become licensed to teach agricultural education primarily 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 SOA, upon admission to teacher education, are jointly enrolled in the College of Liberal Arts and Education and must fulfill the requirements for teacher education specified by that college. The agricultural education curriculum meets the requirements of the Wisconsin Department of Public Instruction for the certification of agriculture/agribusiness instructors at the junior/senior high school level. 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 Majors:
An option is available for students interested in qualifying for dual licensure certification in both agricultural education and technology education; please see your advisor and page 106 in this catalog for details.

Agricultural Education Major

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 Agriculture Courses (40 credits):

Agricultural Education (5 credits):
- AGINDUS 2920 Introduction to Agriculture and Extension Education 2 cr
- AGINDUS 3900 Planning Cooperative Education in Agriculture 3 cr

Required Crops/Soils/Horticulture Courses (7 credits):
- AGSCI 2230 Soils 3 cr
- Soils Elective 3 cr
- Crops/Horticulture Elective 3 cr
Each teacher is required to complete 2,000 hours of occupational experience in agriculture. Students not having such experience may meet this requirement through summer employment or by enrolling in AGINDUS 4580 Agricultural Business Internship. The occupational experience required of post-secondary education majors.

Graduates who qualify for certification to teach agriculture at the secondary level.

The comprehensive agricultural education major provides a balance of course work 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 horticulture or agribusiness management.

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 (PPST). 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.
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 PHYED 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/2320 PHYED Introduction to Physical Education class.
4. Be recommended for admission by two people (other than friends, relatives or UWP 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.
6. Have a cumulative grade point average (GPA) 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 (GPA) 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 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 appropriate Praxis II test(s). No waivers are allowed.
6. Have been admitted to the SOE for one full semester prior to student teaching.

Agricultural Education - Agribusiness (Non-Teaching)

The Agribusiness Option 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 Master of Science in Education would meet the requirements for obtaining a license to teach agriculture at the secondary level.
Requirements for this option are similar to those of the teaching option except that fewer education classes are taken and the student is not required to student teach. In addition, the students are not required to be admitted to the Teacher Education program. As such, they do not need to meet the GPA or PPST requirements listed for the teaching option.

**Agribusiness Option Comprehensive**

**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/Horticulture Courses (14 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 (14 credits):**
- AGSCI 3000 Animal Nutrition 4 cr
- AGSCI 3030 Genetics of Livestock Improvement 4 cr
- AGSCI 4110 Farm Animal Reproduction 3 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.

**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 Agriculture and Extension Education 2 cr
- AGINDUS 4930 Teaching Cooperative Education in Agriculture 3 cr

**Required Crops/Soils/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 4 cr
- AGSCI 4110 Farm Animal Reproduction 3 cr

**Required Agribusiness Courses (9 credits):**
- AGINDUS 2430 Agricultural Marketing 3 cr
- AGINDUS 2500 Producer and Consumer Cooperatives 3 cr
- AGINDUS 3460 Farm Management 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:** Robert Nusbaum  
**Office:** 223 Pioneer Tower  
**Phone:** 608-342-1324  
**E-mail:** nusbaum@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 bio-security

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 sustain ability

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. AGSC 1000 will count as an elective in the Animal Science Major.

### Animal Science Major

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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 Animal Science Courses (16 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 3000</td>
<td>Animal Nutrition</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 3020</td>
<td>Anatomy and Physiology of Domestic Livestock</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3030</td>
<td>Genetics of Livestock Improvement</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>
</tbody>
</table>

**Two Courses From (7-8 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 4030</td>
<td>Beef Management</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 4040</td>
<td>Swine Management</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 4050</td>
<td>Sheep and Wool Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4070</td>
<td>Dairy Cattle Management</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

**Two Courses From (3 credits):**

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

**Electives:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 1200</td>
<td>Animal Science Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 2000</td>
<td>Meat Animal Evaluation</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 2020</td>
<td>Introduction to Dairy Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 2050</td>
<td>Dairy Cattle Evaluation</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 3600</td>
<td>Ration Formulation/Evaluation</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4080</td>
<td>Ruminant Nutrition</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4090</td>
<td>Monogastric Nutrition</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4150</td>
<td>Biology of Lactation</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4200</td>
<td>Individual Study in Animal Science</td>
<td>1-4 cr</td>
</tr>
</tbody>
</table>

Other courses approved by advisor

**Minor**

Students must choose a 24 credit minor.

### Animal Science Comprehensive Major (60 Credits)

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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 Animal Science Courses (16 credits):

- AGSCI 3000 Animal Nutrition  4 cr
- AGSCI 3020 Anatomy and Physiology of Domestic Animals  3 cr
- AGSCI 3030 Genetics of Livestock Improvement  3 cr
- AGSCI 4110 Farm Animal Reproduction  4 cr
- AGSCI 4190 Seminar in Animal Science and Biotechnology  2 cr

Agribusiness Emphasis

At least two courses from (7-8 credits):

- AGSCI 4030 Beef Management  4 cr
- AGSCI 4040 Swine Management  4 cr
- AGSCI 4050 Sheep and Wool Management  3 cr
- AGSCI 4070 Dairy Cattle Management  4 cr

At least one course from (3 credits):

- AGSCI 4090 Monogastric Nutrition  3 cr

At least three courses from (7-10 credits):

- AGSCI 2020 Introduction to Dairy Science  3 cr
- AGSCI 2050 Dairy Cattle Evaluation  3 cr
- AGSCI 3010 Dairy Product Analysis and Processing  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 4200 Individual Study  1-4 cr

Required Courses (12 credits):

- AGINDUS 2430 Agricultural Marketing  3 cr
- AGINDUS 3410 Agricultural Consulting and Sales  3 cr
- AGINDUS 3420 Agricultural Finance  3 cr
- AGINDUS 3460 Farm Management and Record Systems  3 cr
- AGINDUS 3500 Agricultural Prices  3 cr
- AGINDUS 3520 Agricultural Law  3 cr
- AGINDUS 4400 Livestock and Meat Marketing  3 cr
- AGINDUS 4560 Current Issues in Farm Management  3 cr
- AGINDUS 4580 Agribusiness Internship  3-9 cr
- AGSCI 1320 Introduction to Ornamental Horticulture  3 cr
- AGSCI 2260 Nutrient Management in Agriculture  3 cr
- AGSCI 3350 Soil Fertility and Fertilizers in Agriculture  3 cr
- AGSCI 3340 Nutrient Management in Agriculture  3 cr
- AGSCI 4250 Weed Science  3 cr
- AGSCI 4320 Forage Crops  3 cr
- AGSCI 4380 Fertilizers  3 cr
- BIOLOGY 3240 Microbiology  4 cr
- 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 4890 Structures and Environmental Control  3 cr
- COMPUTER 1830 Microcomputer Applications  3 cr
- ENGLISH 3000 Technical Writing  3 cr

Other courses approved by advisor

Dairy Emphasis

One course from (3-4 credits):

- AGSCI 4030 Beef Management  4 cr
- AGSCI 4040 Swine Management  4 cr
- AGSCI 4050 Sheep and Wool Management  3 cr

Required Courses (19 credits):

- AGSCI 2020 Introduction to Dairy Science  3 cr
- AGSCI 2050 Dairy Cattle Evaluation  3 cr
- AGSCI 3010 Dairy Product Analysis and Processing  3 cr
- AGSCI 4070 Dairy Cattle Management  4 cr
- AGSCI 4080 Ruminant Nutrition  3 cr
- AGSCI 4150 Biology of Lactation  3 cr

Electives (21-22 credits):

- AGSCI 1200 Animal Science Management  2 cr
- AGSCI 2000 Meat Animal Evaluation  3 cr
- AGSCI 2030 Introduction to Food Science  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 4200 Individual Study  1-4 cr
- AGINDUS 2430 Agricultural Marketing  3 cr
- AGINDUS 3410 Agricultural Consulting and Sales  3 cr
- AGINDUS 3420 Agricultural Finance  3 cr
- AGINDUS 3460 Farm Management and Record Systems  3 cr
- AGINDUS 3500 Agricultural Prices  3 cr
- AGINDUS 3520 Agricultural Law  3 cr
- AGINDUS 4400 Livestock and Meat Marketing  3 cr
- AGINDUS 4560 Current Issues in Farm Management  3 cr
- AGINDUS 4580 Agribusiness Internship  3-9 cr
- AGSCI 1320 Introduction to Ornamental Horticulture  3 cr
- AGSCI 2260 Nutrient Management in Agriculture  3 cr
- AGSCI 3350 Soil Fertility and Fertilizers in Agriculture  3 cr
- AGSCI 3340 Nutrient Management in Agriculture  3 cr
- AGSCI 4250 Weed Science  3 cr
- AGSCI 4320 Forage Crops  3 cr
- AGSCI 4380 Fertilizers  3 cr
- BIOLOGY 3240 Microbiology  4 cr
- 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 4890 Structures and Environmental Control  3 cr
- COMPUTER 1830 Microcomputer Applications  3 cr

Other courses approved by advisor
### International Emphasis

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

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

**One course from:**

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

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

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

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

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

- Foreign Language course beyond second semester
- Any university course approved for International Education credit, not being used to meet the university international 3 credit requirement.

### Meat and Livestock Emphasis

**Two courses from (7-8 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 4030</td>
<td>Beef Management</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 4040</td>
<td>Swine Management</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 4050</td>
<td>Sheep and Wool Management</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Required Courses (6 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 2000</td>
<td>Meat Animal Evaluation</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3040</td>
<td>Principles of Meat Science</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

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

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

**Electives (25-26 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 1200</td>
<td>Animal Science Management</td>
<td>2 cr</td>
</tr>
<tr>
<td>AGSCI 2030</td>
<td>Introduction to Food Science</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 3600</td>
<td>Ration Formulation Evaluation</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4070</td>
<td>Dairy Cattle Management</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 4130</td>
<td>Mammalian Endocrinology</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 4150</td>
<td>Biology of Lactation</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4200</td>
<td>Individual Study</td>
<td>1-4 cr</td>
</tr>
</tbody>
</table>

*In Animal Science*

**Science Emphasis**

**Two courses from (7-8 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 4030</td>
<td>Beef Management</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 4040</td>
<td>Swine Management</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 4050</td>
<td>Sheep and Wool Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4070</td>
<td>Dairy Cattle Management</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

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

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

**At least two courses from (6 or more credits):**

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<tbody>
<tr>
<td>AGSCI 2000</td>
<td>Meat Animal Evaluation</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 2020</td>
<td>Introduction to Dairy Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 2050</td>
<td>Dairy Cattle Evaluation</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 3130</td>
<td>Topics in Animal Health</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3600</td>
<td>Ration Formulation Evaluation</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4080</td>
<td>Ruminant Nutrition</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4090</td>
<td>Monogastric Nutrition</td>
<td>4 cr</td>
</tr>
<tr>
<td>AGSCI 4130</td>
<td>Mammalian Endocrinology</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4150</td>
<td>Biology of Lactation</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4200</td>
<td>Individual Study</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>AGINDUS 4580</td>
<td>Agribusiness Internship</td>
<td>3-9 cr</td>
</tr>
</tbody>
</table>
Required Courses (16 credits):

- CHEMISTRY 1240 General Chemistry 4 cr
- CHEMISTRY 3510 Organic Chemistry Lab 1 cr
- CHEMISTRY 3540 Organic Chemistry 4 cr
- CHEMISTRY 4630 Biochemistry 3 cr
- BIOLOGY 3240 Microbiology 4 cr

Electives (11-13 credits):

- BIOLOGY 3040 Comparative Anatomy of Vertebrates 4 cr
- BIOLOGY 3120 Animal Tissue Culture 3 cr
- BIOLOGY 3140 Vertebrate Embryology 4 cr
- BIOLOGY 3330 Principles of Genetics 3 cr
- BIOLOGY 3530 Advanced Biotechnology 3 cr
- BIOLOGY 3620 Essentials of Immunology 2 cr
- BIOLOGY 3750 Fresh Water Biology 3 cr
- BIOLOGY 4340 Mammalian Histology 3 cr
- PHYSICS 1110 Introduction to Physics I Lab 1 cr
- PHYSICS 1140 Introduction to Physics 4 cr
- PHYSICS 1210 Introduction to Physics II Lab 1 cr
- PHYSICS 1240 Introduction to Physics II 4 cr
- PHYSICS 2530 General Physics 3 cr
- PHYSICS 2640 General Physics II 3 cr
- CHEMISTRY 3610 Organic Chemistry Lab 1 cr
- CHEMISTRY 3630 Organic Chemistry 3 cr

Other courses approved by advisor

Ornamental Horticulture

Contact: Michael E. Compton
Office: 212 Pioneer Tower
Phone: 608-342-1323
E-mail: compton@uwplatt.edu

Ornamental horticulture is the art and science involved in growing and arranging plants for their aesthetic value. It is a division 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.

The mission of the ornamental horticulture program is to prepare students for careers 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 in ornamental horticulture. Specific goals and objectives for the ornamental horticulture program at the University of Wisconsin-Platteville are to provide curricular and educational opportunities which result in graduates that:

- demonstrate effective oral and written communication skills;
- exhibit working knowledge of ornamental plant species;
- demonstrate an in-depth comprehension of the horticultural and biological sciences, and are able to apply their knowledge as it relates to ornamental horticulture;
- think creatively and are able to recognize, analyze, diagnose and critically evaluate problems and practices;
- possess the ability to employ problem solving techniques by acting individually or using a team oriented approach;
- possess a comprehension of the administrative and managerial skills necessary when managing and operating a horticultural business; and
- are professionals and leaders in society and ornamental horticulture that act in a courteous, ethical and responsible manner.

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 program. For this reason, students are required to complete a three-credit internship. Internships are available all year throughout the United States, and provide excellent practical experience to earn college credits.

Students that complete the program qualify for jobs in landscape horticulture, turf management, nursery and garden center operations, bedding plant production, greenhouse management, retail floral shops, seed production, or education and research. High school students should prepare for the 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):

- AGSCI 1240 The Plant-Soil Environment 3 cr
- AGSCI 2230 Soils 4 cr
- AGSCI 2280 Woody Landscape Plants 3 cr
- AGSCI 3220 Plant Development and Biotechnology 4 cr
- AGSCI 3310 Soils, Crops and Ornamental Horticulture Seminar 1 cr
- AGSCI 3320 Landscape Management 3 cr
- AGSCI 3320 Landscape Management 3 cr
- AGSCI 4260 Interior Plants 3 cr
- AGSCI 4360 Greenhouse Operation and Management 3 cr
- AGSCI 4340 Plant Physiology 3 cr
- BIOLOGY 4530 Plant Pathology 3 cr
- AGINDUS 4580 Agricultural Business Internship 3 cr

Electives (10 credits):

- AGSCI 3200 Pest Identification and Management 3 cr
- AGSCI 3230 Turfgrass Management 3 cr
- AGSCI 3240 Herbaceous Plants 2 cr
- AGSCI 3270 Landscape Design 3 cr
- AGSCI 3300 Fruit and Vegetable Production 3 cr
- AGSCI 3320 Landscape Management** 3 cr
- GSCI 4260 Interior Plants 3 cr
- AGSCI 3370 Undergraduate Research in Ornamental Horticulture 1-3 cr
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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>BIOLOGY 4530</td>
<td>Plant Pathology</td>
<td>3 cr</td>
</tr>
<tr>
<td>RECLAM 3020</td>
<td>Reclamation Revegetation</td>
<td>3 cr</td>
</tr>
<tr>
<td>**</td>
<td>Counts as an elective if not used to fulfill requirement for ornamental horticulture major.</td>
<td></td>
</tr>
</tbody>
</table>

### Areas of Emphasis

#### Business and Marketing Emphasis

**Required Courses (6 credits):**

- ACCTING 2010 Financial Accounting 3 cr
- AGINDUS 1500 Introduction to Agribusiness 3 cr
- or
- BUSADMIN 1300 Global Business 3 cr

**Ornamental Horticulture Electives (8-11 credits):**

- AGSCI 3200 Pest Identification and Management 3 cr
- AGSCI 3230 Turfgrass Management 3 cr
- AGSCI 3240 Herbaceous Plants 2 cr
- AGSCI 3270 Landscape Design 3 cr
- AGSCI 3300 Fruit and Vegetable Production 3 cr
- AGSCI 3320 Landscape Management ** 3 cr
- or
- GSCI 3370 Undergraduate Research in Ornamental Horticulture 1-3 cr
- AGSCI 3400 Special Topics in Ornamental Horticulture 1-3 cr
- AGSCI 4250 Weed Science 4 cr
- AGINDUS 4580 Agricultural Business Internship 3 cr
- BIOLOGY 3330 Genetics 3 cr
- BIOLOGY 3340 Entomology 4 cr
- BIOLOGY 3550 Morphology and Evolution of Vascular Plants 4 cr
- or
- BIOLOGY 3640 Plant Systematics 4 cr
- RECLAM 3020 Reclamation Revegetation 3 cr
- ** Counts as an elective if not used to fulfill requirement for ornamental horticulture major.**

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

- AGINDUS 2430 Agricultural Marketing 3 cr
- AGINDUS 2470 Agricultural Consulting and Sales 3 cr
- AGINDUS 2471 Agricultural Finance 3 cr
- AGINDUS 2580 Agribusiness Marketing 3 cr
- COMPUTER 1830 Microcomputer Applications 3 cr
- COMPUTER 2830 Advanced Microcomputer Applications 3 cr
- BUSADMIN 2330 Leadership and Management 3 cr
- BUSADMIN 2630 Introduction to Marketing 3 cr
- BUSADMIN 3030 Human Resource Management 3 cr
- BUSADMIN 3120 Retailing 3 cr
- BUSADMIN 3230 Small Business Management 3 cr
- BUSADMIN 3340 Management, Gender and Race 3 cr
- BUSADMIN 3630 Advertising 3 cr
- BUSADMIN 4200 Employee Recruitment and Selection 3 cr
- COMMNCTN 3010 Business Communications 3 cr

### Professional Landscape Management Emphasis

**Required Courses (21 credits):**

- CHEMSTRY 1140 General Chemistry 4 cr
- AGSCI 3230 Turfgrass Management 3 cr
- AGSCI 3240 Herbaceous Plants 2 cr
- AGSCI 3270 Landscape Design 3 cr
- AGSCI 3320 Landscape Management 3 cr
- AGSCI 4250 Weed Science 3 cr
- AGSCI 4260 Interior Plants 3 cr
- BUSADMIN 1500 Introduction to Agribusiness 3 cr
- AGINDUS 1750 Equipment, Structure and Power Systems 3 cr
- AGINDUS 3830 Engine and Tractor Systems 3 cr
- AGINDUS 3850 Electrical Applications in Agriculture 3 cr
- AGINDUS 3950 Soil and Water Conservation Engineering 3 cr
- AGINDUS 4580 Agribusiness Internship 3 cr
- AGSCI 3200 Pest Identification and Management 3 cr
- AGSCI 3300 Fruit and Vegetable Production 3 cr
- AGSCI 3350 Soil Fertility and Fertilizers 3 cr
- AGSCI 3400 Special Topics in Ornamental Horticulture 1-3 cr
- AGSCI 4350 Soil and Water Conservation 3 cr
- BIOLOGY 3330 Genetics 3 cr
- BIOLOGY 3340 Entomology 4 cr
- or
- BIOLOGY 3450 Ecology and Evolution of Vascular Plants 3 cr
- BIOLOGY 3550 Morphology and Evolution of Vascular Plants 4 cr
- BIOLOGY 3640 Plant Systematics 4 cr
- BUSADMIN 2330 Leadership and Management 3 cr
- BUSADMIN 2630 Introduction to Marketing 3 cr
- BUSADMIN 3230 Small Business Management 3 cr
- RECLAM 3020 Reclamation Revegetation 3 cr
- INDUSTDY 1130 Basic Woods 3 cr
- INDUSTDY 1230 Technical Drafting 3 cr
Breeding and Genetics Emphasis

**Required Courses (15 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AGSCI 3240 Herbaceous Plants</td>
<td>2 cr</td>
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<tr>
<td>AGSCI 4240 Plant Breeding Principles</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3330 Genetics</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3530 Biotechnology</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMISTRY 1140 General Chemistry **</td>
<td>4 cr</td>
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</tbody>
</table>

*Chemistry (Required Natural Science)*

<table>
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<th>Credits</th>
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<tbody>
<tr>
<td>CHEMISTRY 1240 General Chemistry</td>
<td>4 cr</td>
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</tbody>
</table>

**Breeding and Genetics Electives (6-12 credits):**

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AGSCI 3200 Pest Identification and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3230 Turfgrass Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3300 Fruit and Vegetable Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3320 Landscape Management **</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4260 Interior Plants</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3370 Undergraduate Research in Ornamental Horticulture</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>AGSCI 4250 Weed Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 4580 Agricultural Business Internship</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 2040 Cell Biology</td>
<td>4 cr</td>
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<tr>
<td>BIOLOGY 3240 Microbiology</td>
<td>4 cr</td>
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<tr>
<td>BIOLOGY 3340 Entomology</td>
<td>4 cr</td>
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<tr>
<td>BIOLOGY 4040 Molecular Biology</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMISTRY 3540 Organic Chemistry Lecture</td>
<td>4 cr</td>
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<tr>
<td>CHEMISTRY 3510 Organic Chemistry Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>CHEMISTRY 4630 General Biochemistry</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMISTRY 4720 General Biochemistry Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>PHILSPHY 2540 Science, Technology and Ethics</td>
<td>3 cr</td>
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</table>

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

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

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>AGINDUS 1500 Introduction to Agribusiness</td>
<td>3 cr</td>
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<tr>
<td>AGINDUS 2430 Agricultural Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 4330 Agribusiness Marketing Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 2330 Leadership and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 2630 Introduction to Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3030 Human Resource Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 3230 Small Business Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 4200 Employee Recruitment and Selection</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCNT 3010 Business Communications</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 1830 Microcomputer Applications</td>
<td>3 cr</td>
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<tr>
<td>COMPUTER 2830 Advanced Microcomputer Applications</td>
<td>3 cr</td>
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International Emphasis

**Required Courses (44-53 credits):**

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

**One course from:**

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

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

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

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

**Ornamental Horticulture Electives (4 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSCI 3200 Pest Identification and Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3230 Turfgrass Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3300 Fruit and Vegetable Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3320 Landscape Management **</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4260 Interior Plants</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3300 Undergraduate Research in Ornamental Horticulture</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>AGSCI 3400 Special Topics in Ornamental Horticulture</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>AGSCI 4250 Weed Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3330 Genetics</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3340 Entomology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3640 Plant Systematics</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3550 Morphology and Evolution of Vascular Plants</td>
<td>4 cr</td>
</tr>
<tr>
<td>RECLAM 3020 Reclamation Revegetation</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 4580 Agribusiness Internship</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

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

Students may select any International Education course not already used to fulfill the general education International requirement and/or a foreign language course beyond second semester.
Reclamation, Environment and Conservation (REC), is an applied environmental science, which addresses the restoration of natural and cultural resources by the practical application of science, technology and management. Its basis lies in both ethics and sound management of the planet. REC is a natural adjunct to land use activities such as mining and forestry; construction and development; and agriculture and native ecosystems. The program at UW-Platteville was designed with input from industry, government and academic practitioners. The UW-Platteville REC major was the first four-year college program of its kind in the United States. Essential to this program is training in the fields of civil engineering, soil science, biology, geology, ecology, environmental law and chemistry. There are very few universities with accredited programs in all of these required fields.

The courses in the REC program are established and coordinated by the director and a council comprised of major faculty active in REC. In addition to the courses provided by the supporting departments, specific courses in reclamation focus on integrating the knowledge and skills acquired toward reclamation applications. Within the REC major, a student may elect to focus upon either a physical emphasis, a biological emphasis or a 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 and technical courses and a strong commitment to the environmental profession.

Reclamation, Environment and Conservation Major

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

- CHEMSTRY 1240 Chemistry 4 cr
  (unnecessary if 1450 is taken)
- CHEMSTRY 3110 Environmental Chemistry Lab 1 cr
- CHEMSTRY 3130 Environmental Chemistry 3 cr
- COMPUTER 1830 Microcomputer Applications 3 cr
- AGSCI 2230 Soils 3 cr
- BIOLOGY 3450 Ecology and Evolution 3 cr
  and/or
- BIOLOGY 3460 Ecological Methods of Research 3 cr
- ENGLISH 3000 Technical Writing 3 cr
  or
- CIVILENG 2630 Elements of Surveying 3 cr
- RECLAM 1010 Introduction to Reclamation 3 cr
- RECLAM 3010 Current Topics in Reclamation 3 cr
- RECLAM 3020 Reclamation Revegetation 3 cr
- RECLAM 3900 Reclamation Demonstration 1-4 cr
  Field Trip
- RECLAM 4940 Reclamation Project Management 3 cr
- GENENG 1320 Engineering Graphics/Computer Graphics 2 cr
  or
- INDUSTDY 1230 Technical Drafting 3 cr
- GEOLOGY 1140 Physical Geology 4 cr
  or
- GEOLOGY 3130 Engineering Geology 3 cr
- CIVILENG 4300 Hydrology 3 cr
  or
- GEOLOGY 3430 Hydrogeology 3 cr
- CIVILENG 4310 Groundwater Hydrology 3 cr
- CIVILENG 4630 Geographic Information Systems 3 cr
  or
- GEOGRPHY 3230 Geographic Information Systems 3 cr
- AGINDUS 3950 Soil and Water Conservation Engineering 3 cr
  or
- AGSCI 4350 Soil and Water Conservation 3 cr
- CIVILENG 3020 Construction Engineering 3 cr
  or
- CIVILENG 3340 Environmental Engineering 4 cr
- CRIMLJUS 3800 Environmental Law 3 cr
  or
- CRIMLJUS 4500 Individual Studies 1-3 cr
- RECLAM 4920 Independent Study 1-3 cr
  or
- RECLAM 4660 Cooperative Field Experience 1-8 cr

Areas of Emphasis

**Physical Emphasis**

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

- GEOGRPHY 3040 Mineralogy and Lithology 4 cr
- PHYSICS 1140 Introduction to Physics I 4 cr
  or
- PHYSICS 2530 General Physics I and Lab 4 cr
- GEOGRPHY 2230 Cartography 3 cr
- GEOGRPHY 3520 Air Photo Interpretation 3 cr
- GEOGRPHY 3720 Remote Sensing 3 cr
- GEOGRPHY 1140 Physical Geography and Geomorphology 4 cr
- GEOLOGY 3230 Sedimentary Geology 4 cr
- GEOLOGY 3830 Field Methods and Mapping 4 cr
- GEOLOGY 4340 Regional Geomorphology 4 cr

**Chemistry Emphasis**

**Required Courses (10 credits):**

- CHEMSTRY 2150 Quantitative Analysis 5 cr
- CHEMSTRY 3540 Organic Chemistry Lecture 4 cr
- CHEMSTRY 3510 Organic Chemistry Lab 1 cr
### Biology Emphasis

**Required Courses (15 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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 3350</td>
<td>Soil Fertility and Fertilizers</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 1650</td>
<td>Unity of Life</td>
<td>5 cr</td>
</tr>
<tr>
<td>and/or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOLOGY 1750</td>
<td>Diversity of Life</td>
<td>5 cr</td>
</tr>
<tr>
<td>BIOLOGY 3640</td>
<td>Plant Systematics</td>
<td>4 cr</td>
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<tr>
<td>BIOLOGY 3750</td>
<td>Freshwater Biology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY 3240</td>
<td>Microbiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3340</td>
<td>Entomology</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

### Soil and Crop Science

**Contact:** Chris Baxter  
**Program Office:** 208 Pioneer Tower  
**Phone:** 608-342-1388  
**E-mail:** baxterch@uwplatt.edu

### Mission and Purpose of the Soil and Crop Science Program

Students majoring in Soil and Crop Science will be prepared for careers as resourceful, ethically responsible and competent agronomists by combining their liberal arts education with professional course work 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 agribusiness, plant breeding and genetics, comprehensive and international.

The Soil and Crop Science program supports the UWP 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):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</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>
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**Required Courses (27 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AGSCI 3230</td>
<td>Turfgrass Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3260</td>
<td>Seed and Grain Crops</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 3330</td>
<td>Soil Morphology and Classification</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 3380</td>
<td>Special Problems in Soil Science</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>AGSCI 3390</td>
<td>Special Problems in Crop Science</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>AGSCI 4240</td>
<td>Plant Breeding Principles</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4250</td>
<td>Weed Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4320</td>
<td>Forage Crops</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4360</td>
<td>Crop Pesticides and Growth Regulators</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4370</td>
<td>Soil Physics</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4390</td>
<td>Soil Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 3950</td>
<td>Soil/Water Conservation</td>
<td>3 cr</td>
</tr>
<tr>
<td>RECLAM 3020</td>
<td>Reclamation Revegatation</td>
<td>3 cr</td>
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</table>

**Electives (9 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
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</tr>
<tr>
<td>RECLAM 3020</td>
<td>Reclamation Revegatation</td>
<td>3 cr</td>
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</table>

A 24-credit emphasis or minor must be selected.

### Agribusiness Emphasis

**Required Courses (12 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AGINDUS 2430</td>
<td>Agricultural Marketing</td>
<td>3 cr</td>
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<tr>
<td>AGINDUS 3410</td>
<td>Agricultural Consulting and Sales</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGINDUS 3460</td>
<td>Farm Management</td>
<td>3 cr</td>
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<tr>
<td>AGINDUS 3500</td>
<td>Agricultural Prices and Risk Management</td>
<td>3 cr</td>
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### Soil and Crop Science Electives (12 credits):**

<table>
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<tr>
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<td>AGSCI 4320</td>
<td>Forage Crops</td>
<td>3 cr</td>
</tr>
<tr>
<td>AGSCI 4360</td>
<td>Crop Pesticides and Growth Regulators</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
AGSCI 4370 Soil Physics 3 cr
AGSCI 4390 Soil Analysis 3 cr

**Agribusiness Electives (9 credits):**
AGINDUS 2500 Producer and Consumer Cooperatives 3 cr
AGINDUS 3430 Quantitative Methods in Agribusiness Marketing Mgmt 3 cr
AGINDUS 3520 Agricultural Law 3 cr
AGINDUS 3530 Agricultural Commodity Marketing 3 cr
AGINDUS 4330 Agribusiness Marketing Management 3 cr
AGINDUS 4400 Livestock and Meat Marketing 3 cr
AGINDUS 4460 Agricultural Policy Seminar 3 cr
AGINDUS 4500 Agribusiness Management 3 cr
AGINDUS 4580 Agribusiness Internship 3 cr
AGINDUS 4620 Agricultural Commodity Price Forecasting 3 cr

**Plant Breeding and Genetics Emphasis**

**Required Courses (13 credits):**
AGSCI 4240 Plant Breeding Principles 3 cr
BIOLOGY 3330 Principles of Genetics 3 cr
BIOLOGY 3550 Biotechnology 3 cr
CHEM 1240 General Chemistry 4 cr

**Soil and Crop Science Electives (9 credits):**
AGSCI 3230 Turfgrass Management 3 cr
AGSCI 3260 Seed and Grain Crops 3 cr
AGSCI 3300 Fruit and Vegetable Production 3 cr
AGSCI 3330 Soil Morphology and Classification 3 cr
AGSCI 3390 Special Problems in Crop Science 1-3 cr
AGSCI 4250 Weed Science 3 cr
AGSCI 4320 Forage Crops 3 cr
AGSCI 4360 Crop Pesticides and Growth Regulators 3 cr
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 4 cr
BIOLOGY 4530 Plant Pathology 3 cr
CHEMISTRY 3540 General Organic Chemistry 4 cr
CHEMISTRY 3540 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
AGSCI 3330 Soil Morphology and Classification 3 cr
AGSCI 4250 Weed Science 3 cr
AGSCI 4320 Forage Crops 3 cr

**Biological or Physical Science Electives (7-9 credits):**
BIOLOGY 3240 Microbiology 4 cr
BIOLOGY 3330 Genetics 3 cr
BIOLOGY 3340 Entomology 3 cr
BIOLOGY 3450 Ecology and Evolution 3 cr
BIOLOGY 3640 Plant Systematics 4 cr
BIOLOGY 4530 Plant Pathology 3 cr
GEOLOGY 1140 Physical Geology 4 cr
GEOGRAPHY 1240 Weather and Climate 4 cr
GEOGRAPHY 3840 Soil Geomorphology 4 cr
PHYSICS 1140/1110 Introduction to Physics 5 cr

**Comprehensive Electives (12-14 credits):**
Select any Agriculture courses

**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
or
BUSADMIN 3720 International Marketing 3 cr
or
BUSADMIN 4940 International Management 3 cr

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

* 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 3 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 3330 Soil Morphology and Classification 3 cr
AGSCI 3390 Special Problems in Crop Science 1-3 cr
AGSCI 3420 Plant Breeding Principles 3 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
International Electives (3-12 credits):
Students may select any International Education course not already used to fulfill the general education International requirement and/or a foreign language course beyond second semester.

Minors

Agribusiness Minor (24 credits)
ACCTING 2010 Financial Accounting 3 cr
AGINDUS 2430 Agricultural Marketing 3 cr
AGINDUS 3410 Agricultural Consulting and Sales 3 cr
AGINDUS 3500 Agricultural Prices 3 cr
AGINDUS 3460 Farm Management and Record Systems 3 cr

or
AGINDUS 4500 Agribusiness Management 3 cr

The remaining credits are selected from agribusiness 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 (3-4 credits):
AGSCI 4030 Beef Management 4 cr
AGSCI 4040 Swine Management 4 cr
AGSCI 4050 Sheep and Wool Management 3 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 3200 Pest Identification and Management 3 cr
AGSCI 3220 Plant Development and Biotechnology 4 cr
AGSCI 3230 Turfgrass Management 3 cr
AGSCI 3270 Landscape Design 3 cr
AGSCI 3300 Fruit and Vegetable Production 3 cr
AGSCI 3320 Landscape Management 3 cr

AGSCI 3360 Greenhouse Operation and Management * 3 cr
AGSCI 3370 Undergraduate Research in Ornamental Horticulture 1-3 cr
AGSCI 3400 Special Topics in Ornamental Horticulture 1-3 cr
AGSCI 4250 Weed Science 3 cr
AGSCI 4340 Plant Physiology 3 cr
BIOLOGY 3340 Entomology 4 cr
BIOLOGY 3640 Plant Systematics 4 cr

* Cannot be used as an elective if used to fulfill a college or major requirement.

Soil and Crop Science Minor (24 credits)

Required Courses (14 credits):
AGSCI 2230 Soils 4 cr
AGSCI 3200 Pest Identification and Management 3 cr
AGSCI 3310 Soils, Crops and Ornamental Horticulture Seminar 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 Principles 3 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 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)

Requirements (12 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOLOGY 1650</td>
<td>Unity of Life</td>
<td>5 cr</td>
</tr>
<tr>
<td>BIOLOGY 2040</td>
<td>Cell Biology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY 3330</td>
<td>Genetics</td>
<td>3 cr</td>
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<tr>
<td>or</td>
<td>AGSCI 3030</td>
<td>Genetics of Livestock Improvement</td>
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<tr>
<td>or</td>
<td>BIOLOGY 3330</td>
<td>Biotechnology</td>
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<tr>
<td>or</td>
<td>BIOLOGY 4520</td>
<td>Biotechnology Seminar</td>
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</table>

Physiology co-requisite: Select 3-4 credits (credits do not count toward completion of the minor):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AGSCI 3020</td>
<td>Anatomy and Physiology of Domestic Animals</td>
<td>4 cr</td>
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<tr>
<td>or</td>
<td>AGSCI 4340</td>
<td>Plant Physiology</td>
</tr>
<tr>
<td>or</td>
<td>BIOLOGY 4240</td>
<td>Advanced Physiology</td>
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<td>or</td>
<td>BIOLOGY 2240</td>
<td>Anatomy and Physiology II</td>
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<tr>
<td>or</td>
<td>BIOLOGY 2340</td>
<td>Essentials of Anatomy and Physiology</td>
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Tissue Culture Course(s): Select 2-5 credits:

<table>
<thead>
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<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>AGSCI 3220</td>
<td>Plant Development and Biotechnology</td>
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</tr>
<tr>
<td>BIOLOGY 3120</td>
<td>Animal Tissue Culture 2</td>
<td>2 cr</td>
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Electives to complete minor: Select 7-10 credits:

<table>
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<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>AGSCI 3070</td>
<td>Biotechnology in Animal Science</td>
<td>3 cr</td>
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<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>
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<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>
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<tr>
<td>CHEMSTRY 4610</td>
<td>Biochemistry Lab</td>
<td>1 cr</td>
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<tr>
<td>CHEMSTRY 4630</td>
<td>Biochemistry</td>
<td>3 cr</td>
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<tr>
<td>CHEMSTRY 4830</td>
<td>Topics in Biochemistry</td>
<td>3 cr</td>
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Up to 3 credits may be selected from:

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>AGSCI 3370</td>
<td>Special Problems in Plant Biotechnology</td>
<td>1-3 cr</td>
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<tr>
<td>BIOLOGY 4410</td>
<td>Topics in Biology (applicable to Biotechnology)</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>BIOLOGY 4920</td>
<td>Independent Research in Biology</td>
<td>1-3 cr</td>
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</tbody>
</table>

NOTE: Elective Courses have individual pre-requisites that may not be listed above.

SCHOOL OF AGRICULTURE COURSES

AGINDUS 1500  3 credits
Introduction to Agribusiness

AGINDUS 1500 presents a background of American agriculture; interrelationships of agricultural industries; economic concepts of production, marketing and consumption of food in the United States; principles of management; agricultural policy; and key issues and trends in agribusiness.

Components: Laboratory, Lecture

AGINDUS 1750  3 credits
Equipment, Structure and Power Systems

AGINDUS 1750 trends and opportunities in mechanized agriculture; problems to illustrate the work of four major divisions of agricultural engineering: power and machinery, electrical power and processing, structures and environment, and soil and water conservation engineering practices.

Components: Laboratory, Lecture

AGINDUS 2330  3 credits
World Population, Food and Resources

AGINDUS 2330 examines current and future world population trends; study world food problems, nutrition, world hunger and food supply and demand situations; scrutinize economic development and analyze the impact on resources for society and individuals under various cultural, religious, economic, geographical and political conditions.

Components: Lecture

GE: International Education, Social Science

AGINDUS 2430  3 credits
Agricultural Marketing

AGINDUS 2430 principles and organization of agricultural marketing; market functions, structure and organizations; and commodity and branded marketing.

Components: Lecture

Prereqs/Coreqs: P: AGINDUS 1500

AGINDUS 2450  1 credit
Agribusiness Professional Development I

AGINDUS 2450 an introductory course for discovering personal and career goals, an exploration of the agribusiness industry, and preparation for securing an internship which is a requirement of the major. Students will explore their career interests through reading, interviewing, job shadowing and other career exploration activities. Students will also prepare and critique resumes and cover letters and interview skills.

Components: Lecture

AGINDUS 2500  3 credits
Producer and Consumer Cooperatives

AGINDUS 2500 development, principles, legal basis, organization, finance, taxation and management of agricultural, consumer and industrial cooperatives.

Components: Lecture

Prereqs/Coreqs: P: AGINDUS 1500

AGINDUS 2920  2 credits
Introduction to Agricultural and Extension Education

AGINDUS 2920 an introduction to the origin, organizational structure and scope of the Agricultural Extension Service and to education in agriculture, trends in these programs and the training requirements and professional opportunities associated with these trends.

Components: Lecture

AGINDUS 3410  3 credits
Agricultural Consulting and Sales

AGINDUS 3410 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.

Components: Lecture

Prereqs/Coreqs: P: AGINDUS 1500
Agricultural Finance
Capital and credit needs of farmers, agencies supplying credit needs, farm loan analysis, budgeting and capital investment analysis.
Components: Lecture
Prereqs/Coreqs: P: AGINDUS 1500 and ACCTING 2010

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 sampling and survey design, regression, correlation, tests for dependence, hypothesis testing, non-parametric techniques, linear programming, simulation, optimization and others.
Components: Lecture
Prereqs/Coreqs: P: AGINDUS 1500 and MATH 1830

Agribusiness Professional Development II
Professional and career development towards obtaining career objectives. Course objectives include planning and development of credentials needed 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: AGINDUS 2450 and junior standing

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

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

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; and governmental regulatory agencies.
Components: Lecture
Prereqs/Coreqs: P: AGINDUS 1500

Agricultural Commodity Marketing
Current marketing trends and problems, futures marketing and forward contracting, bargaining, international trade and current marketing issues of selected agricultural commodities.
Components: Lecture
Prereqs/Coreqs: P: AGINDUS 2430 or BUSADMIN 3620

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

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; and emergency power generation.
Components: Laboratory, Lecture
Prereqs/Coreqs: P: AGINDUS 1750 or consent of instructor

Planning Cooperative Education in Agriculture
Determination of general program objectives and planning for the administration of all facets of the program, including curriculum development, instructional facilities and materials, Supervised Agricultural Experience Programs, and the F.F.A. Program of Activities.
Components: Lecture

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

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; and pricing and product strategies for agricultural (food and inputs) products.
Components: Lecture
Prereqs/Coreqs: P: AGINDUS 1500 and AGINDUS 2430

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 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 4640  2 - 3 credits
Current Issues in Agricultural Industries
The course content will vary with each offering based on issues identified for a specific class. Examples of probable issues include commodity marketing analysis for hedging and forward pricing, agricultural finance and farm/agribusiness marketing and management.

Components: Lecture

AGINDUS 4690  3 credits
Agricultural Commodity Price Forecasting
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 4950  3 credits
Resolving Agricultural Issues
This course is designed to be a culminating learning experience. The course is interdisciplinary in nature. Each student will be required to use knowledge learned in prior courses across the curriculum and to research additional information to determine possible solutions to real issues and problems in agriculture. The course will require students to determine solutions together as a team.

Components: Lecture

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

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; and 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

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 1320  3 credits
Introduction to Ornamental Horticulture
An introduction to the basic principles of horticultural biology including plant classification and structure, and the influence of plant genotype, environmental factors, horticultural practices, and pests on the growth and development of horticulturally important plants.
  Components: Laboratory, Lecture
AGSCI 2000  3 credits
Meat and Animal Evaluation
The evaluation of beef, dairy-beef, sheep and swine market animals for carcass merit; and 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: Laboratory, Lecture
  Prereqs/Coreqs: P: AGSCI 1240 or BIOLOGY 1350 or consent of the instructor

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 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 1140
AGSCI 3020  3 credits
Anatomy and Physiology of Domestic Animals
The anatomy and physiology of farm animals.
  Components: Lecture
  Prereqs/Coreqs: P: AGSCI 1000
AGSCI 3030  3 credits
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 1350 or 1450 or 1150
AGSCI 3040  3 credits
Principles of Meat Science
Structure and composition of skeletal and connective tissue; post mortem changes affecting meat quality and processing characteristics; processing techniques and quality control tests for meat products.
  Components: Laboratory, Lecture
  Prereqs/Coreqs: P: AGSCI 1000
AGSCI 3070  3 credits
Biotechnology in Animal Science
Principles of current methodologies utilized in biotechnology and the specific application to areas of animal science will be presented.
  Components: Lecture
AGSCI 3120  3 credits
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  3 credits
Pest Identification and Management
The basic principles of weed, insect, and disease pest identification and integrated pest management (IPM) in agricultural and urban environments involving biological, cultural and chemical control of pests as it relates to production decisions, environmental impacts and management of pest resistance.

Components: Lecture
Prerequisites/Corequisites: P: AGSCI 1240 or BIOLOGY 1350 or consent of instructor

AGSCI 3220  4 credits
Plant Development and Biotechnology
Students will use the methods of science as employed through plant cell culture and biotechnology to explore the development of plant tissues and organs in vitro. Topics include plant anatomy and growth regulators, development of axillary and adventitious shoots, direct and indirect somatic embryogenesis, the use of biotechnology for plant improvement and biometric statistical analysis and data interpretation. Students will be expected to review and critique published scientific articles as well as statistically analyze data and write interpretive papers based on results gained from experiments conducted in the laboratory. This is an intensive writing course.

Components: Laboratory, Lecture
Prerequisites/Corequisites: P: AGSCI 1240 or BIOLOGY 1350
General Education: Natural Science

AGSCI 3230  3 credits
Turfgrass Management
The basic principles and practices involved in the establishment and maintenance of turfgrass species.

Components: Laboratory, Lecture
Prerequisites/Corequisites: P: AGSCI 1240 or BIOLOGY 1350 or consent of the instructor

AGSCI 3240  2 credits
Herbaceous Plants
Identification, use, management and propagation of herbaceous annual, biennial and perennial plants species important in Midwest landscapes will be discussed.

Components: Lecture
Prerequisites/Corequisites: P: AGSCI 1240 or BIOLOGY 1350 or consent of the instructor

AGSCI 3260  3 credits
Seed and Grain Crops
Principles and practices used in the production and evaluation of seed for sale and commercial market grain crops.

Components: Laboratory, Lecture
Prerequisites/Corequisites: P: AGSCI 1240

AGSCI 3270  3 credits
Landscape Design
An exploration of the basic principles and practices of landscape design including the art of landscapes, comprehensive site analysis and base map preparation, design principles, understanding and respect for the plant materials in landscapes, graphic skills and preparation of landscape drawings.

Components: Laboratory, Lecture
Prerequisites/Corequisites: P: AGSCI 2280 or consent of instructor

AGSCI 3300  3 credits
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
Prerequisites/Corequisites: P: AGSCI 1240 or BIOLOGY 1350 or consent of the instructor

AGSCI 3310  1 credit
Soils, Crops and Ornamental Horticulture Seminar
Review of current literature.

Components: Seminar
Prerequisites/Corequisites: 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 will be discussed. Topics include landscape design and grounds management, pruning, irrigation and nutrient management, integrated pest management as well as marketing landscape services, estimating, pricing and preparing job bids.

Components: Laboratory, Lecture
Prerequisites/Corequisites: P or C: 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
Prerequisites/Corequisites: 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
Prerequisites/Corequisites: P: CHEMISTRY 1050, CHEMISTRY 1140, CHEMISTRY 1650 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 interpretation of soil test results.

Components: Laboratory, Lecture
Prerequisites/Corequisites: P: AGSCI 2230 and either CHEMISTRY 1050 or 1140

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
Prerequisites/Corequisites: P: AGSCI 1240 or BIOLOGY 1350 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, physi-
ology, crop production or crop chemicals.
Components: Independent Study
Prereqs/Coreqs: P: AGSCI 1240
AGSCI 3400 1 - 3 credits
Special Topics in Ornamental Horticulture
Discussion of contemporary topics relevant to the field of Orna-
mamental 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 4050 3 credits
Sheep and Wool Management
The principles and problems involved in sheep and wool production.
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 manage-
mental 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 monoga-
strics. 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
Farm Animal Reproduction
Covers basic anatomy, physiology and endocrinology for repro-
duction in cattle, swine, sheep, horses and poultry. Basic concepts
and principles will be integrated with reproduction management
including proper utilization of artificial insemination, estrous syn-
chronization and ova transplant.
Components: Laboratory, Lecture
Prereqs/Coreqs: P: BIOLOGY 1350 or 1450 or 1150
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 Offering: BIOLOGY 4130
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 1350 or 1450 or 1150
AGSCI 4190 2 credits
Seminar in Animal Science and Biotechnology
Preparation and presentation of oral and written reports on timely
topics involving commercial animal production and/or advance-
ments in biotechnology as they may apply to animal science.
Components: Seminar
Prereqs/Coreqs: P: senior or junior level standing 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  3 credits
**Plant Breeding Principles**
The basic methods and principles involved in field and horticultural crop improvement with emphasis on plant reproduction and pollination methods, selection schemes and gene action considerations. Major crop species will be emphasized.

*Components*: Lecture

*Prereqs/Coreqs*: P: AGSCI 1240 or BIOLOGY 1350 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 plantscapes, 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 4320  3 credits
**Forage Crops**
Plants that provide feed for domestic animals, particularly emphasizing the methods of production and management of grass and legume crops and the harvesting and processing of quality hay, pasturage and silage.

*Components*: Laboratory, 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: BIOLOGY 1350 or AGSCI 1240 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 4360  3 credits
**Crop Pesticides and Growth Regulators**
The properties and usage of insecticides, herbicides, fungicides, sterilants, nematicides, surfactants, desiccants, growth regulators and seed treatments. Environmental pollution and legal aspects are considered.

*Components*: Lecture

*Prereqs/Coreqs*: P: AGSCI 1240 or consent of instructor

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 4390  3 credits
**Resolving Agricultural Issues**
This course is designed to be a culminating learning experience. The course is interdisciplinary in nature. Each student will be required to use knowledge learned in prior courses across the curriculum and to research additional information to determine possible solutions to real issues and problems in agriculture. The course will require students to determine solutions together as a team.

*Components*: Lecture

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*: Lecture

*Prereqs/Coreqs*: P: BIOLOGY 3450, RECLAM 1010 or consent of instructor
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 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 planning 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 or consent of instructor
Purpose Statement

The 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 Biology Program prepares students for: advanced study and research in the biological and related sciences, healthcare professional programs, wildlife and forestry 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 the individual’s 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 Biology Department curriculum, students should:

Attitudes

1. appreciate science and especially biology. This appreciation should include how science and biology permeates our society and many other aspects of our lives.
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 “people” or 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 these 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 genera. 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**

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

**Required Biology Capstone Experience (1 credit):**

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

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

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

Students who expect to enter graduate or professional school should consider taking the following courses, beyond the requirements for the major that meet the needs of their respective interest areas:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>2640 Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY</td>
<td>3540/3510 Organic Chemistry I and Lab</td>
<td>5 cr</td>
</tr>
<tr>
<td>CHEMSTRY</td>
<td>3630/3610 Organic Chemistry II and Lab</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHEMSTRY</td>
<td>4630/4610 General Biochemistry and Lab</td>
<td>5 cr</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>1050 Principles of Physics</td>
<td>5 cr</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>1140/1110 Introductory Physics I</td>
<td>5 cr</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>1240/1210 Introductory Physics II</td>
<td>5 cr</td>
</tr>
<tr>
<td>PSYCHLGY</td>
<td>1130 General Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLOGY</td>
<td>1130 Principles of Sociology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHLSPHY</td>
<td>(Courses in Philosophy)</td>
<td></td>
</tr>
</tbody>
</table>

**PHYSICS**

**Biology Major**

(non-comprehensive/non-emphasis) (45 credits)

**Required Core Courses (31 credits):**

**Select 2 of the following (7-8 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY</td>
<td>2040 Cell Biology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>3240 Microbiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>3460 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).

**Required Core Courses (31 credits)**

**Emphases:**

**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</td>
<td>2040 Cell Biology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>3240 Microbiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>2140 Anatomy and Physiology I</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>2240 Anatomy and Physiology II</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>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</td>
<td>3040 Comparative Anatomy of Vertebrates</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>3120 Animal Tissue Culture</td>
<td>2 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>3140 Vertebrate Embryology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>3530 Biotechnology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>3620 Immunology</td>
<td>2 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>4040 Molecular Biology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>4130 Mammalian Endocrinology</td>
<td>3 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>4240 Advanced Physiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>4340 Mammalian Histology</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>4440 Human Gross Anatomy</td>
<td>4 cr</td>
</tr>
<tr>
<td>BIOLOGY</td>
<td>4520 Biotechnology Seminar</td>
<td>2 cr</td>
</tr>
</tbody>
</table>
Additional Required Supporting Courses (9 credits)
CHEMSTRY 3540/3510  Organic Chemistry I  5 cr
CHEMSTRY 4630/4610  Biochemistry  4 cr

Electives to complete the emphasis (3-4 credits):
Students may select any biology course above the 2000 level (except BIOLOGY 4010 Workshop in Biology).

Recommended Minors:
Chemistry
Biotechnology
Psychology
Math

Botany Emphasis (29 credits)
One course from (4 credits):
BIOLOGY 2040 Cell Biology  4 cr
or
BIOLOGY 3240 Microbiology  4 cr

At least four advanced plant-based courses (min. 14 cr) from:
BIOLOGY 2130 Plants and Society  3 cr
BIOLOGY 2450 Fungi, Algae and Bryophytes  4 cr
BIOLOGY 3550 Morphology and Evolution of Vascular Plants  4 cr
BIOLOGY 3640 Plant Systematics  4 cr
BIOLOGY 3650 Plant Communities of Wisconsin  4 cr
BIOLOGY 4150 Forensic Botany  4 cr
BIOLOGY 4530 Plant Pathology  4 cr
BIOLOGY 4920 Independent Research in Botany  1-3 cr

AGSCI 3210 Identification of Landscape Plants  3 cr
AGSCI 3220 Plant Development and Biotechnology  3 cr
AGSCI 4240 Plant Breeding Principles  3 cr
AGSCI 4340 Plant Physiology  3 cr

Approved Field Station course(s)

Broad-based biology course(s) (min. 3 cr), to be selected from:
BIOLOGY 2040 Cell Biology  4 cr
BIOLOGY 3460 Ecological Methods and Research  3 cr
BIOLOGY 3240 Microbiology  4 cr
BIOLOGY 3340 Molecular Biology  4 cr
BIOLOGY 3530 Biotechnology  2 cr
BIOLOGY 3750 Freshwater Biology  3 cr
BIOLOGY 4410 Topics in Biology  cr vary
BIOLOGY 4710 Selected Regional Habitats  cr vary

Approved Field Station course  cr vary

Supporting Courses (min. 8 cr), to be selected from:
CHEMSTRY 3540/3510  Organic Chemistry I and Lab  5 cr
CHEMSTRY 4630/4610  General Biochemistry and Lab  4 cr
AGSCI 2230 Soils  3 cr
GEOLOGY 1140 Physical Geology  4 cr
GEOLOGY 1240 Historical Geology  4 cr
GEOGRPHY 1040 Survey of Physical Geography  4 cr
GEOGRPHY 1140 Geomorphology  4 cr
GEOGRPHY 1240 Weather and Climate  4 cr
GEOGRPHY 1340 Biogeography  4 cr
GEOGRPHY 4120 Oceanography  4 cr

Approved Field Station course  cr vary

Recommended Minors:
Environmental Science
Chemistry
Ornamental Horticulture
Biotechnology
Geology

Cytotechnology Emphasis
Ninety-three semester credits at UW-Platteville are required before application to the professional phase of the program, including a minimum of 20 credits in biology and a minimum of 8 credits in chemistry. BIOLOGY 2140 or 2340 and 4340 are strongly recommended. If accepted into the program, the final 36 credits are earned at the School of Cytotechnology, State Laboratory of Hygiene, Madison, Wisconsin. Please contact the biology chair for further information.

Ecology Emphasis (32 credits)
Ecology Core Courses (7 credits):
BIOLOGY 3460 Ecological Methods and Research  3 cr
BIOLOGY 2040 Cell Biology  4 cr
or
BIOLOGY 3240 Microbiology  4 cr

Advanced Ecology Courses (3 credits):
BIOLOGY 3750 Freshwater Biology  3 cr
BIOLOGY 4710 Selected Regional Habitats  3 cr

Advanced Organismal, Identification or Research Courses (12 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 3640 Plant Systematics  4 cr
BIOLOGY 3650 Plant Communities of Wisconsin  4 cr
BIOLOGY 3660 Animal Communities of Wisconsin  4 cr
BIOLOGY 4530 Plant Pathology  3 cr
BIOLOGY 4410 Topics in Biology  1-3 cr
BIOLOGY 4660 Biology Internship Experience†  1-6 cr
BIOLOGY 3#### Independent Research in Biology†  1-3 cr

NOTE: Any of the courses above may also be taken at an accredited field station (ex. Pigeon Lake) with departmental approval.
No more than 4 credits of any combination of these courses can be applied to the required 12 credits.

* Course may not be offered at UWP

**Non-Biology Supporting Courses (min. 10 credits) from:**

- CHEMISTRY 3110 Environmental Chemistry Lab 1 cr
- CHEMISTRY 3130 Environmental Chemistry 3 cr
- CHEMISTRY 3510 Organic Chemistry Lab 1 cr
- CHEMISTRY 3540 Organic Chemistry 4 cr
- GEOGRAPHY 2230 Cartography and Graphics 3 cr
- GEOGRAPHY 3230 Geographic Information Systems 3 cr
- or
- RECLAM 3010 Current Topics in Reclamation* 2 cr
- CIVILENG 4630 Geographic Information Systems* 3 cr

* This option requires instructor consent for both courses

**Recommended Minors:**

- Environmental Science
- Geology
- Biotechnology
- Chemistry

**Molecular/Genetics Emphasis (32 credits)**

**Molecular/Genetics Core Courses (12 credits):**

- BIOLOGY 2040 Cell Biology 4 cr
- BIOLOGY 3240 Microbiology 4 cr
- BIOLOGY 4040 Molecular Biology 4 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 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 3 cr
- and Biotechnology
- 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 3540/3510 Organic Chemistry I and Lab 5 cr
- CHEMISTRY 4630/4610 Biochemistry 4 cr

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

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

**Recommended Minors:**

- Chemistry
- Biotechnology
- Biotechnology
- Criminal Justice

**Secondary Education Emphasis (20-24 credits)**

Note: Biology-Secondary Education majors must earn a minimum GPA of 2.75 in the major course work.

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

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

**One plant course (min. 3 credits) from:**

- BIOLOGY 2130 Plants and Society 3 cr
- BIOLOGY 2450 Fungi, Algae and Bryophytes 4 cr
- BIOLOGY 3550 Morphology and Evolution of Vascular Plants 4 cr
- BIOLOGY 3640 Plant Systematics 4 cr
- BIOLOGY 3650 Plant Communities of Wisconsin 4 cr
- AGSCI 3210 Identification of Landscape Plants 3 cr
- AGSCI 4340 Plant Physiology 4 cr
- An approved course at a field station – cr vary

**One advanced animal course (min. 3 credits) from:**

- BIOLOGY 2640 Invertebrate Zoology 4 cr
- BIOLOGY 3030 Ornithology 3 cr
- BIOLOGY 3040 Comparative Anatomy of Vertebrates 4 cr
- BIOLOGY 3140 Vertebrate Embryology 4 cr
- BIOLOGY 3340 Entomology 4 cr
- BIOLOGY 3230 Mammalogy 3 cr
- BIOLOGY 3660 Animal Communities of Wisconsin 3 cr
- BIOLOGY 4130 Mammalian Endocrinology 3 cr
BIOLOGY 4240 Advanced Physiology 4 cr
BIOLOGY 4340 Mammalian Histology 4 cr

An approved course at a field station - cr vary

One advanced broad-based biology course (min. 2 credits) from:

BIOLOGY 3460 Ecological Methods and Research 3 cr
BIOLOGY 3530 Biotechnology 3 cr
BIOLOGY 3750 Freshwater Biology 3 cr
BIOLOGY 4040 Molecular Biology 4 cr
BIOLOGY 4410 Topics in Biology 1-3 cr

(advisor approval required)

BIOLOGY 4710 Selected Regional Habitats 1-3 cr
BIOLOGY 4920 Independent Research in Biology 1-3 cr

Additional Required Supporting Courses (12 credits):

BIOLOGY 4410 Topics in Biology 1-3 cr
BIOLOGY 4660 Cooperative Field Experience 1-3 cr

BIOLOGY 4710 Selected Regional Habitats 1-3 cr
BIOLOGY 4920 Special Problems in Biology 1-3 cr

(No more than 6 credits of any combination of the above courses can be applied to the required 12 credits.)

AGSCI 1000 Introduction to Animal Science 3 cr
AGSCI 3000 Animal Nutrition 4 cr
AGSCI 3020 A & P of Domestic Animals 3 cr
AGSCI 3070 Biotechnology in Animal Science 3 cr
AGSCI 3120 Topics in Animal Health 3 cr
CHEMISTRY 3510 Organic Chemistry Laboratory 1 cr
CHEMISTRY 3540 Organic Chemistry Lecture 4 cr
GEOLOGY 1240 Historical Geology 4 cr
GEOGRAPHY 1040 Survey of Physical Geography 4 cr
GEOGRAPHY 1140 Geomorphology 4 cr
GEOGRAPHY 1330 Biogeography 4 cr
GEOGRAPHY 4120 Oceanography 4 cr

Biology Minor (24 credits)

Requirements (13 cr):

BIOLOGY 1650 Unity of Life 5 cr
BIOLOGY 1750 Diversity of Life 5 cr
BIOLOGY 3330 Genetics 3 cr

or

BIOLOGY 3450 Ecology and Evolution 3 cr

ELECTIVES TO COMPLETE THE MINOR (11 cr):

Students may select any biology course above the 2000 level (except BIOLOGY 4010, 4410, 4660 or 4920).

Biotechnology Minor (29 credits)

Requirements (12 credits):

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

or

AGSCI 3030 Genetics of Livestock Improvement 3 cr
BIOLOGY 3530 Biotechnology 3 cr
BIOLOGY 4520 Biotechnology Seminar 2 cr

Physiology co-requisite: Select 3-4 credits (credits do not count toward completion of the minor):

AGSCI 4340 Plant Physiology 3 cr
BIOLOGY 4240 Advanced Physiology 4 cr

or

BIOLOGY 4240 Anatomy and Physiology II 4 cr
BIOLOGY 2240 Anatomy and Physiology II 4 cr

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

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

Electives to complete minor: Select 7-10 credits:

AGSCI 3070 Biotechnology in Animal Science 3 cr
AGSCI 4110 Farm Animal Reproduction 4 cr

Additional Licensable Program (Required)

Biology-Secondary Education majors are required to earn an additional licensable degree. Although students are free to select any licensable major or minor offered at UWP, the Biology Department encourages students to pursue a science-related program to improve marketability. To this end, students may choose to minor in Physics, Chemistry or Environmental Science or double major in Chemistry or Broad Field Science.

Zoology Emphasis (33 credits)

One course (4 credits):

BIOLOGY 2040 Cell Biology 4 cr
or
BIOLOGY 3240 Microbiology 4 cr

Anatomy and Physiology Courses (8 credits):

BIOLOGY 2340 Essentials of Anatomy and Physiology 4 cr
and
BIOLOGY 3040 Comparative Anatomy 4 cr
or
BIOLOGY 2140 Anatomy and Physiology I 4 cr
and
BIOLOGY 2240 Anatomy and Physiology II 4 cr

Zoology Electives (9 credits):

BIOLOGY 2640 Invertebrate Zoology 4 cr
BIOLOGY 3030 Ornithology 3 cr
BIOLOGY 3120 Animal Tissue Culture 2 cr
BIOLOGY 3140 Vertebrate Embryology 4 cr
BIOLOGY 3230 Mammalogy 3 cr
BIOLOGY 3340 Entomology 4 cr
BIOLOGY 3620 Immunology 2 cr
BIOLOGY 4130 Mammalian Endocrinology 4 cr
BIOLOGY 4340 Mammalian Histology 4 cr
BIOLOGY xxxx Herpetology* 2 cr
BIOLOGY xxxx Ichthyology* cr vary

Approved Field Station Course(s) – cr vary

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

Additional Required Supporting Courses (12 credits):

BIOLOGY 4410 Topics in Biology 1-3 cr
BIOLOGY 4660 Cooperative Field Experience 1-3 cr

AGSCI 1000 Introduction to Animal Science 3 cr
AGSCI 3000 Animal Nutrition 4 cr
AGSCI 3020 A & P of Domestic Animals 3 cr
AGSCI 3070 Biotechnology in Animal Science 3 cr
AGSCI 3120 Topics in Animal Health 3 cr
CHEMISTRY 3510 Organic Chemistry Laboratory 1 cr
CHEMISTRY 3540 Organic Chemistry Lecture 4 cr
GEOLOGY 1240 Historical Geology 4 cr
GEOGRAPHY 1040 Survey of Physical Geography 4 cr
GEOGRAPHY 1140 Geomorphology 4 cr
GEOGRAPHY 1330 Biogeography 4 cr
GEOGRAPHY 4120 Oceanography 4 cr

Zoology Emphasis (33 credits)

One course (4 credits):

BIOLOGY 2040 Cell Biology 4 cr
or
BIOLOGY 3240 Microbiology 4 cr

Anatomy and Physiology Courses (8 credits):

BIOLOGY 2340 Essentials of Anatomy and Physiology 4 cr
and
BIOLOGY 3040 Comparative Anatomy 4 cr
or
BIOLOGY 2140 Anatomy and Physiology I 4 cr
and
BIOLOGY 2240 Anatomy and Physiology II 4 cr

Zoology Electives (9 credits):

BIOLOGY 2640 Invertebrate Zoology 4 cr
BIOLOGY 3030 Ornithology 3 cr
BIOLOGY 3120 Animal Tissue Culture 2 cr
BIOLOGY 3140 Vertebrate Embryology 4 cr
BIOLOGY 3230 Mammalogy 3 cr
BIOLOGY 3340 Entomology 4 cr
BIOLOGY 3620 Immunology 2 cr
BIOLOGY 4130 Mammalian Endocrinology 4 cr
BIOLOGY 4340 Mammalian Histology 4 cr
BIOLOGY xxxx Herpetology* 2 cr
BIOLOGY xxxx Ichthyology* cr vary

Approved Field Station Course(s) – cr vary

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

Additional Required Supporting Courses (12 credits):

BIOLOGY 4410 Topics in Biology 1-3 cr
BIOLOGY 4660 Cooperative Field Experience 1-3 cr

AGSCI 1000 Introduction to Animal Science 3 cr
AGSCI 3000 Animal Nutrition 4 cr
AGSCI 3020 A & P of Domestic Animals 3 cr
AGSCI 3070 Biotechnology in Animal Science 3 cr
AGSCI 3120 Topics in Animal Health 3 cr
CHEMISTRY 3510 Organic Chemistry Laboratory 1 cr
CHEMISTRY 3540 Organic Chemistry Lecture 4 cr
GEOLOGY 1240 Historical Geology 4 cr
GEOGRAPHY 1040 Survey of Physical Geography 4 cr
GEOGRAPHY 1140 Geomorphology 4 cr
GEOGRAPHY 1330 Biogeography 4 cr
GEOGRAPHY 4120 Oceanography 4 cr

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

Up to 3 credits may be selected from:
AGSCI 3370 Special Problems in Plant Biotechnology 1-3 cr
BIOLOGY 4410 Topics in Biology (applicable to Biotechnology) 1-3 cr
BIOLOGY 4920 Independent Research in Biology 1-3 cr

NOTE: Elective Courses have individual pre-requisites that may not be listed above.

Pre-Professional Programs
The following pre-professional programs are administered and advised through the Biology Department:

Pre-Chiropractic
Wayne Weber
249 Gardner
608-342-1611

Pre-Cytotechnology
Esther Ofulue
250 Gardner
608-342-1331

Pre-Dentistry
Wayne Weber
249 Gardner
608-342-1611

Pre-Medical Technology
Esther Ofulue
250 Gardner
608-342-1331

Pre-Nursing
Amanda Trewin
255 Gardner
608-342-1527

Pre-Physician Assistant
Wayne Weber
249 Gardner
608-342-1611

Pre-Podiatry
Amanda Trewin
255 Gardner
608-342-1527

Pre-Occupational Therapy
Marilyn Tufte
253 Gardner
608-342-1664

Pre-Optometry
Wayne Weber
249 Gardner
608-342-1611

Pre-Osteopathy
Amanda Trewin
255 Gardner
608-342-1527

Pre-Physical Therapy
Marilyn Tufte
253 Gardner
608-342-1664

Biology Courses
BIOLOGY 1020 BioQuest: Foundations for College Success 1 credit
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.

Prerequisites: Biology major
Components: Lecture
Lecture hrs: 2 (8 week course)
When: Fall, Spring

The descriptions of these programs are listed under the Special Academic Programs section. Program fact sheets are available in the Biology Department Office or from the department chair.
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: Discussion, Laboratory, Lecture
Lab hrs: 3 (includes 1 hour discussion and 2 hours lab)
Lecture hrs: 3
When: Fall, Spring
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. Not required nor counted toward a major or a minor in biology.
Components: Discussion, Laboratory, Lecture
Lab hrs: 3 (includes 1 hour discussion and 2 hours lab)
Lecture hrs: 3
When: Fall, Spring
GE: Natural Science

BIOLOGY 1650  5 credits
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 multicellular plants and animals.
Prerequisites: Biology or related major and/or students wanting an in-depth study of biology
Components: Laboratory, Lecture
Lab hrs: 3 (includes 1 hour discussion and 2 hours lab)
Lecture hrs: 3
When: Fall, Spring
GE: Natural Science ONLY when taken with the accompanying BIOLOGY 1750 for a total of 5 Natural Science GE credits for the 2 courses

BIOLOGY 1750  5 credits
Diversity of Life
In this course the ecological and evolutionary connections between all living organisms will be explored and the following questions will be addressed: 1) Why are there so many species and how did there get to be so many? 2) How does fitness unify and diversify life? 3) How do organisms reproduce? and 4) What is the biological future of life? Organismal through ecosystem level processes will be explored.
Prerequisites: Biology or related major
Components: Laboratory, Lecture
Lab hrs: 3 (includes 1 hour discussion and 2 hours lab)
Lecture hrs: 3
When: Fall, Spring
GE: Natural Science ONLY when taken with the accompanying BIOLOGY 1750 for a total of 5 Natural Science GE credits for the 2 courses

BIOLOGY 2040  4 credits
Cell Biology
Organization of cells and their components; analysis of light and electron microscopy of cytoplasmic and nuclear components of the cell and their relation to heredity, physiology, reproduction and development.
Prerequisites: BIOLOGY 1650 and 1 semester of chemistry
Components: Laboratory, Lecture
Lab hrs: 2
Lecture hrs: 3
When: Fall, Spring

BIOLOGY 2130  3 credits
Plants and Society
A global exploration of plants and their uses by humans from historical, cultural, economic and botanical perspectives.
Prerequisites: BIOLOGY 1150 or BIOLOGY 1350 or BIOLOGY 1650 or BIOLOGY 1750
Components: Lecture
Lecture hrs: 3
When: Spring, even years
GE: International Education

BIOLOGY 2140  4 credits
Anatomy and Physiology I
Designed as a two-semester sequence, this course explores the structure (anatomy) and function (physiology) of the human body from a systematic approach. In addition to introductory materials, this semester includes study of the integumentary, skeletal, muscular and nervous systems. Throughout the semester, systems will be analyzed at the molecular, cellular, tissue, organ and organ system levels.
Prerequisites: BIOLOGY 1650 or consent of instructor
Components: Laboratory, Lecture
Lab hrs: 2
Lecture hrs: 3
When: Fall
GE: Natural Science

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.
Prerequisites: BIOLOGY 2140 (grade of C or better required)
Components: Laboratory, Lecture
Lab hrs: 2
Lecture hrs: 3
When: Spring
GE: Natural Science
BIOLOGY 2340  4 credits
Essentials of Anatomy and Physiology
As a one semester offering, this course is designed to cover the essentials of human anatomy and physiology. It will serve as a basic introduction to the study of the complex interdependence of structure and function from a systematic approach. All primary body systems will be addressed.
Components: Laboratory, Lecture
Lab hrs: 2
Lecture hrs: 3
When: Fall, Spring
GE: Natural Science

BIOLOGY 2420  2 credits
FBI: 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.
Prerequisites: BIOLOGY 1020, BIOLOGY 1650, BIOLOGY 1750, ENGLISH 1130 and ENGLISH 1230
Components: Laboratory, Lecture
Lab hrs: 2
Lecture hrs: 1
When: Fall, Spring

BIOLOGY 2450  4 credits
Fungi, Algae and Bryophytes
This course covers the major groups of living algae, fungi, fungal-like protists and bryophytes. Although classic concepts of taxonomy, evolution, morphology and ecological and economic importances will be included in this diversity survey course, the material will be presented from a community ecology approach: which organisms would be located in a particular environment and why? Lectures will be standard lecture as well as discussion format. Labs will include a variety of essential techniques for studying these diverse organisms, such as microscopy, use of identification keys, field sampling, collection/processing and culturing.
Prerequisites/Relqs/Coreqs: P: BIOLOGY 1350 or both BIOLOGY 1650 and BIOLOGY 1750 or equivalent; G: speech class; Recommended: BIOLOGY 3450
Components: Laboratory, Lecture
Lab hrs: 3
Lecture hrs: 2
When: Fall, odd years

BIOLOGY 2640  4 credits
Invertebrate Zoology
Systematic survey of the invertebrates. Both representative and diverse forms will be studied within each group. Includes animal microtechnique procedures.
Prerequisites: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor
Components: Laboratory, Lecture
Lab hrs: 2
Lecture hrs: 3
When: Spring, even years

BIOLOGY 3030  3 credits
Ornithology
Anatomy, physiology, life histories and environmental relationships of birds. Laboratory study and field trips.
Prerequisites: BIOLOGY 1750 and BIOLOGY 2420
Components: Laboratory, Lecture
Lab hrs: 2
Lecture hrs: 3
When: Spring, odd years

BIOLOGY 3040  4 credits
Comparative Anatomy of the Vertebrates
Comparative studies of organs and systems of Vertebrata; includes laboratory dissections of shark, necturus and cat.
Prerequisites: BIOLOGY 2140/2240 or BIOLOGY 2340 or consent of instructor
Components: Laboratory, Lecture
Lab hrs: 2
Lecture hrs: 4
When: Fall, odd years

BIOLOGY 3120  2 credits
Animal Tissue Culture
Preparation of equipment and environment; growth and maintenance; media considerations; various types of culture methods; applications.
Prerequisites: One college level biology and chemistry course or consent of instructor
Components: Laboratory, Lecture
Lab hrs: 2
Lecture hrs: 1
When: Spring

BIOLOGY 3140  4 credits
Vertebrate Embryology
Lecture and laboratory study of amphibian, avian and mammalian embryology.
Prerequisites: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor
Components: Laboratory, Lecture
Lab hrs: 3
Lecture hrs: 3
When: Fall, odd years

BIOLOGY 3230  3 credits
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.
Prerequisites: BIOLOGY 1750 and BIOLOGY 2420
Components: Laboratory, Lecture
Lab hrs: 3
Lecture hrs: 2
When: Fall
BIOLOGY 3240  4 credits
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.
Prerequisites: BIOLOGY 1650 or BIOLOGY 1750 and CHEMISTRY 1140 or consent of instructor
Components: Laboratory, Lecture
Lab hrs: 3
Lecture hrs: 3
When: Fall, Spring

BIOLOGY 3330  3 credits
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.
Prerequisites: BIOLOGY 1650 or consent of instructor
Components: Lecture
Lecture hrs: 3
When: Fall, Spring

BIOLOGY 3340  4 credits
Entomology
Structure, classification, life histories, behavior and economic aspects of insects. An insect collection is required. See instructor for insect collection by May 1.
Prerequisites: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor
Components: Laboratory, Lecture
Lab hrs: 4
Lecture hrs: 2
When: Fall, odd years

BIOLOGY 3450  3 credits
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.
Prerequisites: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor
Components: Lecture
Lecture hrs: 3
When: Fall, Spring

BIOLOGY 3460  3 credits
Ecological Methods and Research
This class supplements BIOLOGY 3450 Ecology and Evolution and further explores the major principles, techniques, and approaches in ecology. This course will explore ecology in the field and laboratory with the goal of enabling students to plan, execute and scrutinize ecological research and appreciate how science and research fit into ecology.
Prereqs/Coreqs: P: BIOLOGY 1650, BIOLOGY 1750, BIOLOGY 2420 C: BIOLOGY 3450 or consent of instructor
Components: Laboratory, Lecture
Lab hrs: 2
Lecture hrs: 2
When: Fall

BIOLOGY 3530  3 credits
Biotechnology
Genetic elements that control gene expression. Procedures for creating and isolating cloned genes. Genetic engineering and uses of recombinant DNA.
Prerequisites: One college level biology and chemistry course or consent of instructor
Components: Laboratory, Lecture
Lab hrs: 2
Lecture hrs: 2
When: Fall

BIOLOGY 3550  4 credits
Morphology and Evolution of Vascular Plants
This broad course covers the structure or form (morphology) of the adult plant, its tissues, development and reproductive details, as well as the ecology, evolutionary history and taxonomy of the group in which it is classified. Focus will be given to all phyla of extant vascular plants and major groups of extinct vascular plants, presenting the organisms from an evolutionary perspective.
Prerequisites: BIOLOGY 1350 or both BIOLOGY 1650 and BIOLOGY 1750
Components: Laboratory, Lecture
Lab hrs: 3
Lecture hrs: 3
When: Fall, even years

BIOLOGY 3620  2 credits
Immunology
The basic concepts of immunology. The normal and abnormal immune response.
Prerequisites: One college level biology and chemistry course
Components: Lecture
Lecture hrs: 2
When: Spring

BIOLOGY 3640  4 credits
Plant Systematics
Principles and practice of plant systematics, including history, nomenclature, specimen collection and archival techniques, modern systematic methods and survey of major plant families. Field collection required.
Prerequisites: BIOLOGY 1650 and BIOLOGY 1750
Components: Lecture, Laboratory
Lab hrs: 4
Lecture hrs: 3
When: Fall, even years

BIOLOGY 3650  4 credits
Plant Communities of Wisconsin
This course provides an introduction to the major plant communities of Wisconsin and neighboring states. It emphasizes the identification, biogeographic distribution, interrelationships, conservation and management of the major regional plant communities as well as their key plant species. Two extended weekend field trips are required.
Prerequisites: BIOLOGY 1650/1750 or BIOLOGY 1350 and BIOLOGY 3450 or BIOLOGY 3460 or consent of instructor
Components: Laboratory, Lecture
Lab hrs: 3
Lecture hrs: 2
When: Fall
BIOLOGY 3660  3 credits
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.
Prerequisites: BIOLOGY 1750
Components: Laboratory, Lecture
Lab hrs: 3
Lecture hrs: 2
When: Spring

BIOLOGY 3750  3 credits
Freshwater Biology
Examination of the physical components and biological communities of lakes, streams and wetlands and the relationships between them. Integration of fieldwork, scientific literature and laboratory analyses.
Prerequisites: BIOLOGY 1750, BIOLOGY 2420, CHEMISTRY 1050 or CHEMISTRY 1140 or consent of instructor. BIOLOGY 3450 Recommended.
Components: Laboratory, Lecture
Lab hrs: 3
Lecture hrs: 2
When: Fall, even years

BIOLOGY 4010  1 credit
Workshop in Biology
Varying topics. Does not count toward major or minor in Biology or minor in Biotechnology.
Components: Lecture

BIOLOGY 4040  5 credits
Molecular Biology
Detailed structural analysis of the biological molecules DNA, RNA and proteins in relation to cellular processes. Exploration of experimental approaches that explain the molecular basis for all life activities.
Prerequisites: BIOLOGY 2420, BIOLOGY 2040, BIOLOGY 3330 and one semester of Chemistry or consent of instructor
Components: Discussion, Laboratory, Lecture
Lab hrs: 3
Lecture hrs: 3
When: Spring

BIOLOGY 4130  3 credits
Mammalian Endocrinology
The structural and functional classification of hormones, principles of hormone action and the regulation of body functions by the endocrine system with emphasis on homeostasis.
Prerequisites: BIOLOGY 1650 or AGSCI 4110 and CHEMISTRY 1240 or consent of instructor
Components: Lecture
Lecture hrs: 3
When: Spring, odd years

BIOLOGY 4150  4 credits
Forensic Botany
A survey of the structures of plants, fungi and algae that can be used as botanical evidence in criminal investigation. Discussion of current literature, legal issues and future trends. Laboratory includes microtechnique, sample collection and preservation techniques, and testing methods.
Prerequisites: BIOLOGY 1350 or both BIOLOGY 1650 and BIOLOGY 1750; Recommended: BIOLOGY 2450, BIOLOGY 3550 or BIOLOGY 3640
Components: Laboratory, Lecture
Lab hrs: 3
Lecture hrs: 2
When: Fall, odd years

BIOLOGY 4240  4 credits
Advanced Physiology
In-depth study of physiologic processes from the molecular to organismic level. Approached from a topical format, emphasizing recent advancements.
Prerequisites: BIOLOGY 2140/2240 or BIOLOGY 2340 and BIOLOGY 2420 and CHEMISTRY 1240 or consent of instructor
Components: Laboratory, Lecture
Lab hrs: 3
Lecture hrs: 3
When: Fall, even years

BIOLOGY 4340  4 credits
Mammalian Histology
The organization of cells and their products to form tissues and organs; morphological and functional comparisons of tissue organization of representatives from the class Mammalia.
Prerequisites: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor
Components: Laboratory, Lecture
Lab hrs: 4
Lecture hrs: 2
When: Fall, even years

BIOLOGY 4410  1 - 3 credits
Topics in Biology
Presentations of biological topics
Prerequisites: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor. Up to 2 credits can be counted toward a biology major.
Components: Laboratory, Lecture
When: variable semesters

BIOLOGY 4440  4 credits
Human Gross Anatomy
There is nothing more fascinating than learning about the human body. Its structure, organization and physiology are of interest from a personal health and clinical standpoint. This course will provide the opportunity for advanced students to engage in an intense study of human gross anatomy. This course will have a significant lab component where students will apply concepts of anatomy and physiology to the prospected human cadaver.
Prerequisites: BIOLOGY 2140 and 2240 or BIOLOGY 2340 or consent of instructor
Components: Laboratory, Lecture
Lab hrs: 3
Lecture hrs: 2
When: Fall, odd years

BIOLOGY 4440  4 credits
Human Gross Anatomy
There is nothing more fascinating than learning about the human body. Its structure, organization and physiology are of interest from a personal health and clinical standpoint. This course will provide the opportunity for advanced students to engage in an intense study of human gross anatomy. This course will have a significant lab component where students will apply concepts of anatomy and physiology to the prospected human cadaver.
Prerequisites: BIOLOGY 2140 and 2240 or BIOLOGY 2340 or consent of instructor
Components: Laboratory, Lecture
Lab hrs: 3
Lecture hrs: 2
When: Fall, odd years
BIOLOGY 4520  2 credits
Biotechnology Seminar
Selected topics from among recent advances in biotechnology
Prerequisites: BIOLOGY 3530 or consent of instructor
Components: Seminar
When: Spring

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.
Prereqs/Coreqs: P: BIOLOGY 1350 or both BIOLOGY 1650/1750 and at least one additional 2000+ level biology or plant-related course or consent of instructor C: Junior standing
Components: Laboratory, Lecture
Lab hrs: 2
Lecture hrs: 2
When: Spring

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 and/or internships
When: Variable semesters

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 3 credits can be counted toward a biology major.
Prerequisites: BIOLOGY 1650 and BIOLOGY 1750 or consent of instructor
Components: Field Studies
When: Variable semesters

BIOLOGY 4920  1 - 3 credits
Independent Research in Biology
Individual specialized study.
Prerequisites: Approval of the biology department chairperson and faculty advisor before registration. Up to 2 credits can be counted toward a Biology major. Junior or senior standing.
Components: Independent Research
When: Variable semesters

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.
Prerequisites: Biology major with senior standing; BIOLOGY 4920
Components: Independent Research
When: Variable semesters

BIOLOGY 4990  1 credit
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.
Prerequisites: Biology major with senior standing
Components: Lecture
When: Fall, Spring
About the Department and Major

The 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 (SAM), the Society for Human Resource Management (SHRM), and Phi Beta Lambda (PBL). Go to http://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 (CMA) examination and, after completion of 150 hours of college credit, the certified public accountant (CPA) examination.

Internships that have the prior approval of either the department internship coordinator or chairperson are required for Business Administration majors and are strongly encouraged for 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.

Statement of Mission - Department of Business and Accounting

The 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 work place 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; and
• provide service in our areas of expertise to businesses and non-profit organizations in the local community, region and state and involve our students in such endeavors.

Desired Student Outcomes - Business Administration

Students who earn a B.S. in Business Administration from the University of Wisconsin-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; and
8. have had experiences that cultivate or enhance an entrepreneurial spirit.

Desired Student Outcomes - Accounting

Students who earn a B.S. in Accounting from the University of Wisconsin-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: http://www.uwplatt.edu/disted

The department offers a Bachelor of Science degree in Business Administration at a distance. The program allows adults to balance work and personal commitments with their educational goals. The degree delivered at a distance 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 their 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. For further information go to http://www.uwplatt.edu/disted/degrees/bsad/index.html or call our toll free number 1-800-362-5460.

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 (CIAs). 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; or
• Completing a Master of Business Administration degree after graduation as a part - or full-time student.

Required Core Courses (51 credits):

ACCTING 2010 Financial Accounting 3 cr
ACCTING 2020 Management Accounting 3 cr
ACCTING 3010 Intermediate Accounting I 3 cr
ACCTING 4990 Internship 3 cr
or
BUSADMIN 4990 Internship 3 cr
BUSADMIN 1200 Introduction to American Business 3 cr

Enterprise

or

BUSADMIN 1300 Global Business 3 cr
(Meets GE international requirement)
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  3 cr
ECONOMIC 2230  Principles of Microeconomics  3 cr

(ECONOMIC 2130 and 2230 may be counted towards the social science requirements)

ECONOMIC 2410  Interpretation of Business and Economic Data  3 cr

Required Accounting Courses (27 credits):
ACCTING 3020 Intermediate Accounting  3 cr
ACCTING 3040 Federal Income Tax  3 cr
ACCTING 3050 Advanced Accounting  3 cr
ACCTING 3230 Cost Accounting  3 cr
ACCTING 4040 Advanced Taxation  3 cr
ACCTING 4130 Advanced Cost Accounting  3 cr
ACCTING 4230 Auditing  3 cr

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

Mathematics requirement:
MATH 2630 Calculus with Applications  3 cr or above

Additional requirements:
- At least 40 percent of a student's total credits at UW-Platteville must be in areas outside of accounting and business.
- Students must have GPAs of 2.50 or better in accounting and business courses to graduate in the major.
- Satisfactory completion of an approved accounting or business internship is required.

Business Administration Major

The major includes required courses in the core and completion of an emphasis area. An internship is also required to complete the major.

Required Core Courses (45 credits):
BUSADMIN 1300 Global Business  3 cr
(Meets international requirement in general education)
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 3620 Financial Management  3 cr
BUSADMIN 4840 Business Policy/Strategy  3 cr
ACCTING 2010 Financial Accounting  3 cr
ACCTING 2020 Management Accounting  3 cr
ACCTING 3000 Accounting Issues for Managers  3 cr
ACCTING 3010 Intermediate Accounting  3 cr
ACCTING 3230 Cost Accounting  3 cr
COMMNCTN 3010 Business Communication  3 cr
COMPUTER 1830 Microcomputer Applications  3 cr
ECONOMIC 2130 Principles of Macroeconomics  3 cr
(Meets social science credits in general education)

ECONOMIC 2230 Principles of Microeconomics  3 cr
(Meets social science credits in general education)
ECONOMIC 2410 Interpretation of Business and Economic Data  3 cr

Note: An internship may be used to fulfill an elective requirement in any emphasis area except Applied Management, Computer Science or Food Marketing.

Finance Emphasis (15 credits)

Required Courses (6 credits):
BUSADMIN 3930 Investments  3 cr
BUSADMIN 4030 Financial Decision Making  3 cr

Electives (9 credits):
AGINDUS 3530 Agricultural Commodity Marketing 3 cr
BUSADMIN 3140 Managerial Law  3 cr
BUSADMIN 3150 Principles of Real Estate  3 cr
BUSADMIN 3400 Personal Financial Planning  3 cr
BUSADMIN 3430 Risk Management  3 cr
BUSADMIN 3640 Financial Systems Analysis  3 cr
BUSADMIN 4130 Security Analysis  3 cr
BUSADMIN 4990 Internship in Finance  3 cr
ECONOMIC 3730 Money and Banking  3 cr

Food Marketing Emphasis (15 credits)

Required (9 credits):
BUSADMIN 3740 Consumer Behavior  3 cr
BUSADMIN 4990 Internship  3 cr
(or AGINDUS 4580 Agricultural Business Internship 3 cr
AGSCI 2030 Introduction to Food Science  3 cr
(Meets GE Gender and Race requirement)

Electives (6 credits):
One course from:
BUSADMIN 3120 Retailing  3 cr
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 3330 Labor Law  3 cr
BUSADMIN 3340 Management, Gender and Race  3 cr
(Meets GE Gender and Race requirement)
BUSADMIN 3450 Employment Law  3 cr
BUSADMIN 3540 Quality Management  3 cr
BUSADMIN 4330 Labor Management Relations  3 cr
BUSADMIN 4990 Internship in Human Resource Management  3 cr
ECONOMIC 3430 Labor Economics  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 4110 Management Science 3 cr
BUSADMIN 4120 Operations Management 3 cr
BUSADMIN 4140 International Management 3 cr
BUSADMIN 4990 Internship in 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. An internship in BUSADMIN 4990 may be used to satisfy elective requirements in either option A or B below.

(A) Advertising and Promotion
BUSADMIN 3110 Integrated Marketing 3 cr
BUSADMIN 3120 Retailing 3 cr
BUSADMIN 3630 Advertising (required) 3 cr
BUSADMIN 3720 International Marketing 3 cr
BUSADMIN 3740 Consumer Behavior 3 cr
COMMCTN 2360 Public Relations Principles 3 cr
COMMCTN 3920 Promotional Techniques 3 cr

(B) Sales Techniques
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
Required Courses:
BUSADMIN 3530 Organizational Behavior 3 cr
or
BUSADMIN 3540 Quality Management 3 cr
BUSADMIN 4110 Management Science 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
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 3030 International Relations 3 cr
12-credit Study Abroad experience which includes 6 credits of pre-approved business courses. (Consult with department chair.)

General Business (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; BUSADMIN 4990 (Internship) cannot be used.

Additional Requirements:
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 GPAs of 2.25 in all courses required for the Business Administration major.
3. Students majoring in business administration must complete BUSADMIN 4990 for 3 credits. If a student taking an internship from another department wishes it to fulfill the 3 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.

Minors
Accounting Minor (24 credits)
Required Courses:
ACCTING 2010 Financial Accounting 3 cr
ACCTING 2020 Management Accounting 3 cr
ACCTING 3010 Intermediate Accounting I 3 cr
Business Administration Minor (24 Credits)

**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)

**Required Courses:**
- BUSADMIN 2630 Introduction to Marketing 3 cr  
  or
- AGINDUS 2430 Agricultural Marketing 3 cr
- AGSCI 2030 Introduction to Food Service 3 cr
- BUSADMIN 3740 Consumer Behavior 3 cr
- BUSADMIN 4990 Internship 3 cr  
  (In food related area)
  or
- AGINDUS 4580 Internship 3 cr  
  (In food related area)

**Electives (12 credits):**
- BUSADMIN 3120 Retailing 3 cr
- BUSADMIN 3530 Organizational Behavior 3 cr
- BUSADMIN 3540 Quality Management 3 cr
- BUSADMIN 3630 Advertising 3 cr
- BUSADMIN 3820 Professional Selling 3 cr  
  or
- AGINDUS 3410 Agricultural Consulting and Sales 3 cr
- BUSADMIN 4630 Marketing Management 3 cr  
  or
- AGINDUS 4330 Agribusiness Marketing 3 cr
- AGINDUS 2500 Producer and Consumer Cooperatives 3 cr  
  or
- AGSCI 3040 Principles of Meat Science 3 cr
- AGSCI 3010 Dairy Product Analysis and Processing 3 cr
- AGSCI 3300 Fruit and Vegetable Production 3 cr
- COMMNCTN 3010 Business Communication 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 University of Wisconsin-Platteville faculty. Transferred courses and course substitutions are not allowed.
- It shall be the student’s responsibility to request a certificate from the department within one year upon completion of the final course in the certificate.

**Human Resource Management Certificate (9 credits)**
- BUSADMIN 3030 Human Resource Management 3 cr
- BUSADMIN 3100 Compensation Management 3 cr
- BUSADMIN 4200 Employee Recruitment and Selection 3 cr

**International Business Certificate (9 credits)**
- BUSADMIN 1300 Global Business 3 cr
- BUSADMIN 3650/5650 International Financial Management 3 cr  
  (online)
- BUSADMIN 3720/5720 International Marketing 3 cr

**Leadership and Human Performance Certificate (9 credits)**
- BUSADMIN 2330 Leadership and Management 3 cr
- BUSADMIN 3530 Organizational Behavior 3 cr
- BUSADMIN 3540 Quality Management 3 cr

**Marketing (9 credits)**
- BUSADMIN 2630 Introduction to Marketing 3 cr  
  and either
- BUSADMIN 4630 Marketing Management 3 cr
  or
- BUSADMIN 3740 Consumer Behavior 3 cr  
  or
- BUSADMIN 3120 Retailing 3 cr

**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 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 3010

ACCTING 3030 3 credits
**Accounting Information Systems**
Concepts of systems evaluation and design, with emphasis on the role of the accounting information system in providing relevant and reliable information for management decision making and financial reporting. Controls against errors and fraud are emphasized, as is the impact of technology. Students will do a term project examining and critiquing the accounting information system of a real company or non-profit organization.

Components: Lecture
Prereqs/Coreqs: P: COMPUTER 1830 and grade of “C” or better in ACCTING 2020

ACCTING 3040 3 credits
**Federal Income Tax**
Survey and practical application of federal income tax regulations and court rulings to individuals and sole proprietorships.

Components: Lecture
Prereqs/Coreqs: P: grade of “C” or better in ACCTING 2010

ACCTING 3050 3 credits
**Advanced Accounting I**
An in-depth coverage of business acquisitions and preparation of consolidated financial statements, plus coverage of foreign currency accounting and governmental accounting.

Components: Lecture
Prereqs/Coreqs: P: grade of “C” or better in ACCTING 3020

ACCTING 3230 3 credits
**Cost Accounting**
Cost accounting systems for product costing along with accumulation of costs and their usage; application of accounting information for planning and control.

Components: Lecture
Prereqs/Coreqs: P: COMPUTER 1830 and grade of “C” or better in ACCTING 2020

ACCTING 3530 3 credits
**Budgets and Budgetary Control**
Theory and procedure of financial and operating budgets for managerial planning and controls.

Components: Lecture
Prereqs/Coreqs: P: grade of “C” or better in ACCTING 3230

ACCTING 4040 3 credits
**Advanced Taxation**
A continuation of ACCTING 3040, covering advanced property transactions, special tax computations, corporations, partnerships, S corporations and estate and gift taxation.

Components: Lecture
Prereqs/Coreqs: P: grade of “C” or better in ACCTING 3040

ACCTING 4130 3 credits
**Advanced Cost Accounting**
A continuation of ACCTING 3230. Emphasis on usage of accounting information in making decisions and performance evaluations; allocation of costs for different purposes; application of quantitative methods in accounting.

Components: Lecture
Prereqs/Coreqs: P: grade of “C” or better in ACCTING 3230

ACCTING 4230 3 credits
**Auditing I**
Standards and procedures of external auditing, including a simulated audit. Also emphasizes the auditor’s decision-making process.

Components: Lecture
Prereqs/Coreqs: P: grade of “C” or better in ACCTING 3020

ACCTING 4240 3 credits
**Auditing II**
Concepts, procedures and auditor judgment in the areas of internal auditing and auditing for fraud. Also includes several advanced topics of external auditing.

Components: Lecture
Prereqs/Coreqs: P: Grade of “C” or better in ACCTING 4230

ACCTING 4520 3 credits
**Accounting Theory**
A survey of the theory underlying financial accounting, the accounting standards setting environment, proposed alternate accounting practices and current accounting issues and trends.

Components: Lecture
Prereqs/Coreqs: P: grade of “C” or better in ACCTING 3020

ACCTING 4940 1-4 credits
**Special Problems**
Supervised study of selected accounting topics.

Components: Independent Study
Prereqs/Coreqs: Junior standing
BUSINESS ADMINISTRATION COURSES

BUSADMIN 1200 3 credits
Introduction to American Business Enterprise
A survey of the fundamentals of business including business formation and entrepreneurship, marketing, management, production, accounting and finance and the basic terms and concepts of economics.

Components: Lecture

BUSSADMIN 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

BUSSADMIN 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

BUSSADMIN 2630 3 credits
Introduction to Marketing
The study of marketing encompasses the activities involved in anticipating, managing and satisfying demand via the exchange process. Activities include environmental analysis, marketing research, consumer analysis, product planning, distribution planning, promotion planning, price planning, and marketing management. The dynamic nature of marketing, the complex environment surrounding today's marketers, and various marketing functions, performers and strategies are examined.

Components: Lecture

BUSSADMIN 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

BUSSADMIN 3030 3 credits
Human Resource Management
An introduction to topics such as human resource planning, equal employment opportunity, selection, training and development, performance appraisal, compensation, safety and health and employee and labor relations. The impact of laws and of societal and business trends on human resource functions is presented. Each manager's role in dealing with human resources is emphasized.

Components: Lecture

Prereqs/Coreqs: P: BUSADMIN 2330 or AGINDUS 1500

BUSSADMIN 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

BUSSADMIN 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

BUSSADMIN 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

BUSSADMIN 3130 3 credits
The Legal Environment of Business
This is a study of the legal and ethical environment of business and its effects on business decisions. The course includes the substantive areas of contract law, tort, criminal law, government regulation, employment law, consumer protection, antitrust, environmental law and securities law. We will also examine the ethical implications of legal disputes in business.

Components: Lecture

BUSSADMIN 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

BUSSADMIN 3150 3 credits
Principles of Real Estate
Classification and acquisition of property rights, types of estates in property, relation of landlord and tenancy, conveyancing, liens and mortgages, real estate brokerage.

Components: 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 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 and Race
This course reviews the changing nature of management and explains why gender and race/ethnicity have become important concerns of business. It examines the status of women and people of color in managerial or administrative positions and discusses socialization processes, stereotypes, equal employment opportunity laws, diversity management, illegal harassment and power in organizations. Networking, mentoring, work/life balance and career planning also are addressed.
Components: Lecture
Cross Offering: WOMSTD 3340
GE: Ethnic and Gender
Prereqs/Coreqs: P: BUSADMIN 2330 or AGINDUS 1500 or junior standing

BUSADMIN 3400 3 credits
Personal Financial Planning
A study of the major financial decisions encountered by individuals. The course explores a variety of consumer problems found in a modern, complex economy. Subjects covered include the financial planning process, money management, consumer borrowing, insurance planning, budgeting, investments, and retirement and estate planning.
Components: Lecture
Prereqs/Coreqs: P: Junior standing or consent of instructor

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: P: BUSADMIN 1200 or BUSADMIN 1300

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 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: 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: grade of “C” or better in ACCTING 2010 and completion of university math requirements.

BUSADMIN 3630 3 credits
Advertising
Advertising as a selling and communications tool; its place in the modern economy; its procedures, methods and development functions.
Components: Lecture
Prereqs/Coreqs: P: BUSADMIN 2630 or AGINDUS 2430
BUSADMIN 3640  3 credits

**Financial Systems Analysis**
A macro-finance course that deals with the financial system of the United States. Major emphasis is placed on financial markets, financial institutions, financial assets and their interaction within the financial system framework. The course also has a focus on the management and regulation of both markets and institutions. Web assignments are an integral part of this course.

**Components:** 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 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 consumers.

**Components:** Lecture

**Prereqs/Coreqs:** P: BUSADMIN 2630 or AGINDUS 2430

BUSADMIN 3750  1 - 3 credits

**International Short Study**
The International Short Study course is designed to help students develop an understanding of the world’s economies. The globalization of technology, capital, industries, systems, goods, services and inputs has 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.

**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 managers 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 and BUSADMIN 3820

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 4110  3 credits

**Management Science**
An introduction to quantitative methods used in business. Introduction to decision theory, linear programming and its applications, network and scheduling models.

**Components:** Lecture

**Cross Offering:** 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 4130  3 credits
Security Analysis
This course also could be called personal portfolio management. Emphasis is placed on common stock investing and portfolio construction. Security investigation and selection techniques using both fundamental and technical analysis are highlighted. Materials from financial publications, such as Baron's, The Wall Street Journal, Investor's Business Daily and the World Wide Web are integrated throughout the course.
Components: Lecture
Prereqs/Coreqs: P: BUSADMIN 3620

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 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

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 the Internet and business publications.
Components: Lecture
Prereqs/Coreqs: P: ACCTING 3000 and BUSADMIN 1300, BUSADMIN 2630, BUSADMIN 3030 and BUSADMIN 3620 and ECONOMIC 2130 and ECONOMIC 2230 and senior standing

BUSADMIN 4940  1 - 4 credits
Special Problems
Supervised readings in specialized areas.
Components: Independent Study
Prereqs/Coreqs: P: Junior standing and approval of the department chairperson. 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 8 credits. Graded on pass/fail basis.
Components: Field Studies
Prereqs/Coreqs: P: Major or minor in business and junior standing
DEPARTMENT OF COMMUNICATION TECHNOLOGIES

http://www.uwplatt.edu/commtech

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Majors
Communication Technologies
Broadcast Production
Imaging Media
Journalism
Public Relations

Minors
Broadcasting
Imaging Media
Journalism
Public Relations

About the Department and Major
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.

The major in Communication Technologies prepares individuals for a variety of careers such as broadcast producer, public relations consultant, photographer, magazine production, sales executive, Web page developer, announcer, customer service representative, journalist, and videographer. Students majoring in Communication Technologies select one emphasis area: broadcast production, imaging media, journalism or public relations. Opportunities for student involvement include TV-5, WSUP Radio, the Exponent, Christmas Telethon for Wisconsin Badger Camp, the Public Relations Organization (PRO), 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 9 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 Communication Technologies program serves UWP 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 (broadcast production, imaging media, journalism, public relations).
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 a 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 four emphases in this program;
6. apply classroom knowledge in the workplace; and
7. demonstrate knowledge of ethical decision making.
Majors in Communication Technologies

Course work in the major includes core requirements (15 credits), and completion of an emphasis area (21 credits). Students also select to complete 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

**Broadcast 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 Video Production* 3 cr

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

**Imaging Media Emphasis**

**Required Courses (21 credits):**
- COMMNCTN xxxx Any four software courses 4 cr
- COMMNCTN 1250 Audio and Video Systems 3 cr
- COMMNCTN 2070 Introduction to Video 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 in Media and Culture 3 cr
- COMMNCTN 4030 Applied Communication* 3 cr
- COMMNCTN 4130 Communication Technologies 3 cr

**Students will choose one of the following set of courses:**
- 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 as emphasis requirement, may be an elective.

**Electives (minimum 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 Video 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 in Media and Culture 3 cr
- COMMNCTN 4030 Applied Communication* 3 cr
- COMMNCTN 4130 Communication Technologies 3 cr
- COMMNCTN xxxx Communication Technologies Management 3 cr
- ART 1010 Drawing I: Basic Drawing 2 cr
- ART 1310 Drawing II: Styles 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
- ENGLISH 3950 Writing for Performance 3 cr
- COMPUTER 1130 Introduction to Programming 3 cr
- COMPUTER 2430 Object-Oriented Programming I 3 cr
- MUSIC 2030 Introduction to Music History 3 cr
- THEATRE 1230 Stagecraft 3 cr

* If not taken as emphasis requirement, may be an elective.
### Journalism Emphasis

#### Required Courses (21 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMNCTN 1010</td>
<td>Software: Quark Basic</td>
<td>1 cr</td>
</tr>
<tr>
<td>COMMNCTN 1030</td>
<td>Software: Photoshop Basic</td>
<td>1 cr</td>
</tr>
<tr>
<td>COMMNCTN 1930</td>
<td>Basic Photography</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 2030</td>
<td>Basic Newswriting and Reporting</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 2110</td>
<td>Applied Communication (Publications)*</td>
<td>1 cr</td>
</tr>
<tr>
<td>COMMNCTN 3730</td>
<td>Project Writing and Reporting</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

or

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMNCTN 3920</td>
<td>Promotional Techniques*</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 3830</td>
<td>Editing for Print</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 4140</td>
<td>U.S. Investigative Journalism</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3000+</td>
<td>Any upper division POLISCI course</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

#### Electives (minimum 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 in 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 8 credits applied to the major; may not be double counted between emphasis requirements and electives.*

### Public Relations Emphasis

#### Required Courses (21 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMNCTN 1730</td>
<td>Introduction to Communication Technologies</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>COMMNCTN 1930 Basic Photography</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>COMMNCTN 2030 Basic Newswriting and Reporting*</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>COMMNCTN 2050 Broadcast Media Writing*</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>COMMNCTN 2360 Public Relations Principles</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>COMMNCTN 3800 Meetings and Events*</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>COMMNCTN 3860 Media Advertising and Sales*</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>COMMNCTN 3730 Project Writing and Reporting*</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>COMMNCTN 3920 Promotional Techniques*</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

#### Electives

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

### Broadcasting Minor (24 credits)

#### Required Courses (15 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMNCTN 1250</td>
<td>Audio and Video Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 1630</td>
<td>Introduction to Mass Media*</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 1730</td>
<td>Introduction to Communication Technologies</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 2070</td>
<td>Introduction to Video</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 2530</td>
<td>Audio Production</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

#### Electives (9 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMNCTN 1030</td>
<td>Software: Photoshop Basic</td>
<td>1 cr</td>
</tr>
<tr>
<td>COMMNCTN 1040</td>
<td>Software: Photoshop Intermediate</td>
<td>1 cr</td>
</tr>
<tr>
<td>COMMNCTN 1100</td>
<td>Software: Flash Basic</td>
<td>1 cr</td>
</tr>
<tr>
<td>COMMNCTN 1130</td>
<td>Software: Dreamweaver Basic</td>
<td>1 cr</td>
</tr>
<tr>
<td>COMMNCTN 2050</td>
<td>Broadcast Media Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 2090</td>
<td>Principles of Interactivity</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 3030</td>
<td>Multimedia Projects</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 3240</td>
<td>Video Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 3290</td>
<td>Radio Station Procedures</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 3560</td>
<td>Broadcast News</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 3580</td>
<td>Documentary</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 3660</td>
<td>Broadcast Performance</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 3840</td>
<td>Post Production</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 3860</td>
<td>Media Advertising and Sales</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 3930</td>
<td>Communication Law*</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 4130</td>
<td>Communication Technologies Management</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

### Imaging Media Minor (24 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMNCTN xxxx</td>
<td>Software: Any 6 courses</td>
<td>6 cr</td>
</tr>
<tr>
<td>COMMNCTN 1230</td>
<td>Survey of Imaging</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 1630</td>
<td>Introduction to Mass Media</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 1930</td>
<td>Basic Photography</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMMNCTN 3070</td>
<td>History of Imaging</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
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 1010 Software: Quark 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 in Media and Culture 3 cr
COMMNCTN 3920 Promotional Techniques 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
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 3010 Business Communication* 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 3930 Communication Law* 3 cr

* Communication Technologies majors may not double count core requirements with minor requirements; select any other Communication Technologies courses as substitutes.

COMMUNICATION TECHNOLOGIES COURSES

COMMNCTN 1010 1 credit
Software: Quark Basic
An introduction to powerful page layout software, taught on the Macintosh platform. (Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: Communication Technologies major or instructor approval

COMMNCTN 1020 1 credit
Software: Quark Intermediate
An in-depth exploration of page layout software, taught on the Macintosh platform. (Every Two Years)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: COMMNCTN 1010

COMMNCTN 1030 1 credit
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 instructor approval

COMMNCTN 1040 1 credit
Software: Photoshop Intermediate
An in-depth exploration of photo manipulation software, taught on the Macintosh platform. (Fall Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: COMMNCTN 1030

COMMNCTN 1050 1 credit
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 instructor approval

COMMNCTN 1060 1 credit
Software: Illustrator Intermediate
An in-depth exploration of image creation and manipulation software, taught on the Macintosh platform. (Every two years)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: COMMNCTN 1050

COMMNCTN 1100 1 credit
Software: Flash Basic
An introduction to software for Web pages, animation and multimedia. (Fall)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: Communication Technologies major or instructor approval
COMMNCTN 1130  1 credit

**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 instructor approval

COMMNCTN 1230  3 credits

**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, Spring)

**Components:** Laboratory, Lecture

COMMNCTN 1250  3 credits

**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  3 credits

**Introduction to Mass Media**

Survey of mass communication theory and the role of mass media in society. Analysis of media evolution, structure, economics, effects and control. (Fall, Spring)

**Components:** Lecture

GE: Social Science

COMMNCTN 1730  3 credits

**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. (Fall)

**Components:** Lecture

COMMNCTN 1930  3 credits

**Basic Photography**

An introduction to basic photography and darkroom techniques encompassing film selection, exposure variables, camera accessories and lighting. Photographic history and contemporary issues will also be incorporated. A working single lens reflex camera is required. (Fall, Spring)

**Components:** Laboratory, Lecture

**Prereqs/Coreqs:** P: Communication Technologies major or instructor approval

COMMNCTN 2030  3 credits

**Basic Newswriting and Reporting**

This course emphasizes news gathering, interviewing, research, writing techniques, Associated Press style and knowledge of current events. Students will write frequently, both for publication and in the laboratory setting. (Fall, Spring)

**Components:** Laboratory, Lecture

**Prereqs/Coreqs:** P: ENGLISH 1230

COMMNCTN 2050  3 credits

**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

COMMNCTN 2070  3 credits

**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

COMMNCTN 2090  3 credits

**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, COMMNCTN 1130 and COMMNCTN 1230

COMMNCTN 2110  1 credits

**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: Instructor approval

COMMNCTN 2360  3 credits

**Public Relations Principles**

Techniques and practices in the field of public relations; topics discussed cover the general field of public relations and specialized areas. (Fall)

**Components:** Lecture

**Prereqs/Coreqs:** P: ENGLISH 1230

COMMNCTN 2530  3 credits

**Audio Production**

This course offers theory and practice in the preparation and production of commercials, air shifts, newscasts and talk shows. Discussion and hands-on activities in digital audio production and editing are utilized. (Fall)

**Components:** Laboratory, Lecture

**Prereqs/Coreqs:** P: COMMNCTN 1250

COMMNCTN 3010  3 credits

**Business Communication**

Communication strategies and techniques used in business; practice in writing effective memos, letters and reports; oral communication skills developed in influencing group decisions and making presentations; employment correspondence and interviewing. (Fall, Spring, Summer)

**Components:** Lecture

**Prereqs/Coreqs:** P: ENGLISH 1230 and SPEECH 1010
COMMNCTN 3030 3 credits

Multimedia Projects
This course is an in-depth look at contemporary issues in culture, theory and design as they relate to emerging digital interactive technologies. Students will undertake digital projects utilizing various interactive media, methods and practices. (Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: COMMNCTN 1100 and COMMNCTN 2090

COMMNCTN 3070 3 credits

History of Imaging
From cave painting to virtual reality, the history of imaging course includes art and design from other cultures and countries, innovators in the field, and gives historical context for design and photography today. This course provides a necessary historical foundation for students in this major. Through lectures, discussions and writing assignments students will build essential critical thinking skills in the context of visual culture. (Fall)
Components: Lecture
Prereqs/Coreqs: P: COMMNCTN 1230

COMMNCTN 3100 1 - 3 credits

Topics in Communication
Current topics discussed in this course vary by demand.
Components: Laboratory, Lecture
Prereqs/Coreqs: P: Consent of instructor

COMMNCTN 3120 2 credits

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: Consent of instructor

COMMNCTN 3150 3 credits

Communication Research
This course will prepare students to evaluate, conduct and present research in the area of communication technologies studies. (Fall, Spring)
Components: Lecture
Prereqs/Coreqs: P: ENGLISH 1230 and COMMNCTN 1630

COMMNCTN 3240 3 credits

Video 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 3 credits

Radio Station Procedures
This course is a study of radio station operations and procedures, including organizational structure, programming, sales, engineering, management, impact of technology and law. (Spring)
Components: Lecture
Prereqs/Coreqs: P: COMMNCTN 1630

COMMNCTN 3330 3 credits

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, COMMNCTN 1060, COMMNCTN 1230 and COMMNCTN 1930

COMMNCTN 3500 3 credits

Photography II
A in-depth study of the technology/technique 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. (Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: COMMNCTN 1030 and COMMNCTN 1930

COMMNCTN 3560 3 credits

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 3 credits

Documentary
Explore, examine and assess the development, forms and subject matter of the documentary, beginning with its roots in film and continuing into television. This is not a production class. (Winter)
Components: Lecture
Prereqs/Coreqs: P: COMMNCTN 1630

COMMNCTN 3660 3 credits

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 3 credits

Project Writing and Reporting
Students will take the skills and experience gained in previous writing courses and apply them to a significant, semester-long project that will be published in the student newspaper. Emphasis will be placed on developing a meaningful topic for a project, researching public records, conducting in-depth interviews and melding a series of articles into a coherent package. Working in groups and optimizing the talents of group members is vital to success in this course. (Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: COMMNCTN 2030 or COMMNCTN 2050
COMMNCNTN 3770 3 credits
Theories in 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. (Every two years)
Components: Lecture
Prereqs/Coreqs: P: ENGLISH 1230 and COMMNCNTN 1630
GE: Social Science

COMMNCNTN 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:

COMMNCNTN 3830 3 credits
Editing for Print
Practice in writing and editing news copy, proofreading, page design, headline writing and using wire copy. Examination of personnel and ethical problems editors face. (Every two years)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: COMMNCNTN 2030

COMMNCNTN 3840 3 credits
Post-Production
This course offers advanced theory and practice in single camera format video production, including linear and nonlinear editing. (Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: COMMNCNTN 1250, COMMNCNTN 2050, COMMNCNTN 2070 and COMMNCNTN 2530

COMMNCNTN 3860 3 credits
Media Advertising and Sales
Analysis of the sales function in broadcasting and print media. Comparative strengths and weaknesses of advertising media. (Fall)
Components: Lecture
Prereqs/Coreqs: P: COMMNCNTN 1630

COMMNCNTN 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, etc. (Fall)
Components: Lecture
Prereqs/Coreqs: P: COMMNCNTN 2360 or BUSINESS 2630

COMMNCNTN 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: COMMNCNTN 1630

COMMNCNTN 4030 3 credits
Applied Communication
This course offers practical experience in the management of the university radio station, the university television facilities or university publications. Maximum of 8 credits of COMMNCNTN 2110, COMMNCNTN 3120 and COMMNCNTN 4030 may be applied to the major. (Fall, Spring)
Components: Laboratory
Prereqs/Coreqs: P: Consent of instructor

COMMNCNTN 4040 1 - 3 credits
Communication Practicum
This course offers students the opportunity to apply knowledge of journalism, imaging media, public relations and broadcast production 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, Winterim, Spring, Summer)
Components: Field Studies
Prereqs/Coreqs: P: Junior standing and consent of the department coordinator

COMMNCNTN 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 the instructor

COMMNCNTN 4130 3 credits
Communication Technologies Management
Discussion and application of management theories and principles to communication technologies and mass media. Analysis of personnel, budget, sales, research and regulation of communication technologies. (Every two years)
Components: Lecture
Prereqs/Coreqs: P: COMMNCNTN 1730 and junior standing

COMMNCNTN 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. (Every two years)
Components: Lecture
Prereqs/Coreqs: P: COMMNCNTN 2030

COMMNCNTN 4360 3 credits
Public Relations Strategies
Application of the basic public relations principles and persuasive communication through the development of original PR campaigns, implementation and exploration of case studies. (Spring)
Components: Lecture
Prereqs/Coreqs: P: COMMNCNTN 2360 and COMMNCNTN 3730 or COMMNCNTN 3920
COMMNCTN 4500  3 credits
Photography III
Develops 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. (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, team-taught by the department faculty and invited professionals. (Fall, Spring)

Components: Seminar
Prereqs/Coreqs: P: Communication Technologies major 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 for credit; 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 pass/fail basis. (Fall, Winterim, Spring, Summer)

Components: Field Studies
Prereqs/Coreqs: P: Students registering for internship experience must a) be in good academic standing with at least 60 overall credits earned or in progress; b) have completed at least 21 Communication Technologies credits; and c) have approval from their advisor and department internship coordinator.
About the Department and Major

The Department of Industrial Studies offers majors in technology education and industrial technology management. The industrial technology management major has options in building construction management, manufacturing technology management and occupational safety management. Minors are available in building construction management, computer integrated manufacturing, drafting and product development technology, industrial control systems technology, metals processing technology, occupational safety, plastics processing technology and production and manufacturing management.

Students who complete the major in industrial technology management, with an option in manufacturing technology management can expect to enter the industry in technical, managerial and staff positions in the areas of production and manufacturing, supervision, technical sales and service and quality assurance. Courses required within this option include industrial management, technical areas, safety, business administration, English and computer science. Students are strongly encouraged to select courses that support their defined career objectives.

The option in building construction management prepares graduates to enter middle management positions in the construction industry as project managers, estimators, schedulers and in supervision.

The option 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 course work (INDUSTDY). Three credits in INDUSTDY 4990 Industrial Studies Internship are required; however a maximum of 8 credits may be counted towards a student's degree.

Mission Statements and Student Learning Outcomes for the Department and Majors/Options

The mission of the 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 Options

1. The mission of the Building Construction Management Option is to prepare competent professional leaders who understand the interrelationships between management and construction technology and apply their skills to solve real-world problems in a global society. Building Construction Management Student Learning Outcomes are:
   a. Students will be able to estimate the cost of construction.
   b. Students will be able to plan and execute a schedule of construction.
   c. Students will be able to demonstrate proficiency in using computer graphics and management software programs.
   d. Students will be able to evaluate and plan for HVAC, electrical and plumbing using various schematic drawings.
   e. Students will be able to identify advantages and disadvantages of various construction materials for specific situations.
   f. While on the job site, students will be able to demonstrate safe operation of construction tools and equipment.
   g. Students will be able to develop and implement construction safety plans, recognize safe practices and also make corrections for unsafe conditions at the job site.
   h. Students will be able to perform various surveying techniques in plotting for construction.
   i. Students will be able to demonstrate various aspects of construction administration.

2. The mission of the Manufacturing Technology Management Option 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.

3. The mission of the Occupational Safety Management Option is to develop highly competent professionals and leaders in the field of safety and health through classroom preparation, laboratory activities and internships. These educational experiences emphasize safety policies, procedures, issues and incidents in the global workplace. Occupational Safety Management Student Learning Outcomes are:
   a. Students will be able to interpret government laws and policies as they pertain to safety.
   b. Students will be able to conduct safety inspections of facilities, both work facilities and school facilities.
   c. Students will be able to promote a safety culture.
   d. Students will be able to analyze work situations for ergonomic issues.
   e. Students will be able to develop emergency disaster preparedness plans.
   f. Students will be able to analyze the safe operation of equipment, machines and tools in the course of work.
   g. Students will be able to develop and deliver safety programs at the workplace.

Technology Education Mission Statement

The mission of the Technology Education program is to prepare the finest Technology Education teachers in the State of Wisconsin. Competencies follow the Wisconsin Content Guidelines for Technology Education.

The Technology Education teacher shall demonstrate knowledge and skills in:

1. Articulating a philosophy informed by current research findings in technology education, curriculum and instructional design, assessment and professional development.
2. Designing programs based on a sound mission statement with stated goals and objectives that reflect the definition and intent of technology education.
3. Explaining the development of technology and its effect on people, the environment and culture; industry and its organization, personal systems, techniques, resources and products; and the impact of technology and industry on society and culture.
4. Categorizing technological concepts, processes and systems according to various content organizers such as bio-related, construction, energy/power, information communications, manufacturing, medical, transportation and other technologies.
5. Articulating and using the concepts, skills and knowledge contained in current state and national standards for technology education in the development of technology education across the curriculum.
6. Relating technology education to other academic disciplines and fields of study including the articulation and integration of technology education across the curriculum.
7. The teaching and technical skills appropriate to technology education including:
   a. The use of an organized set of technological concepts, processes and systems when designing course outlines, instructional strategies and evaluating student work.
   b. The development of a strategic program that includes a mission statement, rationale for change, goals, objectives, action steps and program evaluation.
   c. The selection of course and/or program content based on the goals and objectives appropriate to the various technology content organizers.
   d. The development of lesson plans, the organization of material and the selection of appropriate instructional strategies to effectively teach the psychomotor, affective and cognitive domains of learning.
   e. Applying problem-solving and creative abilities involving human and material resources, processes and technological systems.

8. The application of their knowledge, understanding and philosophy of technology education to create and manage a positive, effective learning environment, including:
   a. The identification and incorporation of safe, effective and appropriate use of contemporary technological tools, instruments and machines into a program of study.
   b. The incorporation of insights, knowledge and applications of technological concepts, processes and systems into their instruction.
   c. The incorporation of skills, creative abilities, positive concepts and individual potentials into their instruction.
   d. The use of activity oriented laboratory instruction that reinforces abstract concepts through concrete experiences.
   e. The application of technology to the design and production of activities for student use.
   f. The development of technology education programs that advance student attitudes, knowledge and skills related to the functions of technological systems.
   g. The development of student abilities to apply technological knowledge and skills, and assess new or different past-present-future technology systems.
   h. The selection of appropriate instructional strategies to effectively teach all student populations.
   i. The effective management of a technology education laboratory for safety, inventory, filing, requisitioning equipment and materials, maintenance and budgeting.
   j. The development and implementation of a behavior management program which defines clear expectations for student conduct.
   k. Establishing technology related career and technical student organizations such as SkillsUSA or Technology Student Association as an integral part of the technology education curriculum.
   l. The management of technological activities in both individual and group settings.
   m. The application of multicultural, gender and global perspectives, as well as values and ethics of content issues as they relate to the study of technology.
   n. The promotion and articulation of technology education to internal and external audiences.
   o. Relating the study and mastery of technology to lifelong learning and preparation for careers and future education and training.
   p. The implementation and management of a work-based learning program including the supervision of students.

9. Continuous improvement, instruction, activities and self, through:
   a. The development and coordination of an external advisory committee for technology education and student organizations.
   b. The identification and use of standards for the evaluation and revision of technology education programs.
   c. The participation in related professional organizations for technology education teachers.

General Requirements
Bachelor of Science Degree

Total for Graduation..............................120 credits
General Education..................................44-58 credits
Major Studies ......................................48-54 credits

Technology Education Major

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

Core Courses
Professional Education Requirements (42-52 credits) - GPA 2.75 or better

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

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TEACHING 1230</td>
<td>Introduction to Education</td>
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<tr>
<td>TEACHING 2130</td>
<td>Human Growth and Development</td>
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<tr>
<td>TEACHING 3320</td>
<td>Psychology of Learning</td>
<td>3 cr</td>
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<td>TEACHING 3630</td>
<td>Ethnic and Gender Equality</td>
<td>3 cr</td>
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<tr>
<td>TEACHING 4940/ 4960</td>
<td>Student Teaching/Internship</td>
<td>15 cr</td>
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<tr>
<td>AGINDUS 3900</td>
<td>Planning Cooperative Education in Agriculture</td>
<td>3 cr</td>
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<tr>
<td>INDUSTDY 3930</td>
<td>Teaching Technology Education</td>
<td>3 cr</td>
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<tr>
<td>INDUSTDY 4640</td>
<td>Curriculum and Facility Planning</td>
<td>3 cr</td>
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<tr>
<td>INDUSTDY 4820</td>
<td>Principles of Vocational Technology Education</td>
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Option A (8 credits):

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<td>TEACHING 4020</td>
<td>Educational Media Technology</td>
<td>2 cr</td>
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<tr>
<td>TEACHING 4210</td>
<td>Pre-Student Teaching</td>
<td>2 cr</td>
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<tr>
<td>TEACHING 3110</td>
<td>Key Concepts of Middle Level Education</td>
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Option B (12 credits):

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<tr>
<td>TEACHING 3110</td>
<td>Key Concepts of Middle Level Education</td>
<td>2 cr</td>
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TEACHING 3120 Characteristics of Transescents 2 cr
TEACHING 4220 Advising Interaction and Communication 2 cr
TEACHING 4620 Teaching Transescents 2 cr

Option C (18 credits):
TEACHING 4050 Middle Level Professional Preparation Seminar 18 cr

Technology Education Major (36 credits) - GPA 2.75 or better

Required (27 credits):
COMMNCTN 1230 Survey of Imaging 3 cr
or
COMMNCTN 1250 Audio and Video Systems 3 cr
or
COMMNCTN 1930 Basic Photography 3 cr
or
INDUSTDY 1030 Introduction to Manufacturing 3 cr
INDUSTDY 1130 Wood Technology 3 cr
INDUSTDY 1200 AC/DC Fundamentals 3 cr
INDUSTDY 1230 Technical Drafting 3 cr
or
INDUSTDY 1260 Building Construction Drafting 3 cr
INDUSTDY 1430 Introduction to Metals Processes 3 cr
INDUSTDY 1530 Power Systems Technology 3 cr
INDUSTDY 1830 Synthetic and Composite Materials 3 cr
INDUSTDY 2430 Construction Materials and Graphics 3 cr

Electives (9 credits)
Select any three INDUSTDY courses

Other requirements:
- PPST/CBT
  Reading (175/322)
  Writing (174/320)
  Math (173/318)
- Admission to School of Education
  (Requires Admission Portfolio)
- Admission to Student Teaching
  (Requires Student Teaching Portfolio and Praxis Competency Exam)
- Credit Check
- Licensure Portfolio
- Overall GPA 2.75 is needed to complete program
- Check:
  1. Minimum 120 credit
  2. 39 credits in 3000 or 4000 level course
  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 course work 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.
Manufacturing Technology Management Option
(60 credits)

http://www.uwplatt.edu/ind_studies/itm.html

This option consists of 60 credits comprised of course work in the professional concentration, technical core and a 24 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 advisor to complete the degree.

Occupational Safety Management Option
(51 credits)

http://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

COMMNCTN 3010 Business Communication 3 cr
BUSADMIN 3030 Human Resource Management 3 cr

or

BUSADMIN 3820 Professional Selling 3 cr
CRIMJUS 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 4720 Seminar in Safety 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
CRIMJUS 2930 Interviewing 3 cr
INDUSTDY 3180 Construction Safety Management 3 cr
INDUSTDY 3810 Alcohol/Drugs 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 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 Construction Materials and Graphics 3 cr
INDUSTDY 3140 General Construction Estimating 4 cr
INDUSTDY 3220 Construction Procedures 3 cr

Electives (8 credits):
INDUSTDY 4020 Topics in Industrial Studies 1-3 cr
INDUSTDY 4530 Residential Planning and Design 3 cr
INDUSTDY 4630 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 (30 credits)

**Required Courses (if not completed as part of the major) (12 credits):**
- INDUSTDY 1030 Introduction to Manufacturing 3 cr
- INDUSTDY 1230 Technical Drafting 3 cr
- or
- INDUSTDY 1260 Building Construction Drafting 3 cr
- INDUSTDY 1430 Introduction to Metals Processes 3 cr
- INDUSTDY 1830 Synthetic and Composite Materials 3 cr

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

**Electives (9 credits):**
- INDUSTDY 2910 Plastics Technology 3 cr
- BUSADMIN 3130 The Legal Environment of Business 3 cr
- INDUSTDY 3160 Machining and CNC Programming 3 cr
- INDUSTDY 3940 Materials Testing and Evaluation 3 cr
- INDUSTDY 4010 Topics in Industrial Studies 3 cr
- INDUSTDY 4780 Ergonomics in the Workplace 3 cr
- INDUSTDY 4850 Thermoforming Technology 3 cr
- INDUSTDY 4860 Injection Molding Technology 3 cr
- INDUSTDY 4870 Extrusion Technology 3 cr

Industrial Control Systems Technology Minor (24 credits)

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

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

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

Metals Processing Technology Minor (27 credits)

**Required Courses (if not completed as part of the major) (6 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 4030 Topics in Industrial Studies 1-3 cr
- INDUSTDY 4160 Metal Manufacturing Senior Design 3 cr
- INDUSTDY 4490 Metalcasting Technology II 3 cr

Occupational Safety Minor (24 credits)

**Required Courses (12 credits):**
- INDUSTDY 2710 Principles of Safety 3 cr
- INDUSTDY 3610 Safety and Worker Compensation Laws 3 cr
- INDUSTDY 4720 Seminar in Safety 3 cr
- INDUSTDY 4770 Loss Control Safety Management 3 cr

**Electives (12 credits):**
- INDUSTDY 3810 Construction Safety Management 3 cr
- INDUSTDY 3910 Industrial Hygiene Technology 3 cr
- INDUSTDY 3910 Alcohol and Other Drugs as Related to Safety 3 cr
- INDUSTDY 4750 Disaster Preparedness 3 cr
- INDUSTDY 4780 Ergonomics in the Workplace 3 cr
- INDUSTDY 4790 Safety Management Components 3 cr
- INDUSTDY 4810 Fire Protection 3 cr

Plastics Processing Technology Minor (24 credits)

**Required Courses (if not completed as part of the major) (6 credits):**
- INDUSTDY 1430 Introduction to Metals Processes 3 cr
- INDUSTDY 1830 Synthetic and Composite Materials 3 cr

**Required Courses (6 credits):**
- INDUSTDY 2910 Plastics Technology 3 cr
- INDUSTDY 3150 Polymeric and Ceramic Materials 3 cr

**Electives (12 credits):**
- INDUSTDY 3940 Materials Testing and Evaluation 3 cr
- INDUSTDY 4020 Topics in Industrial Studies 1-3 cr
- INDUSTDY 4160 Metal Manufacturing Senior Design 3 cr
- INDUSTDY 4850 Thermoforming Technology 3 cr
- INDUSTDY 4860 Injection Molding Technology 3 cr

Production and Manufacturing Management Minor (27 credits)

This minor is not available to a student having an option in Manufacturing Technology Management.

**Required Courses (18 credits):**
- 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
- INDUSTDY 4980 Training and Supervision 3 cr
- BUSADMIN 4120 Operations Management 3 cr
**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, Kirchoff'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 and components of residential and commercial building structures. (Fall, Spring)  
**Components:** Laboratory, Lecture

**INDUSTDY 1320** 3 credits  
*Computer Aided Design Drafting*  
Topics include 2-D and 3-D sketching, dimensioning, sectioning, and views of architectural and construction drawings. The use of computer aided drafting techniques is emphasized. (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 AGINDUS 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, metallics and ceramics and their limitations. The rationalization of enhancement of properties by combining the traditional industrial materials and applications of composite materials. This course is lab and lecture and the lab activities are emphasizing the spectrum of plastic matrix composite, testing and evaluation of materials. (Fall, Spring)  
**Components:** Laboratory, Lecture

**INDUSTDY 2260** 3 credits  
*Semiconductors*  
Discrete electronic device circuits will be investigated including power supplies, transistor amplifiers and switching and control circuits. The course will also include an introduction of integrated circuit devices and operational amplifiers and their applications. (Spring)  
**Components:** Laboratory, Lecture  
**Prereqs/Coreqs:** P: INDUSTDY 1200 and 1530

**INDUSTDY 2430** 3 credits  
*Construction Materials and Graphics*  
A detailed drafting/materials course utilizing conventional and CADD related to the study of soils, classification and earthwork; cement, concrete and concrete forming; grades, sizes and application of lumber and plywood and framing details and structural calculations as related to residential and commercial building construction. (Fall, Spring)  
**Components:** Laboratory, Lecture  
**Prereqs/Coreqs:** P: INDUSTDY 1260

**INDUSTDY 2540** 3 credits  
*Materials and Techniques of Building Construction*  
A conventional/CADD architectural drafting course related to the fundamental study of architectural perspectives, including shades and shadows; materials and methods associated with interior and exterior floor, wall and ceiling coverings, and related finishing practices; stair design and construction; and the basics of construction surveying and land description. (Fall, Spring)  
**Components:** Laboratory, Lecture  
**Prereqs/Coreqs:** P: INDUSTDY 2430 and COMPUTER 1830.
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

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 7 common plastics processing techniques and other specialized production methods are demonstrated. (Spring)

**Components:** Laboratory, Lecture

**Prereqs/Coreqs:** P: INDUSTDY 1830

INDUSTDY 3140 4 credits

**General Construction Estimating**
Principles, theories and systems of general construction estimating; quantity survey techniques; standard forms; material costs and labor pricing; and the use of computer estimating software. (Spring)

**Components:** Laboratory, Lecture

**Prereqs/Coreqs:** P: INDUSTDY 2430 and COMPUTER 1830

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

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 1430

INDUSTDY 3180 3 credits

**Construction Safety Management**
A practical study of construction safety management principles and concepts are covered in this course designed for Building Construction Management majors or minors and Occupational Safety Management majors or minors. The course includes various management strategies for the identification, evaluation and correction of unsafe behaviors in effort to reduce injuries, fatalities and accidents on the construction site. Emphasis is also placed on the understanding of selected Code of Federal Regulations # 1926 OSHA Construction Industry Standards utilized in the development of a safe and healthy working environment. (Spring)

**Components:** Lecture

INDUSTDY 3210 3 credits

**Construction Laboratory**
Laboratory and field experience in basic carpentry and masonry principles, concrete forming, brick and block laying, estimating, scheduling and related areas. (Fall Spring)

**Components:** Laboratory, Lecture

**Prereqs/Coreqs:** P: INDUSTDY 1130 and INDUSTDY 2430

INDUSTDY 3220 3 credits

**Construction Procedures**
Planning and analysis of work methods, scheduling and its computer applications, control of crews, materials and equipment selection, CPM and PERT methods of scheduling, contract types, the project manual concept, and construction specification writing and interpretation. (Spring)

**Components:** Lecture

**Prereqs/Coreqs:** P: INDUSTDY 2430, MATH 1830, and COMPUTER 1830

INDUSTDY 3230 3 credits

**Digital Electronics**
The study of digital and linear integrated circuits utilized in control systems applications. Timer circuits, logic gates, and programmable memory will be used in applications. Microcontroller programming and applications will be emphasized. (Fall)

**Components:** Laboratory, Lecture

**Prereqs/Coreqs:** P: INDUSTDY 1200 and 1530

INDUSTDY 3310 3 credits

**Metallurgy and Joining Processes**
An intermediate course studying the physical and mechanical properties of metals and their alloys, and the principles of heat treatment of ferrous and non ferrous alloys. Laboratory and theory on welding and joining processes and their affects on the metallurgy and physical properties of metals. A semester project on metallurgy or a joining method with a final report and presentation are requirements of the course. (Check with Department for rotation.)

**Components:** Laboratory, Lecture

**Prereqs/Coreqs:** P: INDUSTDY 1030 and INDUSTDY 1430

INDUSTDY 3460 3 credits

**3D Industrial Production Drafting**
Expands 2D drafting concepts using AutoCAD and provides integration of drafting and design procedures with 3D software. Students will explore introductory through intermediate techniques including part model creation, assembly model creation, part drawing documents, geometric dimensioning and tolerancing and other modeling features related to 3D solid modeling. Students will apply drafting and design principles to component parts toward various applications to meet industry standards. (Fall Spring)

**Components:** Laboratory, Lecture

**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 will be put on the following processes: green sand molding and testing, evaporative pattern casting, investment casting, chemically bonded sand and shell sand casting. 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 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 different 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. (Every third semester)

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 3730  3 credits
Three-Dimensional CADD
A study of the principles and techniques used to illustrate three-dimensional forms. Traditional techniques and CADD are employed to construct wire-frame, surface and solid models. (Spring)

Components: Laboratory, Lecture
Prereqs/Coreqs: P: INDUSTDY 1230 or GENENG 1020 and GENENG 1320

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 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 third semester)

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)

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: INDUSTDY 1030, or INDUSTDY 1430 and 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

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: INDUSTDY 1230 or INDUSTDY 1200 or INDUSTDY 2710
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 4130 3 credits

**Industrial Laser**
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, INDUSTDY 3160 and INDUSTDY 3460

INDUSTDY 4360 3 credits

**Specialized Drafting Practices**
Theory and practices as applied to fixture layout, applied mechanics, graphics statics and other symbolic diagrams. CADD applications of these areas will be employed. (Fall)

**Components:** Laboratory, Lecture
**Prereqs/Coreqs:** P: INDUSTDY 1030 and INDUSTDY 1230

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)

**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, pattern-making, 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, INDUSTDY 1430, INDUSTDY 3310 and INDUSTDY 3480

INDUSTDY 4530 3 credits

**Residential Planning and Design**
Residential planning, design and construction; specific emphasis is placed on the presentation plans, home ownership, housing, design requirement and special structural design considerations. Laboratory work consists of developing a complete set of working architectural plans and related specifications using conventional and CADD drafting practices. (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. (Spring)

**Components:** Laboratory, Lecture
**Prereqs/Coreqs:** P: INDUSTDY 2430 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. (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

INDUSTDY 4750 3 credits

**Disaster Preparedness**
Principles of organization on the local, state and national levels concerning natural and human disasters. A systematic and realistic approach to hazard analysis and mitigation. An opportunity is provided to participate in a class disaster preparedness project. (Every third semester)

**Components:** Lecture
**Prereqs/Coreqs:** P: INDUSTDY 2710

INDUSTDY 4770 3 credits

**Loss Control Safety Management**
The role of management involved with principles of organization, implementation, administration and evaluation of occupational safety programs is provided in the course. Methods of controlling losses, basic risk management theories, behavioral-based safety concepts and others are studied. Emphasis is placed on accountability and measuring safety performance at all levels of industry. (Every third semester)

**Components:** Lecture
**Prereqs/Coreqs:** P: INDUSTDY 2710
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Prereqs/Coreqs</th>
<th>Components</th>
<th>Prereqs/Coreqs</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDUSTDY 4780</td>
<td>3</td>
<td>Engineering in the Workplace</td>
<td></td>
<td>Lecture</td>
<td>P: INDUSTDY 2710</td>
<td>Acknowledges 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. (Every third semester)</td>
</tr>
<tr>
<td>INDUSTDY 4790</td>
<td>3</td>
<td>Safety Management Components</td>
<td></td>
<td>Lecture</td>
<td>P: INDUSTDY 2710</td>
<td>Acknowledges 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. (Every third semester)</td>
</tr>
<tr>
<td>INDUSTDY 4810</td>
<td>3</td>
<td>Fire Protection</td>
<td></td>
<td>Lecture</td>
<td>P: INDUSTDY 2710</td>
<td>A study of the nature and theory of fire hazards; preplanning to prevent fires; the systems approach to fire protection services; the technology of fire control; and the application of theory and technology to solving fire problems. Special attention is given to preparing comprehensive fire prevention programs in the business or industrial world. (Every third semester)</td>
</tr>
<tr>
<td>INDUSTDY 4820</td>
<td>2</td>
<td>Principles of Vocational-Technical Education</td>
<td></td>
<td>Lecture</td>
<td>P: INDUSTDY 2710</td>
<td>An examination of the historical roots of vocational-technical education. Readings and research are conducted on the current trends and issues facing vocational-technical education in a high tech society. Satisfies vocational certification. (Winterim and every other Spring)</td>
</tr>
<tr>
<td>INDUSTDY 4840</td>
<td>3</td>
<td>Construction Administration</td>
<td></td>
<td>Lecture</td>
<td>P: INDUSTDY 2710</td>
<td>Acknowledges 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. (Every third semester)</td>
</tr>
<tr>
<td>INDUSTDY 4850</td>
<td>3</td>
<td>Thermoforming Technology</td>
<td></td>
<td>Lecture</td>
<td>P: INDUSTDY 2710</td>
<td>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)</td>
</tr>
<tr>
<td>INDUSTDY 4860</td>
<td>3</td>
<td>Injection Molding Technology</td>
<td></td>
<td>Laboratory, Lecture</td>
<td>P: INDUSTDY 2910</td>
<td>A course designed to provide students with in-depth knowledge 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 troubleshooting and part evaluation.</td>
</tr>
<tr>
<td>INDUSTDY 4870</td>
<td>3</td>
<td>Extrusion Technology</td>
<td></td>
<td>Laboratory, Lecture</td>
<td>P: INDUSTDY 2910</td>
<td>A course designed to provide students with in-depth knowledge 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 troubleshooting and part evaluation.</td>
</tr>
<tr>
<td>INDUSTDY 4890</td>
<td>3</td>
<td>Work Measurement and Human Factors</td>
<td></td>
<td>Laboratory, Lecture</td>
<td>P: INDUSTDY 1030 and MATH 1830</td>
<td>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, 5 Ss, value stream mapping, and 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)</td>
</tr>
<tr>
<td>INDUSTDY 4900</td>
<td>3</td>
<td>Quality Assurance</td>
<td></td>
<td>Laboratory, Lecture</td>
<td>P: INDUSTDY 1030 and MATH 1830</td>
<td>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, 5 Ss, value stream mapping, and 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)</td>
</tr>
<tr>
<td>INDUSTDY 4950</td>
<td>3</td>
<td>Production Planning and Control</td>
<td></td>
<td>Laboratory, Lecture</td>
<td>P: INDUSTDY 1030</td>
<td>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)</td>
</tr>
</tbody>
</table>

**Prerequisites/Corequisites:**

- INDUSTDY 1030
- MATH 1830
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)
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: INDUSTDY 1200, INDUSTDY 1230, INDUSTDY 2710 and junior standing

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
The College of Engineering, Mathematics, and Science offers degree programs in chemistry, computer science, engineering physics, mathematics, general science, 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. Some of the opportunities our students may take advantage of include the following.

Educational Goals and Objectives

The College of Engineering, Mathematics, and Science’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 web site.

International Exchange Program

The College of EMS has International Exchange Programs with Germany, Ireland, Turkey, Norway, Sweden, Australia and the Netherlands. Programs are based on a one-to-one exchange with host universities, and automatically fulfill international requirements. 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 UWP tuition and fees. Grades and credits earned at a partner institution will be included in the calculation of the UWP 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 e-mail us at intlexchng@uwplatt.edu

Distance Education

Our distance education facility allows UW-Platteville to exchange course instruction with cooperating universities through an interactive compressed video or full motion video system. Through the use of this facility, professors at other institutions may teach students at UW-Platteville, and professors here may teach students at other sites. The video system or full motion video, which is also available for continuing education programs, guest lectures and professional meetings, enables interaction between participants in this facility and participants in a compatible facility elsewhere.

Articulation Agreements

Articulation agreements provide opportunities for students to complete their first two years of study at one university before transferring to a cooperative university to complete the course work necessary for their engineering degree. UW-Platteville has articulation agreements with several other UW institutions, including UW-Baraboo/Sauk County, UWC-Fox Valley, UWC-Richland, UW-Parkside, UW-Stout, UW-Oshkosh, UW-Whitewater and Viterbo University. The agreement with UW-Stout also provides for students to move with ease to UW-Stout after two years at UW-Platteville.
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 timeframe 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 located primarily in Ottensman Hall. Most computer labs are accessible during the open building hours. In addition to the program computer labs, whose computers carry discipline specific hardware, the college maintains the Engineering Instructional Center (EIC) 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.

Engineering Policies and Procedures

Programs in engineering physics, civil, electrical, environmental, industrial and mechanical engineering are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). Our newest program in software engineering has begun the accreditation process. In addition, general engineering courses are provided for pre-engineering students working towards degrees in each of the engineering disciplines. After completing two years at UW-Platteville, students usually may transfer without loss of credits to a university offering other engineering degrees.

Transfer of credits from other institutions must be approved by the department chair of the program in which the student plans to major. Each program has specified courses which must be taken in residence.

Students seeking admission to the engineering programs, either as new freshmen or as transfer students, must demonstrate that they have achieved a score of 22 or higher in the mathematics portion of the ACT, or have earned a grade of “C” or better in MATH 2640 Calculus and Analytic Geometry or its equivalent.

Placement into mathematics courses is based primarily on the student’s performance on the UW System Mathematics Placement Test. Students with only three years of secondary mathematics normally start with MATH 2450 Precalculus Mathematics, which carries no credit toward an engineering degree. Students with good records in four years of secondary school mathematics are usually placed directly in MATH 2640 Calculus and Analytic Geometry, the first course in the mathematics sequence for engineering students. All engineering students must complete at least 15 credits in a mathematics sequence.

Students are admitted to engineering degree programs after successfully completing the set of fundamental core courses and meeting specific program requirements. Additional details are provided in the General Engineering Program description.

Students enrolled in an engineering program are governed by both the academic standards of the university and of the engineering programs. In some cases, academic standards and requirements of the engineering programs are more rigorous than those of the university. Interested students may obtain detailed descriptions of the engineering academic standards and program requirements from the Office of the Dean of the College of Engineering, Mathematics and Science, 100 Ottensman Hall.

Each degree program may stipulate grade requirements in specified engineering courses. In some programs, the requirement might be a “C” in each of those courses. In other programs, the requirement might be a “C” or 2.00 grade point average over a number of courses.

All engineering courses may be repeated only once. Students who receive two “D’s”, two “F’s”, or a “D” and a “F” in the same course will be placed on probation and have one semester to achieve the required grades. After the one semester, if students do not achieve a higher grade, they may be dismissed from that engineering program or all engineering programs.

The Engineering Admissions and Academic Standards Committee (EAASC) reviews readmissions to the engineering programs. This committee is the primary appeal body for academic decisions within the engineering programs. The EAASC also reviews charges of academic misconduct and makes appropriate recommendations consistent with facts established in the review process. Under circumstances of proven academic misconduct, the EAASC may impose penalties that include reprimand, probation and dismissal from the engineering programs.

Students dismissed from the university are automatically dismissed from the engineering programs; readmission to the university does not imply readmission to engineering programs. Students dismissed from the engineering programs must petition the EAASC for readmission. Students who have been dismissed from an engineering program may not enroll in any engineering courses except those offered during summer session or as approved by the members of the EAASC.
The Women in Engineering Program

E-mail: salmont@uwplatt.edu

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

- Women in Engineering Career Days
- The Women in Engineering Mentor Program and Center
- Women in EMS scholarship program
- Outreach visits to local schools
- A local Chapter of the Society of Women Engineers (SWE)
- One-on-one advising
- Women in Engineering, Mathematics and Science (EMS) Advisory Board
- “Engineering A Girl” Tools Workshops
- The Women in EMS Student Ambassadors

The goals of the Women in Engineering Program are:

- 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 SMET.

The Engineering Advising Office

The Engineering Advising Office provides a comprehensive set of services that assists engineering 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 when their assigned advisor is not available 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 other career choices.
Every student majoring in chemistry must meet the writing certification requirement as established by the department. Details may be obtained from the department chairperson. All chemistry majors are required to have an industrial/research experience in their junior or senior year. This requirement can be satisfied either by CHEMSTRY 4000 Undergraduate Research or CHEMSTRY 4660 Cooperative Field Experience. Students in the Criminalistics Emphasis may satisfy this requirement through CRIMLJUS 4880 Internship.

Statement of Purpose - Chemistry Program

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, the methods used to obtain such insight and the 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; and
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 required)
The Chemistry Major is designed to equip the graduates with the necessary skills, knowledge and attitudes so they can secure meaningful employment in industrial or governmental laboratories, enter graduate and professional schools or teach at the secondary school level.

CHEMSTRY 1140 General Chemistry 4 cr
CHEMSTRY 1240 General Chemistry II 4 cr
CHEMSTRY 2150 Quantitative Analysis 4 cr
CHEMSTRY 2730 Inorganic Chemistry * 4 cr
CHEMSTRY 3540 Organic Chemistry I 4 cr
CHEMSTRY 3510 Organic Chemistry Lab 1 cr
CHEMSTRY 3630 Organic Chemistry II 3 cr
CHEMSTRY 3610 Organic Chemistry II Lab 1 cr
CHEMSTRY 4130 Physical Chemistry I 3 cr
CHEMSTRY 4110 Physical Chemistry II Lab 1 cr
CHEMSTRY 4240 Instrumental Analysis 4 cr
CHEMSTRY 4630 Biochemistry 3 cr
CHEMSTRY 4060 Seminar 1 cr
CHEMSTRY 4000, 4660 or CRIMLJUS 4880 1-8 cr

Required Chemistry Courses
MATH 2640 Calculus and Analytic Geometry I 4 cr
MATH 2740 Calculus and Analytic Geometry II 4 cr
PHYSICS 1140 Introductory Physics I 4 cr
PHYSICS 1110 Introductory Physics I Lab 1 cr
PHYSICS 1240 Introductory Physics II 4 cr
PHYSICS 1210 Introductory Physics II Lab 1 cr

* Students are encouraged to take the following additional mathematics and substitute physics courses:

MATH 2840 Calculus and Analytic Geometry III 4 cr
PHYSICS 2530 General Physics I 3 cr
PHYSICS 2510 General Physics I Lab 1 cr
PHYSICS 2640 General Physics II 4 cr
PHYSICS 2610 General Physics II Lab 1 cr

Study of a foreign language is recommended for students who plan to pursue graduate studies. In addition, substitution of PHYSICS 2530, 2510, 2640 and 2610 for the minimum physics courses is strongly encouraged for ACS-approved chemistry majors.

Chemistry Major, Biochemistry Emphasis (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:

CHEMSTRY 4610 Biochemistry Lab 1 cr
CHEMSTRY 4830 Biochemistry Topics 3 cr
BIOLOGY 1650 Unity of Life 5 cr
BIOLOGY 3240 Microbiology 4 cr

Biological Electives (2-4 credits):
BIOLOGY 2040 Cell Biology 4 cr
BIOLOGY 3330 Genetics 3 cr
BIOLOGY 3530 Biotechnology 3 cr
BIOLOGY 3620 Immunology 2 cr

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 criminalistics 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
CRIMLJUS 4880 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 including a chemistry perspective to students in other majors including those preparing to teach secondary school.

CHEMSTRY 1140 General Chemistry I  4 cr
CHEMSTRY 1240 General Chemistry II  4 cr
CHEMSTRY 2150 Quantitative Analysis  4 cr
CHEMSTRY 3540 Organic Chemistry  4 cr
CHEMSTRY 3510 Organic Chemistry Lab  1 cr
CHEMSTRY 2730 Inorganic Chemistry  4 cr
or
CHEMSTRY 4630 General Biochemistry  3 cr

CHEMISTRY Electives  3 cr

CHEMISTRY COURSES

CHEMSTRY 1020  2 credits
Introductory Chemistry
A one semester course for students who do not have a sufficiently strong chemistry background to succeed in Chemistry 1450. Topics will include measurements, atomic and molecular structure, periodicity, stoichiometry, states of matter, intermolecular forces and solutions. (Fall, Spring)
Components: Discussion, Lecture

CHEMSTRY 1050  5 credits
General Chemistry
A one-semester survey of chemistry including organic and inorganic compounds. A course to partially satisfy the laboratory science requirement, and for students who need only one semester of chemistry for their major. (Fall, Spring)
Components: Discussion, Laboratory, Lecture
GE: Natural Science

CHEMSTRY 1140  4 credits
General Chemistry
First semester of a two-semester sequence. Basic theory and concepts; atomic structure, periodic laws, stoichiometry, gas laws, thermochemistry, solutions, the chemical bond, oxidation-reduction. (Fall, Spring)
Components: Discussion, Laboratory, Lecture
GE: Natural Science

CHEMSTRY 1240  4 credits
General Chemistry
Second semester of a two-semester sequence. Kinetics, chemical equilibrium, electrochemistry, thermodynamics, organic, descriptive and nuclear chemistry. (Fall, Spring)
Components: Discussion, Laboratory, Lecture
GE: Natural Science
Prereqs/Coreqs: P: A grade of “C” or better in CHEMSTRY 1140

CHEMSTRY 1450  5 credits
Chemistry for Engineers
A one semester course for engineering students with a strong background in high school chemistry and mathematics. Topics include measurements, atomic theory, stoichiometry, molecular structure, thermochemistry, states of matter, intermolecular forces, solutions, kinetics, equilibrium, thermodynamics, electrochemistry, solid state, material science and organic chemistry. (Fall, Spring)
Components: Discussion, Laboratory, Lecture
GE: Natural Science
Prereqs/Coreqs: P: An “A” or B” in high school chemistry or a grade of “C” or better in CHEMSTRY 1020; previous completion of undergraduate research in MATH 2530 or higher.

CHEMSTRY 2000  1 - 3 credits
Undergraduate Research
Training in research methods, use of scientific literature and evaluation of data. A student may register for 1-3 credits in a given semester. (Fall, Spring, Summer)
Components: Independent Study

CHEMSTRY 2150  4 credits
Quantitative Analysis
Theories and principles of gravimetric and volumetric analysis, equilibrium and stoichiometry of solubility, neutralization, oxidation-reduction, complexometry; introduction to absorption spectrophotometry, flame photometry, ion exchange and statistical treatment of data. (Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: “C” or better in one semester of General Chemistry

CHEMSTRY 2730  4 credits
Inorganic Chemistry
An introductory course with an emphasis on coordination chemistry, solid state chemistry, descriptive chemistry of the common representative and transition elements and metallurgy. (Fall)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: “C” or better in CHEMSTRY 1240

CHEMSTRY 3110  1 credit
Environmental Chemistry Lab
Laboratory complementary to CHEMSTRY 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: CHEMISTRY 3130 or concurrent enrollment

CHEMSTRY 3130  3 credits
Environmental Chemistry
A study of structure, composition and chemical reactions of the three major spheres of the environment: atmosphere, hydrosphere and lithosphere. Additional inquiries into the human impact on the environment and environmental toxicology are also addressed. (Fall)
Components: Lecture
Prereqs/Coreqs: P: “C” or better in CHEMSTRY 1240 or CHEMSTRY 1450
FORENSIC CHEMISTRY 3270  2 credits
Forensic Chemistry
An in-depth examination of forensic applications of chemical analysis: presumptive and confirmatory drug identification, microscopic techniques in trace evidence analysis, quality assurance and 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
Prerequisites/Corequisites: P: A grade of “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
Prerequisites/Corequisites: 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: Discussion, Laboratory, Lecture
Prerequisites/Corequisites: P: “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
Prerequisites/Corequisites: P: CHEMSTRY 3510; 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, multi-step synthesis, nuclear and mass spectrometry and pericyclic reactions. (Spring)

Components: Lecture
Prerequisites/Corequisites: P: “C” or better in CHEMSTRY 3540

CHEMSTRY 3810  1 credit
Chemical Synthesis and Characterization
For students desiring additional laboratory experience. In cooperation with the instructor, students will select experiments which require insights into the application and execution of more sophisticated techniques. (Spring)

Components: Laboratory
Prerequisites/Corequisites: P or C: CHEMSTRY 3610

CHEMSTRY 3900  1 - 3 credits
Directed Studies
Supervised individual study of a topic selected by the student and approved by the staff. A student may register for 1-3 credits in a given semester and may accumulate a total of 4 credits. (Fall, Spring, Summer)

Components: Independent Study
Prerequisites/Corequisites: 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 1-3 credits in a given semester and may accumulate a total of 4 credits.

Components: Independent Study (Fall, Spring, Summer)
Prerequisites/Corequisites: P: 18 credits in Chemistry and department consent

CHEMSTRY 4060  1 credit
Chemistry Seminar
The student will make presentations of findings in undergraduate research or in current topics of Chemistry. (Spring)

Components: Seminar

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
Prerequisites/Corequisites: P: “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
Prerequisites/Corequisites: P: “C” or better in all courses - PHYSICS 2640 and 2610 or (1240 and 1210) and MATH 2840

CHEMSTRY 4210  1 credit
Physical Chemistry Lab II
Advanced experimental studies applying theoretical principles to chemical and physical phenomena. (Spring)

Components: Laboratory
Prerequisites/Corequisites: P: “C” or better in all courses - 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
Prerequisites/Corequisites: P: “C” or better in all courses - CHEMSTRY 4130, PHYSICS 2640 and PHYSICS 2610 and MATH 2840
CHEMISTRY 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: “C” or better in both CHEMISTRY 2150 and CHEMISTRY 4130

CHEMISTRY 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:** Lecture
- **Prereqs/Coreqs:** P: ENGRPHYS 3930

CHEMISTRY 4610  1 credit

**General Biochemistry Lab**

Chemistry of biological compounds and biochemical techniques. (Spring)

- **Components:** Laboratory
- **Prereqs/Coreqs:** C: CHEMISTRY 4630 or concurrent enrollment

CHEMISTRY 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: “C” or better in CHEMISTRY 3540

CHEMISTRY 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

CHEMISTRY 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: “C” or better in CHEMISTRY 2730 and CHEMISTRY 4130

CHEMISTRY 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: “C” or better in CHEMISTRY 3630 and CHEMISTRY; C: CHEMISTRY 4230

CHEMISTRY 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: “C” or better in CHEMISTRY 4230

CHEMISTRY 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: “C” or better in CHEMISTRY 4630
The Engineering Physics program at UWP is a hybrid of applied physics, electrical engineering (EE) and mechanical engineering (ME). 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 EP 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 EP program have entered industry in such diverse areas as mechanical controls, digital and analog electronics, nuclear instrumentation, software development, manufacturing and building acoustics. 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 high quality undergraduate education in liberal studies, mathematics, science and engineering to prepare them a) to apply fundamental physics and engineering principles, mathematics and modern engineering tools to solve engineering problems, b) to be able to approach non-traditional or multi-disciplinary engineering problems, c) as good citizens, and d) for a lifetime of learning.

Curricular Goals

The Engineering Physics curriculum is 129 credits including 55 credits of engineering. The EP program provides a balanced curriculum emphasizing physics and engineering principles with design, diverse hands-on experiences to prepare the EP 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 EE and ME science includes introductory courses that provide the necessary prerequisites for further study in these two areas. The EP 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.

General Requirements

Bachelor of Science Degree

Total for Graduation: 129 credits
General Education: 31 credits
**Engineering Physics Major (98 credits)**

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

### Math Electives (3 credits)
- MATH 3230 Linear Algebra 3 cr
- MATH 3730 Numerical Analysis 3 cr
- MATH 3830 Differential Equations II 3 cr
- MATH 4030 Statistical Methods with Applications 3 cr
- MATH 4130 Probability and Statistics 3 cr
- MATH 4430 Advanced Calculus 3 cr
- MATH 4530 Complex Variables 3 cr

### Basic Sciences (18 credits)
- CHEMISTRY 1450 Chemistry for Engineers 5 cr
- PHYSICS 2530 General Physics I 3 cr
- PHYSICS 2510 General Physics I Lab 1 cr
- PHYSICS 2640 General Physics II 4 cr
- PHYSICS 2610 General Physics II Lab 1 cr
- PHYSICS 3140 Modern Physics 4 cr

### (Other)
- GENENG 1000 Engineering Success Skills 1 cr
- GENENG 1030 Engineering Projects 1 cr
- GENENG 1320 Engineering Graphics 2 cr
- COMPUTER 1430 Programming in C++ 3 cr

### Engineering Science (19-20 credits)
- GENENG 2130 Engineering Mechanics - Statics 3 cr
- ELECTENG 1210 Circuit Modeling I 3 cr
- ELECTENG 2210 Circuit Modeling II 4 cr
- ELECTENG 2220 Signals and Systems 4 cr
- MECHNCHL 2630 Thermodynamics 3 cr
- GENENG 2340 Mechanics of Materials 4 cr
- MECHNCHL 3630 Applied Thermodynamics 2 cr
- MECHNCHL 3830 Mechanics and Machines 2 cr

### Engineering Physics (20 credits)
- ENGRPHYS 3240 Applied Mechanics 4 cr
- ENGRPHYS 3640 Electric and Magnetic Fields 3 cr
- ENGRPHYS 4010 Engineering Physics Lab 2 cr
- ENGRPHYS 4140 Applied Optics 4 cr
- ENGRPHYS 4210 Sensor Lab 2 cr
- ENGRPHYS 4220 Applications of Modern Physics 2 cr
- ENGRPHYS 4930 Engineering Physics Design 3 cr

### Professional Engineering Electives (15-16 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.

### Physics Minor (24 credits)

#### Physics in Physics (Science Emphasis)
- PHYSICS 2510 General Physics I Lab 1 cr
- PHYSICS 2530 General Physics I 3 cr
- PHYSICS 2640 General Physics II 4 cr
- PHYSICS 3140 Modern Physics 4 cr

#### Plus at least 12 credits from:
- PHYSICS 2610 General Physics II Lab 1 cr
- PHYSICS 3240 Applied Mechanics 4 cr
- ENGRPHYS 3640 Electric and Magnetic Fields (Same as ELECTENG 3140) 3 cr
- ENGRPHYS 4140 Applied Optics (Same as ELECTENG 4620) 4 cr
- ENGRPHYS 4220 Applications of Modern Physics 2 cr
- ENGRPHYS 4980 Special Topics in Engineering Physics 1-3 cr
- ENGRPHYS 4990 Independent Study in Engineering Physics 1-3 cr

#### Minor in Physics (Education Emphasis)
- PHYSICS 2510 General Physics I Lab 1 cr
- PHYSICS 2530 General Physics I 3 cr
- PHYSICS 2610 General Physics II Lab 1 cr
- PHYSICS 2640 General Physics II 4 cr
- PHSC 1310 Introductory Astronomy Lab 1 cr
- PHSC 1340 Introductory Astronomy 4 cr
- PHYSICS 3140 Modern Physics 4 cr

### Grade Requirements:
1. A “C” or better is required in PHYSICS 2530, 2640, 3140 and ENGRPHYS 4010.
2. Only one “D” in engineering physics courses may be counted towards graduation.
3. An average GPA of “C” (i.e. 2.00) must be maintained in all 3000/4000 engineering courses.
Plus at least 6 credits from:

INDUSTDY 2260  Electronic Circuits  3 cr
GENENG 2930  Applications of Electrical Engineering  3 cr
GENENG 2630  Thermoscience  3 cr
ENGRPHYS 3640  Electric and Magnetic Fields  3 cr
(Same as ELECTENG 3140)
ENGRPHYS 4140  Applied Optics  4 cr
(Same as ELECTENG 4620)
ENGRPHYS 4220  Applications of Modern Physics  2 cr
ENGRPHYS 4980  Special Topics in Engineering Physics  1-3 cr
ENGRPHYS 4990  Independent Study in Engineering Physics  1-2 cr

ENGRPHYS 2950  2 credits
Engineering Physics Cooperative Education
Work experience in industry under the direction and jurisdiction of the college. Credits do not fulfill any graduation requirements.
Components: Field Studies
Prereqs/Coreqs: P: Sophomore standing

ENGRPHYS 2960  2 credits
Engineering Physics Cooperative Education
Work experience in industry under the direction and jurisdiction of the college. Credits do not fulfill any graduation requirements.
Components: Field Studies
Prereqs/Coreqs: P: Sophomore standing

ENGRPHYS 2970  1 credit
Engineering Physics Internship
Work experience in industry under the direction of the Cooperative Education Office of the college. Credits do not fulfill any graduation requirements. This program is distinct from the Cooperative Education Program and is designed to cover summer work experience.
Components: Field Studies

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, GENENG 2130; C: MATH 3630

ENGRPHYS 3640  3 credits
Electric and Magnetic Fields
Electrostatics, magnetostatics, Maxwell's equations, and transmission lines. (Fall, Spring)
Components: Discussion, Lecture
Cross Offering: ELECTENG 3140
Prereqs/Coreqs: P: ELECTENG 2220, MATH 3630 and PHYSICS 2640

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 and medicine, electronics, and new materials. Principles of operation of severeral 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  2 credits
Engineering Physics Cooperative Education
Work experience in industry under the direction and jurisdiction of the college. Credits do not fulfill any graduation requirements.
Components: Field Studies
Prereqs/Coreqs: P: Junior standing

ENGRPHYS 3960  2 credits
Engineering Physics Cooperative Education
Work experience in industry under the direction and jurisdiction of the college. Credits do not fulfill any graduation requirements.
Components: Field Studies
Prereqs/Coreqs: P: Junior standing

ENGRPHYS 3970  1 credit
Engineering Physics Internship
Work experience in industry under the direction of the Cooperative Education Office of the college. Credits do not fulfill any graduation requirements. This program is distinct from the Cooperative Education program and is designed to cover summer work experience.
Components: Field Studies

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

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, ELECTENG 2210 and COMPUTER 1430; C: ENGRPHYS 4010
Applications of Modern Physics
Applications of quantum mechanics, statistical mechanics and solid state physics to engineering and technology. (Fall)

Components: Lecture
Prereqs/Coreqs: P: PHYSICS 3140; C: MATH 3630

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 year of graduation

Special Topics In Engineering Physics
A presentation of selected contemporary topics in physics.

Components: Lecture
Prereqs/Coreqs: P or C: PHYSICS 4930

Physics Courses

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, MATH 1530 or mathematics proficiency level of 15 or above

Introductory Physics I Laboratory
Experiments involving Newtonian concepts, thermodynamics and wave motion. (Fall)

Components: Laboratory
GE: Natural Science
Prereqs/Coreqs: P: PHYSICS 1140

Introductory Physics I
Newtonian concepts, thermodynamics, kinetic theory, wave motion. (Fall)

Components: Discussion, Lecture
GE: Natural Science
Prereqs/Coreqs: P: MATH 1530, MATH 2450 or math proficiency level of 30 or above

Introductory Physics II Laboratory
Experiments involving principles of electricity, magnetism, electronics, optics and modern physics. (Spring)

Components: Laboratory
GE: Natural Science
Prereqs/Coreqs: P or C: PHYSICS 1240

Introductory Physics II
A continuation of Physics 1140, including work in electricity and magnetism, electronics, optics and modern physics. (Spring)

Components: Discussion, Lecture
GE: Natural Science
Prereqs/Coreqs: P: PHYSICS 1140

General Physics I Lab
An introduction to experimental techniques and elemental laboratory investigations of mechanical systems. (Fall, Spring)

Components: Laboratory
GE: Natural Science
Prereqs/Coreqs: P or C: PHYSICS 2530

General Physics I
Mechanics and wave properties for students of engineering, mathematics, physics and other sciences. (Fall, Spring)

Components: Discussion, Laboratory, Lecture
GE: Natural Science
Prereqs/Coreqs: P or C: MATH 2740

General Physics II Laboratory
An investigation of elementary electricity, magnetism, optics and modern physics. (Fall, Spring)

Components: Laboratory
GE: Natural Science
Prereqs/Coreqs: P or C: PHYSICS 2640

General Physics II
Electricity, magnetism and optics. (Fall, Spring)

Components: Discussion, Laboratory, Lecture
GE: Natural Science
Prereqs/Coreqs: P: PHYSICS 2530 with a “C” or better; and P or C: MATH 2840

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 2640 with a “C” or better and MATH 2840
The College of Engineering, Mathematics and Science administers an interdepartmental broad field science major and a natural science major.

**Broad Field Science Comprehensive Major**

The Broad Field Science Comprehensive major (along with an early adolescence-adolescence education major) 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 1350 General Botany 5 cr
- BIOLOGY 1450 General Zoology 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
- GEOLOGY 1140 Geomorphology 4 cr

**Physics**
- PHYSICS 1140 Introductory Physics I 4 cr
- PHYSICS 1110 Introductory Physics I Lab 1 cr
- PHYSICS 1240 Introductory Physics II 4 cr
- PHYSICS 1210 Introductory Physics II Lab 1 cr

(Or the sequence PHYSICS 2510, 2530, 2610, 2640, for 9 credits)

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

**Biology**
- BIOLOGY 3230 Freshwater Biology 3 cr
  or
- BIOLOGY 3430 General Ecology 3 cr
- BIOLOGY 2240 Anatomy and Physiology II 4 cr
  or
- BIOLOGY 2340 Essentials of Anatomy and Physiology 4 cr

**Chemistry**
- CHEMISTRY 2150 Quantitative Analysis 4 cr
- CHEMISTRY 3540 Organic Chemistry Lecture 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:**

**Astronomy**
- PHSC 1340 Introductory Astronomy 4 cr
  and
- PHSC 1310 Introductory Astronomy Lab 1 cr
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 toward 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
Civil Engineering Major

The Civil Engineering program at UW-Platteville 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 is 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; the 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 and Environmental Engineering Program Objectives

Our goal is to provide students with a professional practice-oriented educational background that will enable them to enter and succeed in their future careers. Specific objectives for attaining this goal are:

1. Successfully apply technical knowledge to solve engineering problems.
2. Effectively and accurately communicate technical information orally and in writing.
3. Demonstrate progress towards obtaining professional engineering licensure.

General Requirements

Bachelor of Science Degree

Total for Graduation .........................134 credits
Major Studies ................................103 credits
Civil Engineering Major (103 credits)

<table>
<thead>
<tr>
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<td>MATH 2640</td>
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<td>Basic Thermoscience for Engineers</td>
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<tr>
<td>or GENENG 2930</td>
<td>Applications of Electrical Engineering</td>
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<tr>
<td>CIVILENG 2120</td>
<td>Computer Applications</td>
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<tr>
<td>CIVILENG 3020</td>
<td>Construction Engineering</td>
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<tr>
<td>CIVILENG 3030</td>
<td>Construction Materials</td>
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<tr>
<td>CIVILENG 4930</td>
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Civil Engineering Technical Electives
(All students must complete one of the following areas with a minimum of 14 credits)

**Construction Engineering**
- CIVILENG 4020 Cost and Estimates 3 cr
- CIVILENG 4030 Construction Equipment 3 cr
- CIVILENG 4040 Construction Management 3 cr
- CIVILENG Other* 6 cr

**Geotechnical Engineering**
- CIVILENG 4160 Foundation Design 3 cr
- CIVILENG 4730 Geotechnical Engineering II 3 cr
- CIVILENG Other* 8 cr

**Environmental Engineering**
- CIVILENG 4410 Wastewater and Drinking Water Treatment (Required) 3 cr
- CIVILENG Other* 5 cr

**Any 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

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Structural Engineering
- CIVILENG 4100 Computer Analysis of Structures 3 cr
- CIVILENG 4160 Foundation Design 3 cr
- CIVILENG 4230 Steel Design 3 cr
- CIVILENG Other* 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 Other* 5 cr

Municipal Engineering
- CIVILENG 4300 Hydrology 3 cr
- CIVILENG 4400 Municipal Hydraulics 3 cr
- CIVILENG 4500 Highway Engineering 3 cr
- CIVILENG 4550 Traffic Engineering 3 cr
- CIVILENG 4520 Pavement Design 3 cr
- CIVILENG 4560 Pavement Maintenance and Rehabilitation 2 cr
- CIVILENG Other* 2-3 cr

*Any 4000 level CIVILENG class

Program Requirements: A grade of “C” or higher must be earned in all courses which are prerequisites for other CIVILENG courses.

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ENVIRONMENTAL ENGINEERING MAJOR

The University of Wisconsin-Platteville offers an environmental engineering program which 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 environmental engineering program at the University of Wisconsin-Platteville 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, for the protection of 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 conduct studies of streams, lakes, air, soil and groundwater that are polluted 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 environmental engineers work together with city or county officials, regulatory officials, consultants and nearby residents to achieve a solution to pollution problems.

Civil and Environmental Engineering Program Objectives

Our goal is to provide students with a professional practice-oriented educational background that will enable them to enter and succeed in their future careers. Specific objectives for attaining this goal are:
1. Successfully apply technical knowledge to solve engineering problems.
2. Effectively and accurately communicate technical information orally and in writing.
3. Demonstrate progress towards obtaining professional engineering licensure.

General Requirements

Bachelor of Science Degree

Total for Graduation .......................... 132 credits
Major Studies .................................. 98 credits

Environmental Engineering Major

(98 credits)

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CIVILENG 3300 Fluid Mechanics 4 cr
CIVILENG 3340 Environmental Engineering 4 cr
CIVILENG 3730 Geotechnical Engineering I 3 cr
CIVILENG 4300 Hydrology 3 cr
CIVILENG 4310 Groundwater Hydrology 3 cr
CIVILENG 4330 Solid and Hazardous Waste 3 cr
CIVILENG 4400 Municipal Hydraulics 3 cr
CIVILENG 4410 Wastewater and Drinking Water Treatment 3 cr
CIVILENG 4930 Design Project 3 cr

Environmental Engineering Technical Electives
(12 credits):

CIVILENG 3020 Construction Engineering 3 cr
CHEMSTRY 3540 Organic Chemistry 4 cr
CIVILENG 4020 Construction Estimating 3 cr
CIVILENG 4040 Construction and Professional Management 3 cr
CIVILENG 4630 Geographic Information Systems 3 cr
GEOGRAPHY 3230 Geographic Information Systems 3 cr
CIVILENG 4730 Geotechnical Engineering II 3 cr
CIVILENG 4980 Special Topics 1-4 cr
CHEMSTRY 2150 Quantitative Analysis 5 cr
CHEMSTRY 4630 Biochemistry 3 cr
AGINDUS 3950 Soil Conservation 3 cr
AGINDUS 3950 Soil Conservation Engineering Practices 3 cr
CRIMLJUS 3800 Environmental Law 3 cr
AGSCI 4350 Soil and Water Conservation 3 cr
AGSCI 4350 Soil and Water Conservation 3 cr
BIOLG 3430 Ecology 3 cr
BIOLG 3110 Freshwater Biology 3 cr
CIVILENG 4440 Stormwater, Wetlands and Watershed Management 3 cr
CIVILENG 4640 Land Development and Planning 3 cr

Program Requirements: A grade of “C” or higher must be earned in all courses which are prerequisites for other CIVILENG courses.

CIVIL ENGINEERING COURSES

CIVILENG 2120 Civil Engineering Computer Applications

Engineering problem solution using spreadsheets, MathCAD, and Civil 3D. Spreadsheet and MathCAD applications including 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
Prereq/Coreq: 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: GENENG 1320 or INDUSTDY 1230; CIVILENG 2120 and CIVILENG 2630

CIVILENG 2950  2 credits

Civil and Environmental Engineering Cooperative Education
Work experience in industry under the direction and jurisdiction of the College of Engineering, Mathematics and Science. Credits do not fulfill any graduation requirements. (Fall, Spring, Summer)

Components: Field Studies
Prereqs/Coreqs: P: Sophomore standing and a cumulative GPA of 2.50

CIVILENG 2960  2 credits

Civil Engineering Cooperative Education
Work experience in industry under the direction and jurisdiction of the College of Engineering, Mathematics and Science. Credits do not fulfill any graduation requirements. (Fall, Spring, Summer)

Components: Field Studies
Prereqs/Coreqs: P: Sophomore standing and a cumulative GPA of 2.50

CIVILENG 2970  1 credit

Civil Engineering Internship
Work experience in industry under the direction of the Cooperative Education Office of the College of Engineering, Mathematics and Science. Note: This program is separate and distinct from the Cooperative Education Program and is principally designed to cover the summer vacation period. Credits do not fulfill any graduation requirements. Department consent required. (Summer)

Components: Field Studies

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: P: CIVILENG 2120; C: 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: GENENG 2340 and 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: CIVILENG 3100 and CIVILENG 3030

CIVILENG 3300  3 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: CIVILENG 2120; 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: CHEMISTRY 1450 and CIVILENG 2120 or COMPUTER 1830

CIVILENG 3530  3 credits

Transportation Engineering
Introductory overview of transportation systems with emphasis on the highway mode of transportation. Topics include fundamentals of transportation economics, land-use and transportation interaction, elements of transportation planning, traffic operations, concepts of highway locations and geometric design and introduction to flexible and rigid pavement systems. (Fall, Spring)

Components: Laboratory, Lecture
Prereqs/Coreqs: P: CIVILENG 2120 and CIVILENG 2630

CIVILENG 3730  3 credits

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  2 credits
Civil and Environmental Engineering Cooperative Education
Work experience in industry under the direction and jurisdiction of the College of Engineering, Mathematics and Science. Credits do not fulfill any graduation requirements. (Fall, Spring, Summer)
  Components: Field Studies
  Prereqs/Coreqs: P: Junior standing

CIVILENG 3960  2 credits
Civil and Environmental Engineering Cooperative Education
Work experience in industry under the direction and jurisdiction of the College of Engineering, Mathematics and Science. Credits do not fulfill any graduation requirements. (Fall, Spring, Summer)
  Components: Field Studies

CIVILENG 3970  1 credit
Civil and Environmental Engineering Internship
Work experience in industry under the direction of the Cooperative Education Office of the College of Engineering, Mathematics and Science. Note: This program is separate and distinct from the Cooperative Education Program and is principally designed to cover the summer vacation period. Credits do not fulfill any graduation requirement. (Fall, Spring, Summer)
  Components: Field Studies

CIVILENG 4020  3 credits
Construction Estimates and Costs
Methods of estimating, extending and pricing; use of blue prints, specifications and commercial cost sheets to bid a complete project; scheduling and pricing of labor. (Spring)
  Components: Laboratory, Lecture
  Prereqs/Coreqs: P: CIVILENG 3020 or INDUSTDY 2540

CIVILENG 4030  2 credits
Construction Equipment
Excavation methods and equipment; equipment 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: CIVILENG 3020 or INDUSTDY 2540

CIVILENG 4040  3 credits
Construction and Professional Management
Construction management decision making; engineering economic comparisons, scheduling, bidding techniques, introduction to labor agreements, safety and QA/QC. (Spring)
  Components: Lecture
  Prereqs/Coreqs: P: CIVILENG 3020 or INDUSTDY 2540; G: MATH 4030

CIVILENG 4100  3 credits
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. (Fall)
  Components: Lecture
  Prereqs/Coreqs: P: CIVILENG 3100

CIVILENG 4160  3 credits
Foundation Design
Bearing capacities and lateral earth pressures, design and computer application of shallow foundations, piles and caissons, retaining structures. (Fall)
  Components: Lecture
  Prereqs/Coreqs: P: CIVILENG 3730; G: CIVILENG 3150

CIVILENG 4230  3 credits
Steel Design
Behavior and properties of structural steel, proportioning of members and connections, AISC-LRFD specifications. Integrated design project. (Spring)
  Components: Discussion, Laboratory, Lecture
  Prereqs/Coreqs: P: CIVILENG 3100

CIVILENG 4250  3 credits
Wood Structures
Anisotropic properties of wood; wood connectors; solid wood members; beams, columns and beam columns; plywood; glulam beams and arches; integrated design project. (Spring)
  Components: Lecture
  Prereqs/Coreqs: P: CIVILENG 3100

CIVILENG 4300  3 credits
Hydrology
Hydrologic cycle and data collection; rainfall-runoff relationships and models; statistical analysis of streamflow and precipitation measurements; runoff estimation using Rational, TR55 and USGS Regression methods and computer models; hydrograph analysis; detention pond and outlet structure design; culvert design and analysis; water surface profile analysis. (Spring)
  Components: Laboratory, Lecture
  Prereqs/Coreqs: P: CIVILENG 3300 and MATH 4030 or MATH 1830 and CIVILENG 3340

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: CIVILENG 3300
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: 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 4450  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: 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, sub-base and pavement materials; frost action; economic considerations. (Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: 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: CIVILENG 3530; C: MATH 4030

CIVILENG 4560  2 credits

Pavement Maintenance and Rehab
Evaluation of pavement distresses and the maintenance techniques used for their repair. Survey and evaluation methods, maintenance equipment and procedures, rehabilitation techniques and identification of the most cost-effective option. Maintenance management software will be used to evaluate options. Guest speakers will be used for selected topics. (Spring)
Components: Lecture
Prereqs/Coreqs: P: CIVILENG 3530 and CIVILENG 3030

CIVILENG 4630  3 credits

Geographic Information Systems
Basic GIS concepts in cartography and digital mapping, geodetic data 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: 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: C: CIVILENG 4300

CIVILENG 4730  3 credits

Geotechnical Engineering II
Review elements of soil mechanics; water in soil; slope stability; lateral earth pressures; sheet pile walls; geotextile applications; computer applications. (Spring)
Components: Lecture
Prereqs/Coreqs: P: CIVILENG 3730

CIVILENG 4930  3 credits

Civil and Environmental Engineering Design Project
Open-ended comprehensive design in student’s area of specialization. Discussion and experience in project management, work as a team, written reports and presentations, computer aided design and ethics. (Fall, Spring)
Components: Laboratory, Lecture

CIVILENG 4980  1 - 4 credits

Current Topics in Engineering
In-depth study of a current topic of interest to the engineering profession. The topic to be covered will be identified in the course title. (Fall, Spring)
Components: Lecture

CIVILENG 4990  1 - 3 credits

Independent Study
Advanced study in area of specialization selected by student and approved by faculty member. (Fall, Spring, Summer)
Components: Independent Study
Software engineering is the application of sound engineering principles and techniques to the analysis, design, development, testing and management of software systems. Its goal is the production of high quality software, on time and within budget. To achieve this goal, engineering practices are blended with traditional computer science techniques. Software engineering integrates knowledge from areas such as engineering, analysis and design, programming languages, verification and validation, database management, data communications and networking and computer architecture.

### 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; an
6. the ability to engage in lifelong learning and recognize its importance.

### Computer Science Outcomes

1. **Foundation**: Graduates will have a solid foundation in computer science. These graduates will be able to apply this fundamental knowledge to both their immediate professional software development tasks, as well as to acquiring new professional skills throughout their lifetime.
2. **Development**: Graduates will be able to engage in effective software development practices over the entire system life cycle. This includes requirements, analysis, design, implementation and testing.
3. **Professionalism**: Graduates will conduct themselves ethically, honestly and professionally in all work environment activities. These activities include all interactions with employers, team members and peers, as well as customers.
4. **Quality**: Graduates will use industry recognized best practices to design, develop and deliver software that meets or exceeds applicable standards for utility, reliability, robustness, performance, correctness, maintainability, reusability, portability and economy.
5. **Presentation:** Graduates will be capable of effective written and oral communication. Graduates will be capable of preparing and publishing the necessary project documents involved in the specification, design, testing and deployment of software. Graduates will also be capable of actively participating in customary project discussions, 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, to study new language processes and generally adapt to new surroundings throughout their careers. This outcome is particularly critical due to the rapid evolution and rapid obsolescence of computer science knowledge and practices.

### Computer Science General Requirements

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 \[ \ldots \] 120 credits

General Education \[ \ldots \] 43-57 credits

Major \[ \ldots \] 67-72 credits

**Bachelor of Arts Degree**

Total for Graduation \[ \ldots \] 120 credits

General Education \[ \ldots \] 43-57 credits

(includes an additional 9 credits in upper division coursework in Humanities, Fine Arts or Social Sciences)

Major \[ \ldots \] 67-72 credits

### COMPUTER SCIENCE MAJOR

Students completing a Bachelor of Arts degree in computer science must complete an additional 9 credits of upper-division coursework from Humanities, Fine Arts or Social Sciences in addition to the course work specified for their chosen emphasis and university requirements.

Students completing a Bachelor of Science degree in computer science need only to complete the course work specified for their chosen emphasis and university requirements. All computer science majors must complete at least 38 credits in computer science (not including Computer Science 1130, 1830 or 2830) and the requirements in one of the emphasis areas of computer information systems or computer technology.

All majors must earn at least a “C” in each computer science course listed as a requirement in the emphasis selected and the core requirements.

### Major Core Requirements

**Required Courses (23 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER 1010</td>
<td>Introduction to Computer Science</td>
<td>1 cr</td>
</tr>
<tr>
<td>COMPUTER 1430</td>
<td>Programming in C++</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 2230</td>
<td>Programming in COBOL</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 2430</td>
<td>Object Oriented Programming and Data Structures I</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3630</td>
<td>Database Design and Implementation</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 4110</td>
<td>Seminar</td>
<td>1 cr</td>
</tr>
<tr>
<td>ECONOMIC 2130</td>
<td>Principles of Macroeconomics</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3000</td>
<td>Technical Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 2330</td>
<td>Leadership and Management</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

### Computer Technology Emphasis

**Required Courses (35 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER 2630</td>
<td>Object Oriented Programming</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3230</td>
<td>Computer Architecture and Operating Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3780</td>
<td>Introduction to Microprocessors</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3430</td>
<td>Object Oriented Analysis and Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3520</td>
<td>Programming Language Structures</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3830</td>
<td>Data Communication and Computer Networking</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 2640</td>
<td>Calculus and Analytical Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 2740</td>
<td>Calculus and Analytical Geometry II</td>
<td>4 cr</td>
</tr>
<tr>
<td>MATH 3230</td>
<td>Linear Algebra</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOFTWARE 2730</td>
<td>Introduction to Software Engineering</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 2730</td>
<td>Discrete Mathematics</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

### Electives (9 credits):

Select 9 credits from any other Computer Science courses (excluding 1130, 1830 and 2830) and Software Engineering courses 3330, 3530, 3860, 4130, 4330 or 4730 and Electrical Engineering 3770. At least 6 credits must be 3000 level or higher. COMPUTER 2990, 4830, 4930 and 4990 can be counted only with the consent of the department.

### Computer Information Systems Emphasis

**Required Courses (36-37 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER 3130</td>
<td>Systems Analysis and Design</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3230</td>
<td>Computer Architecture and Operating Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 3530</td>
<td>Systems Develop and Implementation</td>
<td>3 cr</td>
</tr>
<tr>
<td>COMPUTER 4230</td>
<td>Applications in Information Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING 2010</td>
<td>Financial Accounting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING 2020</td>
<td>Management Accounting II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ACCTING 3000</td>
<td>Accounting Issues for Managers</td>
<td>3 cr</td>
</tr>
<tr>
<td>or ACCTING 3010</td>
<td>Intermediate Accounting I</td>
<td>3 cr</td>
</tr>
<tr>
<td>or ACCTING 3230</td>
<td>Cost Accounting</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 1300</td>
<td>Global Business</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
BUSADMIN 4110 Management Science 3 cr
or
BUSADMIN 4120 Operations Management 3 cr
ECONOMIC 2230 Principles of Microeconomics 3 cr
ECONOMIC 2410 Interpretation of Business and Economic Data
or
MATH 1830 Elementary Statistics 3 cr
or
MATH 4030 Statistical Methods with Applications 3 cr
MATH 2630 Calculus with Applications 3 cr
or
MATH 2640 Calculus and Analytic Geometry I 4 cr

Electives (Select 12 credits):

COMPUTER 2340 Programming in Visual Basic 3 cr
COMPUTER 2630 Object Oriented Programming and Data Structures II 3 cr
COMPUTER 3340 Windows Programming 3 cr
COMPUTER 3830 Data Communication and Computer Networks 3 cr
COMPUTER 3870 Web Protocols, Technologies and Applications 3 cr
COMPUTER 3930 CICS Application Programming 3 cr
COMPUTER 2990, 4830, 4930 and 4990 can be counted only with the consent of the department

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):

COMPUTER 1430 Programming in C++ 3 cr
COMPUTER 2430 Object Oriented Programming and Data Structures I 3 cr
COMPUTER 3230 Computer Arch Operating Systems 3 cr
or
ELECTENG 3780 Introduction to Microprocessors 3 cr

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. Minimum cumulative GPA of 2.00 in the electives. We suggest that students consult with a computer science advisor to plan a minor program.

SOFTWARE ENGINEERING
http://www.uwplatt.edu/sse

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Associate Professor:
Mike Rowe

Assistant Professor:
Syed (Shawon) Rahman

Administrative Assistant:
Mary Jo Stutenberg

About the Department and Major

Software engineering is the application of sound engineering principles and techniques to the analysis, design, development, testing and management of software systems. Its goal is the production of high quality software, on time and within budget. To achieve this goal, engineering practices are blended with traditional computer science techniques. Software engineering integrates knowledge from areas such as engineering, analysis and design, programming languages, verification and validation, database management, data communications and networking and computer architecture.

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 our 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.

General Requirements
Bachelor of Science Degree
Total for Graduation: 128 credits
Major: 103 credits

Software Engineering Major (103 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
MATH 3230 Linear Algebra 3 cr
or
MATH 3630 Differential Equations I 3 cr

Basic Sciences (12 credits)

PHYSICS 2530 General Physics I 3 cr
PHYSICS 2510 General Physics I Lab 1 cr
PHYSICS 2640 General Physics II 4 cr
Non-Physics course 4 cr

Software Engineering Required Courses (31 credits)

SOFTWARE 2430 Object-Oriented Programming and Data Structures I 3 cr
SOFTWARE 2630 Object-Oriented Programming and Data Structures II 3 cr
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

Professional Engineering-Required Courses (28 credits)

COMPUTER 1430 Programming in C++ 3 cr
COMPUTER 3230 Computer Architecture and Operating Systems 3 cr
COMPUTER 3520 Programming Language Structures 3 cr
COMPUTER 3030 Artificial Intelligence 3 cr
COMPUTER 3630 Database Design and Implementation 3 cr
COMPUTER 3830 Data Communication and Computer Networks 3 cr
ELECTENG 1210 Circuit Modeling I 2 cr
ELECTENG 3770 Logic and Digital Design 3 cr
ELECTENG 3780 Introduction to Microprocessors 3 cr
ELECTENG 4720 Microprocessor Architecture and Interfacing 4 cr

Other Required Courses (10 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
PHLSPHY 2540 Science, Technology and Ethics 3 cr

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++
Covers core programming skills including procedural programming in C++, algorithms, modularity and abstraction. Weekly labs reinforce lecture material. Out-of-class assignments give the student a chance to tie the concepts together and to learn basic programming style, documentation and development skills necessary for working in a team environment. (Fall, Spring, Summer)

Components: Laboratory, Lecture

Prereqs/Coreqs: Prior programming experience, such as that provided by COMPUTER 1130, is recommended.
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
Cross Offering: SOFTWARE 2430
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/SOFTWARE 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
Cross Offering: SOFTWARE 2630
Prereqs/Coreqs: P: COMPUTER/SOFTWARE 2430

COMPUTER 2830 3 credits
Advanced Microcomputer Applications
This course is designed to acquaint the students with additional microcomputer applications beyond that of COMPUTER 1830.

In particular, the major emphasis will be on configuration and setup of microcomputers; communication software (the use of the Internet); presentation software; multimedia; advanced spreadsheet topics such as advanced graphing, macros and data analysis; and an application related to the student's major. A presentation and paper will be developed by the student on a particular software application, e.g. an expert system, an accounting package, decision making software, Human Resource Information System (HRIS), etc. (Spring)

Components: Lecture
Prereqs/Coreqs: P: COMPUTER 1830

COMPUTER 2990 1 - 3 credits
Computer Science Special Topics
The subject matter and instructor for each instance of this class will be listed in the class schedule. Students should check with the instructor for details.

Components: Lecture

COMPUTER 3030 3 credits
Artificial Intelligence
A study of knowledge representation, search techniques, expert systems, predicate calculus and natural languages. Discussion of the successes and limitations of past and current AI programs. Programming assignments in LISP and Prolog illustrate formal topics. (Spring odd years)

Components: Lecture
Prereqs/Coreqs: P: COMPUTER/SOFTWARE 2430 and MATH 2730

COMPUTER 3130 3 credits
Systems Analysis and Design
Provide an understanding of the duties of the systems analyst and the specific methods and techniques for system development (preliminary survey through system design) with an introduction to utilizing CASE software throughout the entire process. (Fall)

Components: Lecture
Prereqs/Coreqs: P: COMPUTER 2230

COMPUTER 3230 3 credits
Computer Architecture/Operating Systems
This course combines the strengths of two areas: Assembler Language Programming and Operating Systems. The major areas of assembler such as architecture, data types, logic and control and interrupts will be covered. The major areas of Operating Systems including processes, mutual exclusion, critical sections, parallel processing, real and virtual storage, job scheduling and UNIX, VMS and NT will be emphasized. (Spring)

Components: Lecture
Prereqs/Coreqs: P: COMPUTER/SOFTWARE 2430

COMPUTER 3340 3 credits
Windows Programming
Continuation of Windows programming techniques. Discussion of the Component Object Model (COM), Dynamic Link Library (DLL) and the Windows Application Programming Interface (API). Study also includes the Windows common controls, some Internet controls and Dynamic HTML (DHTML). (Spring)

Components: Lecture
Prereqs/Coreqs: P: COMPUTER 2340 and COMPUTER/SOFTWARE 2430
COMPUTER 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: SOFTWARE 3430

COMPUTER 3520 3 credits
Programming Language Structures
A study of programming language topics which include data objects, data types, storage management, syntax, BNF descriptions, semantics, lexical analysis and parsing. Examples taken from languages with different characteristics such as Ada, APL, C, FORTRAN, LISP, Modula-2, Prolog and SNOBOL. (Fall)
Components: Lecture
Prereqs/Coreqs: P: COMPUTER/SOFTWARE 2630

COMPUTER 3530 3 credits
Systems Development and Implementation
Strategies and techniques of analysis and design for producing logical methodologies for dealing with complexity in the development and implementation of information systems. Use of software tools, file access methods and operating system facilities. (Spring)
Components: Lecture
Prereqs/Coreqs: P: COMPUTER 3130

COMPUTER 3630 3 credits
Database Design and Implementation
This course will explore fundamental concepts necessary for the design, use and implementation of database systems. Study of database modeling and design, languages and facilities provided by the database management systems and techniques for implementing database systems will be examined. Major database models will be discussed with primary focus on the relational database model and query languages. (Spring)
Components: Lecture
Prereqs/Coreqs: P: COMPUTER/SOFTWARE 2430

COMPUTER 3830 3 credits
Data Communications and Computer Networks
An introduction to data communications and computer networks. Topics include network architectures and topologies, network analysis and the layered approach to data communication, concentrating on the data link and network layers. (Fall)
Components: Lecture
Prereqs/Coreqs: P: COMPUTER/SOFTWARE 2430

COMPUTER 3920 3 credits
Computer Graphics
An introduction to computer graphics including raster hardware, standard graphics software packages and important algorithms such as window-to-viewpoint software packages and important algorithms such as window-to-viewpoint mapping; clipping of lines, characters and polygons; 2D and 3D transformations and hidden line/surface removal. (Fall odd years)
Components: Lecture
Prereqs/Coreqs: P: COMPUTER/SOFTWARE 2630 and MATH 3230

COMPUTER 3930 3 credits
CICS Application Programming
An introduction to CICS command-level programming using COBOL. Techniques to design and develop online application programs with CICS, a data communication system to maintain and access files and databases. (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 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 course, 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 and SOFTWARE 3430

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
SOFTWARE ENGINEERING COURSES

SOFTWARE 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
  Cross Offering: COMPUTER 2430
  Prereqs/Coreqs: P: SOFTWARE 1430

SOFTWARE 2630  3 credits
Object-Oriented Programming and Data Structures II
Continuation of the object-oriented programming and data structure topics from COMPUTER/SOFTWARE 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
  Cross Offering: COMPUTER 2630
  Prereqs/Coreqs: P: SOFTWARE/SOFTWARE 2430

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)
  Components: Lecture
  Prereqs/Coreqs: C: SOFTWARE/SOFTWARE 2430

SOFTWARE 2950  2 credits
Software Engineering Cooperative Education
Work experience in industry under the direction and jurisdiction of the college. (Fall, Spring)
  Components: Field Studies
  Prereqs/Coreqs: P: Sophomore standing

SOFTWARE 2960  2 credits
Software Engineering Cooperative Education
Work experience in industry under the direction and jurisdiction of the college. (Fall, Spring)
  Components: Field Studies
  Prereqs/Coreqs: P: Sophomore standing

SOFTWARE 2970  1 credit
Software Engineering Internship
Work experience in industry under the direction of the Cooperative Education Office of the College of EMS. NOTE: This program is separate and distinct from the Cooperative Education Program and is principally designed to cover the summer vacation period.
  Components: Field Studies
  Prereqs/Coreqs: P: Sophomore standing

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: SOFTWARE 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
  Cross Offering: COMPUTER 3430
  Prereqs/Coreqs: P: SOFTWARE 2730 and COMPUTER/SOFTWARE 2430

SOFTWARE 3730  3 credits
Software Quality
Study of the topics related to producing quality software, including software quality assurance, quality metrics, configuration management, verification and validation, reviews, inspections, audits, and software process improvement models. Individual and team projects. (Fall)
  Components: Laboratory, Lecture
  Prereqs/Coreqs: P: SOFTWARE 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 and 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: SOFTWARE 2630 and SOFTWARE 3430
SOFTWARE 3950  2 credits
Software Engineering Cooperative Education
Work experience in industry under the direction and jurisdiction of the college. (Fall, Spring)
   Components: Field Studies
   Prereqs/Coreqs: P: Junior standing

SOFTWARE 3960  2 credits
Software Engineering Cooperative Education
Work experience in industry under the direction and jurisdiction of the college. (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 Cooperative Education Office. NOTE: This program is separate and distinct from the Cooperative Education Program and is principally designed to cover the summer vacation period. (Summer)
   Components: Field Studies
   Prereqs/Coreqs: P: Junior standing

SOFTWARE 4110  1 credit
Software Engineering Seminar
The course consists of lectures/discussions presented by both software engineering faculty and students enrolled in the class. (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/SOFTWARE 2630 and COMPUTER/SOFTWARE 3430 and ELECTENG 3780.

SOFTWARE 4330  3 credits
Software Engineering Project I
Emphasis in applying software engineering knowledge learned in this course and previous courses to a large, team-based, capstone project that spans two semesters. In-depth study of several software engineering topics introduced in earlier courses, such as requirements engineering; analysis and design methods; planning and estimation; project management; and metrics. An introduction to formal methods for specification and design. (Fall)
   Components: Discussion, Laboratory, Lecture
   Prereqs/Coreqs: P: SOFTWARE 3330 and SOFTWARE 3430

SOFTWARE 4730  3 credits
Software Engineering Project II
The project started in SOFTWARE 4330 is continued and carried to completion. In-depth study of several software engineering topics introduced in earlier courses, such as software construction tools and issues; unit development, review, testing, and maintenance; software reuse; and metrics. An introduction to current research issues in software engineering. (Spring)
   Components: Discussion, Laboratory, 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

SOFTWARE 4990  1 - 3 credits
Independent Study
**Chair:** Mesut Muslu  
**Office:** Ottensman 171  
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**Professors:**  
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Yong Y. Li  
Mesut Muslu  
Piyare L. Sharma  
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**Associate Professors:**  
Dale Buechler  
Nader Safari-Shad  
Philip J. Sealy

**Assistant Professors:**  
Gang Feng  
Xiaomin Kou  
Liya Ni  
Steven Popovich

**Lecturer:**  
John Goomey

**Administrative Assistant:**  
Rose Durni

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**Majors**  
Electrical Engineering  
Communications and Electronics  
Controls  
Computers  
Power and Energy

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**About the Department and Major**

The 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, computers, power and energy, or communications and electronics. The program has outstanding laboratory and computer facilities where all students gain hands-on practical experience. 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.

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**Educational Mission, Goals and Expected Student Learning Outcomes**

**Mission statement:** The mission of the 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

- the ability to apply science, engineering science and mathematics to solve engineering problems.
- the ability to put their engineering and design skills into practice.
- the ability to use industrial-quality laboratory equipment and engineering software for analysis, testing, design and communication.
- the ability to design systems, components and processes that satisfy predetermined constraints.
- 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.

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

- the ability to communicate their ideas and designs clearly orally, in written form and graphically.
- the ability to work as members of a team.
- 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:

- understand ethical principles and their role in the engineering profession.

4. 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:

- have sufficient knowledge of the humanities and social sciences to understand contemporary issues concerning the interaction between technology and society.
- 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:

- 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.
- have the ability to earn graduate degrees or pursue other continuing education opportunities.

**General Requirements**

**Bachelor of Science Degree**

Total for Graduation.......................... 131 credits
Major Studies .................................... 103 credits

Grades of “C” or better are required in all electrical engineering courses counted toward degree requirements.

**Electrical Engineering Major (103 credits)**

**Mathematics (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 3230 Linear Algebra 3 cr
- MATH 3830 Differential Equations II 3 cr
- MATH 4030 Statistical Methods 3 cr
  
  with Applications
- MATH 4430 Advanced Calculus 3 cr
- MATH 4530 Complex Variables 3 cr
  
  (For computer emphasis only)

**Basic Sciences (17 credits):**

- CHEMSTRY 1450 Chemistry for Engineers 5 cr
- PHYSICS 2530 General Physics I 3 cr
- PHYSICS 2510 General Physics I Lab 1 cr
- PHYSICS 2640 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
- PHIL 2540 Science, Technology and Ethics 3 cr

**Engineering Science Electives (6 credits):**

- GENENG 2130 Engineering Mechanics-Statics 3 cr
  
  (required)
- GENENG 2220 Engineering Mechanics-Dynamics 2 cr
- GENENG 2230 Engineering Mechanics-Dynamics 3 cr
- GENENG 2340 Mechanics of Materials 4 cr
- GENENG 2630 Basic Thermoscientific Engineering 3 cr
- MECHNCHL 2630 Thermodynamics 3 cr
- CIVILENG 3300 Fluid Mechanics 4 cr

**Electrical Engineering Required Courses (36 credits):**

- 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 3130 Solid State Electronics 3 cr
- ELECTENG 3140 Electric and Magnetic Fields 3 cr
- ELECTENG 3310 Automatic Controls 3 cr
- ELECTENG 3410 Electric Power Engineering 3 cr
- ELECTENG 3610 Communication Systems 3 cr
- ELECTENG 3770 Logic and Digital Design 3 cr
- ELECTENG 3780 Introduction to Microprocessors 3 cr

**Electrical Engineering Professional Emphasis Electives (16 credits)**

Each student shall complete a total of 16 credits including 8 hours of design as follows: at least 2 courses from one professional emphasis and at least 2 of the following courses: ELECTENG 4050, 4350, 4450, and 4750.

**Communications and Electronics Emphasis**

- ELECTENG 4010 UHF Amplifier Design 1 cr
- ELECTENG 4020 UHF Oscillator Design 1 cr
- ELECTENG 4050 Advanced Analog Electronic Circuits 4 cr
- ELECTENG 4430 Power Electronics and Electrical Machines 4 cr
- ELECTENG 4620 Optical Systems 4 cr
- ELECTENG 4630 Advanced Communication Systems 4 cr
- ELECTENG 4980 Current Topics in Electrical Engineering 1-4 cr
- ELECTENG 4990 Independent Study 1-3 cr

**Computers Engineering Emphasis**

- ELECTENG 4720 Microcomputer Architecture and Interfacing 4 cr
- ELECTENG 4750 Advanced Digital Design 4 cr
- ELECTENG 4980 Current Topics in Electrical Engineering 1-4 cr
- ELECTENG 4990 Independent Study 1-3 cr

**Controls Emphasis**

- ELECTENG 4310 Modern Control Systems 4 cr
- ELECTENG 4320 Digital Signal Processing 4 cr
- ELECTENG 4350 Discrete Time Control Systems 4 cr
- ELECTENG 4980 Current Topics in Electrical Engineering 1-4 cr
- ELECTENG 4990 Independent Study 1-3 cr

**Power and Energy Emphasis**

- ELECTENG 4430 Power Electronics and Electrical Machines 4 cr
- ELECTENG 4440 Electric Motor Drives 4 cr
- ELECTENG 4450 Power Systems Analysis 4 cr
- ELECTENG 4980 Current Topics in Electrical Engineering 1-4 cr
- ELECTENG 4990 Independent Study 1-3 cr
ELECTRICAL ENGINEERING COURSES

ELECTENG 1210  3 credits
Circuit Modeling I
Voltage, current, resistance and impedance. Opamps, Phasors, Ohm's law, Kirchoff's laws, superposition, and Thévenin's and Norton's theorems applied to the modeling of zero-order networks and to sinusoidal steady-state analysis. (Fall, Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: C: MATH 2640

ELECTENG 2210  4 credits
Circuit Modeling II
Components: Discussion, Laboratory, Lecture
Prereqs/Coreqs: P: ELECTENG 1210 and MATH 2640; C: 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. Discrete time systems and z-transforms. Fourier analysis of signals. (Fall, Spring)
Components: Discussion, Laboratory, Lecture
Prereqs/Coreqs: P: ELECTENG 2210; C: MATH 2840

ELECTENG 2950  2 credits
Electrical Engineering Cooperative Education
Work experience in industry under the direction and jurisdiction of College of Engineering, Mathematics and Science.
Components: Field Studies
Prereqs/Coreqs: P: Sophomore standing

ELECTENG 2960  2 credits
Electrical Engineering Cooperative Education
Work experience in industry under the direction and jurisdiction of College of Engineering, Mathematics and Science.
Components: Field Studies
Prereqs/Coreqs: P: Sophomore standing

ELECTENG 2970  1 credit
Electrical Engineering Internship
Work experience in industry under the direction of the Cooperative Education Office of the College of Engineering, Mathematics and Science. NOTE: This program is separate and distinct from the Cooperative Education Program and is principally designed to cover the summer vacation period.
Components: Field Studies
Prereqs/Coreqs: P: Sophomore standing

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 2220

ELECTENG 3130  3 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, BJTs, FETs and thyristors. Small signal equivalent circuits. Nonlinear modeling using computers. (Fall, Spring)
Components: Discussion, Laboratory, Lecture
Prereqs/Coreqs: P: ELECTENG 2210, PHYSICS 3140 and MATH 3630

ELECTENG 3140  3 credits
Electric and Magnetic Fields
Electrostatics, magnetostatics, Maxwell's equations, place waves and transmission lines. (Fall, Spring)
Components: Discussion, Lecture
Cross Offering: ENGRPHYS 3640
Prereqs/Coreqs: P: ELECTENG 2220, MATH 3630 and PHYSICS 2640

ELECTENG 3310  3 credits
Automatic Controls
Analysis and synthesis of single-input, single output linear time-invariant systems are considered using classical Laplace transform methods such as root locus and frequency domain techniques. The laboratory experiments and computer simulations demonstrate practical application of the concepts. (Fall, Spring)
Components: Discussion, Laboratory, Lecture
Cross Offering: MECHNCHL 4330
Prereqs/Coreqs: P: ELECTENG 2220 or MECHNCHL 3030 and GENENG 2930

ELECTENG 3410  3 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 2220

ELECTENG 3610  3 credits
Communication Systems
Analysis and design of amplitude, angle, and pulse code modulation systems. (Fall, Spring)
Components: Discussion, Laboratory, Lecture
Prereqs/Coreqs: P: ELECTENG 3020 and (ELECTENG 3760 or ELECTENG 3770)

ELECTENG 3770  3 credits
Logic and Digital Design
Introduction to digital logic. Boolean algebra. MSI and LSI. Combination 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  3 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  2 credits
Electrical Engineering Cooperative Education
Work experience in industry under the direction and jurisdiction of the College of Engineering, Mathematics and Science.

Components: Field Studies
Prereqs/Coreqs: P: Junior standing

ELECTENG 3960  2 credits
Electrical Engineering Cooperative Education
Work experience in industry under the direction and jurisdiction of the College of Engineering, Mathematics and Science.

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 the Cooperative Education Office of the College of Engineering, Mathematics and Science. NOTE: This program is separate and distinct from the Cooperative Education Program and is principally designed to cover the summer vacation period.

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, Laboratory
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 4310  4 credits
Modern Control Systems
State space modeling of systems, solution of state equations, controllability and observability, Lyapunov stability, minimum realization and state feedback design. (Spring)

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, discrete Fourier transform, FFT. Design of FIR and IIR digital filters. (Spring)

Components: Laboratory, Lecture
Prereqs/Coreqs: P: ELECTENG 2220

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)

Components: Laboratory
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, the dynamic modeling of induction machines, the operation of the fully controlled three-phase power converters, the speed and torque control of induction motors, the Voltage/Hertz control, permanent magnet synchronous motor drives, DC motor drives.

Components: Laboratory
Prereqs/Coreqs: P: ELECTENG 3020, 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 of systems analysis. (Spring)

Components: Discussion, Laboratory, Lecture
Prereqs/Coreqs: P: ELECTENG 3410

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
CrossOffering: ENGRPHYS 4140
Prereqs/Coreqs: P: ELECTENG 3610, ELECTENG 3140 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)
  **Components**: Discussion, Laboratory, Lecture
  **Prereqs/Coreqs**: P: ELECTENG 3610

ELECTENG 4720  4 credits
Microcomputer Architecture and Interfacing
Computer architecture including processor design, microprogrammed control, memory organization, interconnection structures, input/output, interfacing techniques and parallel processing. (Fall, Spring)
  **Components**: Laboratory, Lecture
  **Prereqs/Coreqs**: P: ELECTENG 3760 or ELECTENG 3780

ELECTENG 4750  4 credits
Advanced Digital Design
Introduction to semi-custom integrated circuit design; design methodology (design entry, simulation, cell placement and macro libraries); optimization of designs based on macro libraries; design for testability; logic simulation; placement and routing algorithms for gate arrays and standard cells; PLA-based programmable logic devices; programmable gate arrays; design projects using CAD systems. (Fall)
  **Components**: Laboratory, Lecture
  **Prereqs/Coreqs**: P: ELECTENG 3140 and ELECTENG 3760 or ELECTENG 3780; C: ELECTENG 3130

ELECTENG 4980  1 - 4 credits
Current Topics in Engineering
In-depth study of a current topic of interest to the engineering profession. The topic to be covered will be identified in the course title.
  **Components**: Lecture

ELECTENG 4990  1 - 3 credits
Independent Study
Advanced study in use of specialization selected by student and approved by faculty member.
  **Components**: Independent Study


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Academic Staff:  
James N. Almquist  
Fahmida R. Masoom

Program Assistant:  
Mary C. Kurth

About the Department and Program

The General Engineering (GE) Program is designed to prepare students for admission into one of seven professional engineering programs available at UW-Platteville. All of the programs, except the new program in Software Engineering are ABET (Accreditation Board for Engineering and Technology) accredited. As a new program, Software Engineering went through its first ABET review in 2006. 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 a few semesters to finalize their choice of major.

Upon entering the 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, 153 Ottensman Hall.

In order to gain admission to one of the seven professional programs (civil engineering, electrical engineering, engineering physics, environmental engineering, industrial engineering, mechanical engineering, or software engineering), a student must satisfy all requirements of the General Engineering Program, listed in the following.

Because there are limits to the number of students that each professional program can accommodate, admission to the individual professional programs is somewhat competitive. Twice a year, each degree-granting department establishes a minimum Core Grade Point Average (CGPA) required for admission to its program(s) at the end of the semester. Admission to a specific program is based on the program CGPA requirement in effect during the semester in which the student completes the General Engineering requirements. The CGPA requirement for a given program does not reflect the difficulty of that program. The CGPA requirement simply indicates the accumulated level of student demand for that program. A student who completes the General Engineering Core Courses and does not achieve the program’s minimum CGPA criterion may be admitted to that program by the department chair if space is available. Admission will be by rank CGPA.

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 freshman 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; and
5. Maintain the high quality of instruction and professional development necessary to ensure the accreditation of the professional programs.

Sample First Semester Course Work

Although courses are tailored to the individual student’s background and major requirements, a typical first semester freshman schedule would be:

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>2640</td>
<td>Calculus and Analytic Geometry I</td>
<td>4 cr</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>1130</td>
<td>Freshman Composition I</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHEMSTRY</td>
<td>1450</td>
<td>Chemistry for Engineers</td>
<td>5 cr</td>
</tr>
<tr>
<td>GENENG</td>
<td>1000</td>
<td>Introduction to Engineering</td>
<td>1 cr</td>
</tr>
<tr>
<td>PHYSED</td>
<td>1000</td>
<td>Fitness Assessment</td>
<td>1 cr</td>
</tr>
<tr>
<td>Humanities or Social Science</td>
<td></td>
<td></td>
<td>3 cr</td>
</tr>
<tr>
<td>Total Credits:</td>
<td></td>
<td></td>
<td>14-17</td>
</tr>
</tbody>
</table>
Effective Fall 2007 General Engineering Program Requirements

1. Each student must complete the following 7 core courses:
   CHEMSTRY 1450 Chemistry for Engineers 5 cr
   or
   MATH 2730 Discrete Mathematics 3 cr
   (for Software Engineering)
   ENGLISH 1130 Freshman Composition 3 cr
   GENENG 1000 Engineering Success Skills 1 cr
   GENENG 1030 Introduction to Engineering 1 cr
   GENENG 1320 Engineering Computer Graphics 2 cr
   (Electrical Engineering does not require GENENG 1320)
   or
   COMPUTER 1430 Programming in C++ 3 cr
   (for Software Engineering)
   MATH 2640 Calculus and Analytic Geometry I 4 cr
   MATH 2740 Calculus and Analytic Geometry II 4 cr

2. Students who complete their core courses in the fall of 2005 must earn the following CGPA to gain entry into their respective professional program:
   Civil Engineering: 2.70
   Electrical Engineering: 2.30
   Engineering Physics: 2.40
   Environmental Engineering: 2.30
   Industrial Engineering: 2.20
   Mechanical Engineering: 2.60
   Software Engineering: 2.30

A student who completes the GE core courses and does not achieve the program’s minimum CGPA criterion may be admitted to that program by the department chair if space is available. Admission will be by rank CGPA.

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: All courses in electrical engineering.
   • 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 GPA of 2.00 for all 3000/4000 courses. Only one “D” in engineering physics courses may be counted towards graduation.
   • 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.
   • Software Engineering: All required software engineering, computer science and electrical engineering courses.

General Engineering Program Limits

1. Once admitted into General Engineering, a student must successfully complete the General Engineering program requirements before accumulating 60 or more credits at UWP. Each repetition of a given course will be counted toward the 60 credit limit. With the exception of the 7 General Engineering core courses, credits earned at UWP prior to admission to General Engineering will not be counted toward the 60 credit limit.

2. General Engineering students may take no more than 9 credits of engineering courses numbered at the 2000 level or higher.

Dismissal from Engineering

Engineering majors who fail to meet the CGPA 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 engineering and must appeal to both the university and engineering for reinstatement. A student who has been dismissed from engineering may not enroll in any engineering class during the fall or spring semesters. Students may address appeals for reinstatement to the Engineering Admissions and Academic Standards Committee, General Engineering Department, 153 Ottenman Hall.

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 UWP.

4. Students transferring from programs that are not ABET accredited may be required to substantiate their expertise in the topics in question.

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
Introduction to Engineering Projects
An introductory course which will provide the opportunity for new engineering students to explore the UWP engineering programs through interdisciplinary projects. Emphasis will be placed on written and oral communication skills, data collection and analysis, computer application skills and group work. Semester course which meets one hour per week. (Fall, Spring)

Components: Lecture
Prereqs/Coreqs: P: GENENG 1000; C: Math 1530 or higher or consent of department chair

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: Lecture
Prereqs/Coreqs: P or C: GENENG 1000 and MATH 2530

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: MATH 2740 and GENENG 1030

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

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

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 1030 and sophomore standing

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

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

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 Not open to Electrical Engineering majors

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.

Components: Lecture
Prereqs/Coreqs: P: ENGRPHYS 3930

Design and Simulation of MEMS
This course is structured to give 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, 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.

Components: Lecture
Prereqs/Coreqs: P: ENGRPHYS 3930 and MATH 3630
About the Department and Major

Welcome to the exciting world of mathematics. Often called the “Queen and Servant of the Sciences,” mathematics has a long history of developing new frontiers and enriching the sciences and engineering. Most recently, mathematics has become increasingly important in such diverse areas as economics, psychology, linguistics, biology, management science and agriculture. Thus, 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 other courses are selected with regard to career goals.

Majors who plan to work in business or industry after graduation choose their electives from applied mathematics courses such as differential equations and numerical analysis. Mathematics majors planning to work as an actuary or toward an advanced degree in statistics should include junior-senior level probability and statistics courses among their mathematics electives.

For mathematics majors, many career opportunities are available in teaching, applied mathematics, statistics, computer science, actuarial science and others. Many UW-Platteville alumni with mathematics majors are pursuing careers as secondary school teachers, college teachers, actuaries with insurance companies and financial institutions, statisticians in both government and industry and as computer programmers and software engineers.

Mission

The purpose of the mathematics curriculum is to provide all students with quantitative skills to function proficiently in a societal and professional capacity. In addition to offering majors and minors in mathematics, the Department of Mathematics offers courses to support both the general education requirements of the University and the major and minor programs of other departments. Within this mission, the Department of Mathematics strives to furnish an open, enlightened environment, with frequent student/faculty interaction, resulting in a high quality undergraduate education that will develop and enhance students’ computational and reasoning skills.

Educational Goals and Learning Outcomes

The goals of the mathematics major at UW-Platteville are to:
1. prepare students with the skills needed to pursue careers in education, business and industry;
2. provide a theoretical foundation that will prepare students to continue their study of mathematics or statistics at the graduate level; and
3. provide students with opportunities to experience mathematics outside of their regular course work.

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; and
6. identify applications of mathematics in other disciplines and in society.
Placement

Initial placement of students in mathematics courses will be determined by the Department of Mathematics on the basis of all available records, test results and scores on the UW-System Mathematics Placement Test. Advanced placement credit for Calculus and Analytic Geometry is awarded only to students who satisfactorily complete the College Entrance Examination Board (CEEB) Advanced Placement Examination in Calculus. Upon request students will receive: 1) 4 credits for MATH 2640 if they receive a score of 4 or 5 on the CEEB Advanced Placement Calculus AB examination; 2) 3 credits for Math 2630 if they receive a score of 3 on the CEEB Advanced Placement Calculus BC examination; 3) 8 credits for MATH 2640 and 2740 if they receive a score of 4 or 5 on the CEEB Advanced Placement Calculus BC examination; or 4) 4 credits for Math 2640 if they receive a score of 3 on the CEEB Advanced Placement Calculus BC examination. Credit for MATH 1830 (Elementary Statistics) is awarded to students having received a score of 3, 4 or 5 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.

General Requirements

Bachelor of Science Degree

Total for Graduation........................................ 120 credits
General Education........................................ 44-58 credits
Major Studies .................................................. 36 credits
Mathematics Major ........................................... 36 credits
Mathematics Major in Secondary Education ....... 36 credits

A grade of “C” or better is required in all mathematics courses counted toward degree requirements.

Mathematics Major (36 credits) or Mathematics Major in Secondary Education (36 credits)

Core Requirements

Mathematics majors or mathematics majors in secondary education are required to complete all of the following:

MATH 2640 Calculus and Analytic Geometry I 4 cr
MATH 2740 Calculus and Analytic Geometry II 4 cr
MATH 2840 Calculus and Analytic Geometry III 4 cr
MATH 3230 Linear Algebra 3 cr
MATH 3330 Modern Algebra 3 cr
MATH 4030 Statistical Methods 3 cr
with Applications
MATH 4430 Advanced Calculus 3 cr
MATH 4810 Senior Seminar 1 cr

In-Depth Experience Requirement

(For Mathematics Majors Only)

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.

Geometry and Teaching Methods Requirements

(For Mathematics Majors in Secondary Education Only)

Students seeking teaching certification in mathematics are required to complete MATH 3130 College Geometry and MATH 3020 Teaching of Mathematics in the Middle and Secondary School. MATH 3020 does not count in the 36 credit hour requirement for the major.

Mathematics Electives

In addition to the requirements described above, all mathematics majors or mathematics majors in secondary education must complete at least 8 additional credits in mathematics. Courses numbered below 2640 or between 3000 and 3100 may not be counted toward this requirement. Students who are also majoring in one of the engineering areas may count up to 6 credits of selected engineering courses (CIVILENG 3100, CIVILENG 3300, ELECTENG 3140, ELECTENG 4310, ENGRPHYS 3240, ENGRPHYS 3640, INDSTEND 3530, MECHNCHL 3030, MECHNCHL 3300 and MECHNCHL 3640) as mathematics electives.

Computer Science Requirement

All mathematics majors or mathematics majors in secondary education are required to demonstrate proficiency in a high level computer language such as FORTRAN, Pascal, C or C++. Students who complete COMPUTER 1130 Introduction to Programming or COMPUTER 1430 Programming in C++ will have satisfied this requirement.

Natural Science Requirement

All mathematics majors or mathematics majors in secondary education must successfully complete one of the following courses in chemistry or physics:

CHEMISTRY 1140 General Chemistry 4 cr
or
CHEMISTRY 1450 Chemistry for Engineers 5 cr
or
PHYSICS 2510/2530 General Physics I 4 cr

Actuarial Science Emphasis (60 credits)

Students completing this emphasis must complete all the requirements for the 36 credit mathematics major, including MATH 4040 Probability and Statistics, and the following other requirements.

Required Business and Related Courses (24 Credits):

ACCTING 2010 Financial Accounting I 3 cr
ACCTING 2020 Management Accounting II 3 cr
BUSADMIN 1200 Introduction to American Business Enterprise 3 cr
or
BUSADMIN 1300 Global Business 3 cr
BUSADMIN 3430 Risk Management 3 cr
BUSADMIN 3620 Financial Management 3 cr
BUSADMIN 3930 Investments 3 cr
ECONOMIC 2130 Macroeconomics 3 cr
ECONOMIC 2230 Microeconomics 3 cr
In addition to these required courses, students majoring in this emphasis should consider the following courses:

BUSADMIN 4030 Financial Decision Making 3 cr

**Finance Emphasis (60 credits)**

Students completing this emphasis must complete all the requirements for the 36 credit mathematics major, including MATH 4040 Probability and Statistics, and the following other requirements.

**Required Business and Accounting Courses:**

ACCTING 2010 Financial Accounting I 3 cr
ACCTING 2020 Management Accounting II 3 cr
BUSADMIN 3430 Risk Management 3 cr
BUSADMIN 3620 Financial Management 3 cr
BUSADMIN 3640 Financial Systems Analysis 3 cr
BUSADMIN 3930 Investments 3 cr
BUSADMIN 4030 Financial Decision Making 3 cr
BUSADMIN 4130 Security Analysis 3 cr

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

BUSADMIN 3400 Personal Financial Planning 3 cr
ECONOMIC 2130 Macroeconomics 3 cr
ECONOMIC 2230 Microeconomics 3 cr
MATH 1730 Mathematics of Finance 3 cr

**Mathematics Minor (24 credits)**

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

**Required Courses:**

MATH 2640 Calculus and Analytic Geometry I 4 cr
MATH 2740 Calculus and Analytic Geometry II 4 cr
MATH 2840 Calculus and Analytic Geometry III 4 cr

One course from:

MATH 3230 Linear Algebra 3 cr
MATH 3630 Differential Equations I 3 cr
MATH 3730 Numerical Analysis 3 cr

In addition to these required courses, all mathematics minors must successfully complete COMPUTER 1130 Introduction to Programming or COMPUTER 1430 Programming in C++ (or equivalent) and either CHEMISTRY 1140 (or CHEMISTRY 1450) General Chemistry or PHYSICS 2510/2530 General Physics I.

**Mathematics Minor in Secondary Education (24 credits)**

Mathematics minors in secondary education must earn a minimum of 24 credits in mathematics subject to the restrictions outlined below:

**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

**MATHEMATICS COURSES**

MATH 10 no credit
**Elementary Algebra**

This course is a comprehensive study of the topics generally found in a first year high school algebra course, and provides a foundation for success in required college mathematics courses. (This course is required for students with a mathematics proficiency level of 00. This course does not carry UWP degree credit.) (Fall, Spring)

Components: Lecture
GE: No credit toward graduation

MATH 15 no credit
**Intermediate Algebra**

Fundamental operations, factoring, fractions, equations, functions, graphing, exponents and radicals, linear equations, systems of equations, inequalities, polynomials, rational expressions, quadratics and geometric sequences. (This course does not carry UWP degree credit.) (Fall, Spring, Summer)

Components: Lecture
GE: No credit toward graduation
Prereqs/Coreqs: P: MATH 10 with a grade of “C” or better or mathematics proficiency level of 10 or above
MATH 1030  3 credits
Mathematics for Educators I
Math 1030 is the first semester in a three-semester sequence of integrated content and methods courses for preservice teachers. It is open only to students in elementary education pursuing certification levels B-11 or 10-14. (The course is not intended for students pursuing certification level 10-21.) Topics covered include problem solving; history and development of number systems; sets, functions and algebraic reasoning; and fundamental operations with whole numbers and integers. Throughout the course, students will be expected to explain their reasoning using appropriate vocabulary and notation. (Fall, Spring)
Components: Lecture
Prereqs/Coreqs: P: MATH 15 with a grade of “C” or better or mathematics proficiency level of 15 or above (Open only to elementary education majors)

MATH 1530  3 credits
College Algebra
Equations and inequalities, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, complex numbers, systems of equations. (This course is equivalent to the first half of Math 2450. Students will not receive credit for both MATH 1530 and MATH 2450.) (Fall, Spring, Summer)
Components: Lecture
Prereqs/Coreqs: P: MATH 15 with a grade of “C” or better or mathematics proficiency level of 15 or above (MATH 1530 and MATH 2530 may not be taken concurrently.)

MATH 1630  3 credits
Finite Mathematics with Applications
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)
Components: Lecture
GE: Math
Prereqs/Coreqs: P: MATH 15 or MATH 1530 or mathematics proficiency level of 15 or above

MATH 1730  3 credits
Mathematics of Finance
Simple and compound interest, annuities, amortization, depreciation, valuation of securities and bonds. (Fall, Spring, Summer)
Components: Lecture
GE: Math
Prereqs/Coreqs: P: MATH 15 or MATH 1530 or mathematics proficiency level of 15 or above

MATH 1830  3 credits
Elementary Statistics
An introduction to statistical analytical methods including graphing distributions, numerical summaries, linear regression and correlation, the normal distribution, confidence intervals and hypothesis tests for means and proportions, analyzing two-way tables and analysis of variance. Minitab will be used throughout the course. (Fall, Spring, Summer)
Components: Lecture
GE: Math
Prereqs/Coreqs: P: MATH 15 or MATH 1530 or mathematics proficiency level of 15 or above

MATH 2030  3 credits
Mathematics for Educators II
Math 2030 is the second semester in a three-semester sequence of integrated content and methods courses for preservice teachers. It is open only to students in elementary education pursuing certification levels B-11 or 10-14. (The course is not intended for students pursuing certification level 10-21.) Topics covered include number theory; composition and decomposition of numbers including primes, factors and multiples; using physical models to develop concepts of and operations on rational numbers; proportional reasoning; number sense; and selected topics from statistics. Throughout the course, students will be expected to explain their reasoning using appropriate vocabulary and notation. (Fall, Spring)
Components: Lecture
GE: Math (Elem/Mdl Educ Only)
Prereqs/Coreqs: P: MATH 1030 with a grade of “C” or better (Open only to elementary education majors)

MATH 2450  5 credits
Precalculus
Solving equations and inequalities, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric and inverse trigonometric functions, trigonometric identities and formulas, complex numbers, systems of equations and conic sections. (This course is equivalent to taking both MATH 1530 and MATH 2530. Students who have credit for MATH 1530 or MATH 2530 should not take MATH 2450.) (Fall, Spring, Summer)
Components: Lecture
GE: Math
Prereqs/Coreqs: P: MATH 15 with a grade of “B” or better or mathematics proficiency level of 20 or above

MATH 2530  3 credits
Trigonometry and Analytic Geometry
Functions and their graphs, trigonometric and inverse trigonometric functions, trigonometric identities and formulas, solution of triangles, complex numbers, exponential and logarithmic functions and conic sections. (This course is equivalent to the second half of MATH 2450. Students will not receive credit for both MATH 2450 and MATH 2530.) (Fall, Spring, Summer)
Components: Lecture
GE: Math
Prereqs/Coreqs: P: MATH 1530 with a grade of “C” or better or mathematics proficiency level of 30 or above

MATH 2630  3 credits
Calculus with Applications
Functions, limits, rates of change, exponential and logarithmic functions, differentiation, integration; with applications in the fields of business and economics. (Spring)
Components: Lecture
GE: Math
Prereqs/Coreqs: P: MATH 1530 or MATH 1630 or MATH 2450 or mathematics proficiency level of 30 or above
MATH 2640 4 credits
Calculus and Analytic Geometry I
Limits and continuity, differentiation, differentials, antiderivatives, the
definite integral and applications. (Fall, Spring, Summer)
Components: Lecture
GE: Math
Prerequisites/Corequisites: P: MATH 2450 or MATH 2530 with a grade
of “C” or better, or mathematics proficiency level of 40

MATH 2730 3 credits
Discrete Mathematics
Logic, sets, combinations, relations, networks and algebraic structures.
(Fall, Spring)
Components: Lecture
Prerequisites/Corequisites: P: MATH 2640 with a grade of “C” or better
or advanced placement

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: Lecture
Prerequisites/Corequisites: P: MATH 2640 with a grade of “C” or better
or mathematics proficiency level of 40

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: Lecture
Prerequisites/Corequisites: 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 implement-
ed by the NCTM for teaching mathematics and the methods and
materials used in educating students in mathematics. (Fall)
Components: Lecture
Prerequisites/Corequisites: P: MATH 2740 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 teach-
ers. 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, reflec-
tions and translations; coordinate geometry; concepts of measure-
ment 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. Throughout the course, students will be
expected to explain their reasoning using appropriate vocabulary
and notation. (Fall, Spring)
Components: Lecture
Prerequisites/Corequisites: 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 alge-
bra 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
Prerequisites/Corequisites: P: MATH 3030 with a grade of “C” or better
(Open only to students in the early adolescent education program)

MATH 3130 3 credits
College Geometry
Topics from Euclidean geometry including classical theorems,
transformational geometry, and Euclidean constructions. Non-Eu-
clidean topics include inversion and reciprocation, as well as some
ideas from projective geometry. A dynamic geometry software pro-
gram is used extensively to illustrate ideas in this course. (Spring)
Components: Lecture
Prerequisites/Corequisites: P: MATH 2640 with a grade of C or better or
MATH 2450 or MATH 2530 or MATH 2630 or MATH 2640 with a grade of “C” or better,
or mathematics proficiency level of 40

MATH 3230 3 credits
Linear Algebra
Matrices, systems of equations, determinants, eigenvalues, eigen-
vectors, 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: Lecture, Exam
Prerequisites/Corequisites: 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 alge-
braic systems including rings and fields. (Spring)
Components: Lecture
Prerequisites/Corequisites: 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: Lecture, Exam
Prerequisites/Corequisites: P: MATH 2840 with a grade of “C” or better
MATH 3730 Numerical Analysis
This course is intended to provide an introduction to numerical methods. Topics will include computer arithmetic, solving nonlinear equations, numerical linear algebra, interpolation and curve fitting, 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

MATH 3830 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

MATH 4030 Statistical Methods with Applications
Introduction to probability, density and distribution functions, special discrete and continuous distributions, estimation, hypothesis testing, chi-square, correlation and regression. (Fall, Spring, Summer)

Components: Lecture
Prereqs/Coreqs: P: MATH 2740 with a grade of "C" or better.

MATH 4040 Statistics and Probability
A thorough investigation of more advanced applications in statistics including joint distributions, linear regression, multiple regression, design of experiments for a single factor and multiple factors, analysis of variance, nonparametric statistics and statistical quality control. (Fall)

Components: Lecture
Prereqs/Coreqs: P: MATH 4030 with a grade of "C" or better

MATH 4320 History and Development of Mathematical Concepts
A study of the history and development of mathematics from the primitive origins of numbers to modern mathematics. (Fall odd years)

Components: Lecture
Prereqs/Coreqs: P: MATH 2640 and junior standing

MATH 4330 Theory of Numbers
Integers, divisibility, prime numbers, Euclidean algorithm, linear Diophantine equations, congruences, Wilson's and Euler's theorems, Fermat's little theorem and other selected topics. (Fall even years)

Components: Lecture
Prereqs/Coreqs: P: MATH 2640 and junior standing

MATH 4430 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

MATH 4530 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

MATH 4620 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

MATH 4660 Cooperative Field Experience
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and department.

Components: Field Studies

MATH 4810 Senior Seminar
Development of library research techniques, organization and presentation of research findings beyond those formed in existing courses. (Fall, Spring)

Components: Seminar
Prereqs/Coreqs: P: 12 credits of mathematics selected from MATH 3100 and above

MATH 4920 Independent Study in Mathematics

Components: Independent Study
INDUSTRIAL ENGINEERING
http://www.uwplatt.edu/ie

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Assistant Professors:
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Majors
Industrial Engineering
Production Emphasis
Management Emphasis
Mechanical Engineering

About the Department and Major
The Department of Mechanical and Industrial Engineering offers two Bachelor of Science degrees: Mechanical Engineering and Industrial Engineering. The two disciplines have complementary aspects and provide opportunities for close cooperation between them. The department’s mission is to provide an open, student-friendly environment with frequent student-faculty interaction that results in a high quality undergraduate mechanical or industrial engineering education and enables graduates to practice their profession with proficiency and integrity.

Industrial Engineering is concerned with the design, improvement and installation of integrated systems of people, materials and technology. Industrial engineers combine a knowledge of mathematics, physical sciences and social sciences with the principles and methods of engineering analysis and design. At one time, industrial engineers were employed mainly in manufacturing. Today, however, they are employed by both manufacturing and service industries, which has increased the demand for industrial engineers.

Industrial engineers are generalists rather than specialists. Therefore, the industrial engineering curriculum at UW-Platteville covers a broad range of topics related to engineering practice. It includes study in engineering science topics as well as in each major specialty 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 Goals and Objectives
1. To provide students with a strong foundation in engineering, mathematics, science and current industrial engineering practices, accompanied by experience solving structured and unstructured problems using conventional and innovative solutions.
2. To enhance students’ communication and interpersonal skills through a variety of individual and team-related activities, both multi-functional and intra-disciplinary.
3. To provide students with an understanding of the ethical and professional responsibilities of an engineer and the impact of engineering solutions on society and the global environment.
4. To prepare students to effectively describe the problem, analyze the data, develop potential solutions and present the results using their oral, written and electronic media skills.
5. To make students aware of the need for continued professional growth through the understanding of contemporary developments in industrial engineering.

General Requirements
Bachelor of Science Degree
Total for Graduation ...................... 126 credits
Major Studies .................................. 95 credits

Industrial Engineering Major (92 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
CHEMSTRY 1450 Chemistry for Engineers 5 cr
PHYSICS 2530 General Physics I 3 cr
PHYSICS 2510 General Physics Lab 1 cr
PHYSICS 2640 General Physics II 4 cr
BIOLOGY 2340 Essentials of Anatomy and Physiology 4 cr

or
BIOLOGY 2140 Anatomy and Physiology I 4 cr
GENENG 1000 Engineering Success Skills 1 cr
GENENG 1030 Introduction to Engineering Projects 1 cr
GENENG 1320 Engineering/Computer Graphics 2 cr
GENENG 2130 Engineering Mechanics - Statics 3 cr
GENENG 2220 Engineering Mechanics - Dynamics 2 cr
GENENG 2340 Mechanics of Materials 4 cr
GENENG 2630  Basic Thermoscience  3 cr  
GENENG 2820  Engineering Economy  2 cr  
GENENG 2930  Applications of Electrical Engineering  3 cr  
INDSTENG 2130  Fundamentals of Industrial Engineering  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  Total Quality Management  3 cr  
INDSTENG 4730  Engineering Management  3 cr  
INDSTENG 4930  Industrial Systems Design  3 cr  
MECHNCHL 3040  Engineering Materials  3 cr  

INDSTENG 2950  2 credits  
**Industrial Engineering Cooperative Education**  
Work experience in industry under the direction and jurisdiction of the College of Engineering, Mathematics and Science.  
**Components:** Field Studies  
**Prereqs/Coreqs:** P: Sophomore standing  

INDSTENG 2960  2 credits  
**Industrial Engineering Cooperative Education**  
Work experience in industry under the direction and jurisdiction of the College of Engineering, Mathematics and Science.  
**Components:** Field Studies  
**Prereqs/Coreqs:** P: Sophomore standing  

INDSTENG 2970  1 credit  
**Industrial Engineering Internship**  
Work experience in industry under the direction of the Cooperative Education Office of the College of Engineering, Mathematics and Science. Note: This program is separate and distinct from the Cooperative Education Program and is principally designed to cover the summer vacation period.  
**Components:** Field Studies  

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 disabled. 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 2140 or 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, Spring)  
**Components:** Lecture  
**Prereqs/Coreqs:** P: MATH 4030 or MATH 4130  

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  

**Industrial Engineering Technical Electives**  
Each student must complete one of the following areas with a minimum of 12 credits.  

**Production Emphasis**  
MECHNCHL 3230  Manufacturing Processes  3 cr  
INDSTENG 4630  Manufacturing Systems Design  3 cr  

At least 6 credits from:  
INDSTENG 4130  Simulation  3 cr  
INDSTENG 4330  Material Handling and Warehousing  3 cr  
INDSTENG 4780  Principles and Design of Engineering MIS  3 cr  
INDSTENG 4830  Cost and Value Analysis  3 cr  
MECHNCHL 4430  Advanced Materials  3 cr  

**Engineering Management Emphasis**  
INDSTENG 4750  Principles and Application of Project Management  3 cr  
INDSTENG 4830  Cost and Value Analysis  3 cr  

At least 6 credits from:  
INDSTENG 4130  Simulation  3 cr  
INDSTENG 4330  Material Handling and Warehousing  3 cr  
INDSTENG 4780  Principles and Design of Engineering Management Info. Systems  3 cr  
BUSADMIN 3030  Human Resources Management  3 cr  
BUSADMIN 3230  Small Business Management  3 cr  

**INDUSTRIAL ENGINEERING COURSES**  
INDSTENG 2130  3 credits  
**Fundamentals of Industrial Engineering**  
Introduction to Industrial Engineering and its specialties. Use of the microcomputer in the solution of industrial engineering problems. Techniques are demonstrated through the use of general applications packages. (Fall, Spring)  
**Components:** Laboratory, Lecture  
**Prereqs/Coreqs:** P: Sophomore standing
INDSTENG 3950 2 credits
Industrial Engineering Cooperative Education
Work experience in industry under the direction and jurisdiction of the College of Engineering, Mathematics and Science.
Components: Field Studies
Prereqs/Coreqs: P: Junior standing

INDSTENG 3960 2 credits
Industrial Engineering Cooperative Education
Work experience in industry under the direction and jurisdiction of the College of Engineering, Mathematics and Science.
Components: Field Studies
Prereqs/Coreqs: P: Junior standing

INDSTENG 3970 1 credit
Industrial Engineering Internship
Work experience in industry under the direction of the Cooperative Education Office of the College of Engineering, Mathematics and Science. Note: This program is separate and distinct from the Cooperative Education Program and is principally designed to cover the summer vacation period.
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 2130 and INDSTENG 3530

INDSTENG 4130 3 credits
Simulation
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)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: INDSTENG 2130 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: P: INDSTENG 3430; 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. (Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: INDSTENG 3530 and GENENG 2820

INDSTENG 4430 3 credits
Total Quality Management
Emphasis on modern Total Quality Management philosophies, Statistical Process Control methods and tools for problem solving and on-going process improvement. Acceptance sampling procedures and standards, experimental design including Taguchi techniques and quality audits. Economic aspects of quality decisions, basic concepts in reliability analysis, basics of ISO 9000. (Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: INDSTENG 3530

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: 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. (Fall)
Components: Lecture
Prereqs/Coreqs: P: Senior 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 4780 3 credits
Principles and Design of Engineering Management Information Systems
The basis of information and general systems and how they fit into an industrial engineering decision making environment. An introduction to systems analysis in relation to managing information systems for efficiency measurement, workload, staffing, and performance assessment, cost estimating and benchmarking. (Spring)
Components: Laboratory, Lecture
Prereqs/Coreqs: P: INDSTENG 4730
INDSTENG 4830  3 credits  
Cost and Value Analysis
Introduction to cost estimating and value engineering; detailed analysis of labor and materials; basic principles of accounting and forecasting; preliminary and detail methods; operation, product, project and system estimating; estimate assurance and contract considerations. Applications of engineering valuation. Basic principles of function analysis. (Spring)
  
Components: Lecture
Prereqs/Coreqs: P: GENENG 2820 and INDSTENG 3630

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, Spring)
  
Components: Lecture
Prereqs/Coreqs: C: INDSTENG 4230

INDSTENG 4990  1 - 3 credits
Independent Study
Advanced study in the area of specialization.
  
Components: Independent Study
Prereqs/Coreqs: P: Senior standing

MECHANICAL ENGINEERING  
http://www.uwplatt.edu/meie

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Phone:  608-342-1431
Fax:  608-342-1566
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Daryl L. Logan
Stanislaw A. Lukowski
John A. Mirth
Prathivadi B. Ravikumar
Kurt C. Rolle

Associate Professors:
John Iselin
David Kraemer
Michael E. Momot
Lynn M. Schlager

Assistant Professors:
Tuba Bayraktar
Jeff Hoerning
Michael Zampaloni

Administrative Assistant:
Joyce Clifton

About the Department and Major
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; the use and commercial conversion of energy to provide heat, cooling, transportation and power; the design and production of labor-saving machines; and the processing of 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. The faculty members are dedicated to providing students with personal attention needed for maximum development of skills.

Educational Goals and Objectives
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. Teamworking 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.

General Requirements
Bachelor of Science Degree

Total for Graduation..................................... 131 credits
Major Studies ................................................. 100 credits

Mechanical Engineering Major (100 credits)

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Professional Engineering Courses (Minimum “C” average required)

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Technical Electives (9 credits)

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MECHANICAL ENGINEERING COURSES

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Thermodynamics

Basic concepts and definitions, ideal gases, and properties. Conservation of mass principle. First law of thermodynamics for closed and open systems. Second law of thermodynamics, reversibility and availability. (Fall, Spring, Summer)

Components: Lecture
Prereqs/Coreqs: P: MATH 2840 and PHYSICS 2530

MECHNCHL 2950 2 credits

Mechanical Engineering Cooperative Education

Work experience in industry under the direction and jurisdiction of the College of Engineering, Mathematics and Science.

Components: Field Studies
Prereqs/Coreqs: P: Sophomore standing
MECHNCHL 2960  2 credits  
**Mechanical Engineering Cooperative Education**
Work experience in industry under the direction and jurisdiction of the College of Engineering, Mathematics, and Science.  
**Components:** Field Studies  
**Prereqs/Coreqs:** P: Sophomore standing  

MECHNCHL 2970  1 credits  
**Mechanical Engineering Internship**
Work experience in industry under the direction of the Cooperative Education Office of the College of Engineering, Mathematics, and Science. Note: This program is separate and distinct from the Cooperative Education Program and covers summer work experience.  
**Components:** Field Studies  

MECHNCHL 3030  3 credits  
**Dynamical Systems**
Mathematical modeling and response of dynamic systems. Formulation of system governing equations by Newtonian and Lagrangian approaches. Laplace transforms and numerical techniques of solution. System model representation and computer simulation concepts. Block diagrams and transfer functions. Time and frequency response of dynamic systems. (Fall, Spring)  
**Components:** Discussion, Lecture  
**Prereqs/Coreqs:** P: GENENG 2230 and MATH 3630  

MECHNCHL 3040  3 credits  
**Engineering Materials**
A study of metals and polymers. Crystal structures, microstructures, molecular structures and imperfections. Relationship between structures and observed mechanical properties. (Fall, Spring)  
**Components:** Laboratory, Lecture  
**Prereqs/Coreqs:** C: GENENG 2340  

MECHNCHL 3230  3 credits  
**Manufacturing Processes**
**Components:** Lecture  
**Prereqs/Coreqs:** P: MECHNCHL 3040  

MECHNCHL 3300  3 credits  
**Fluid Dynamics**
Fluid properties, fluid statics, fundamental equations of fluid motion, dimensional analysis, external flow and boundary layers, viscous flow in pipes, compressible flow. (Fall, Spring)  
**Components:** Laboratory, Lecture  
**Prereqs/Coreqs:** C: MECHNCHL 2630  

MECHNCHL 3330  3 credits  
**Design of Machine Elements**
Non-standard loading, deflection analysis, failure theories for static and cyclic loading followed by engineering statistics, safety and reliability. Design and selection of a wide range of machine elements such as fasteners, springs, shafts, bearings and gears. Open-ended design projects, consideration of alternative solution, concurrent engineering design and detailed systems description. (Fall, Spring)  
**Components:** Discussion, Laboratory, Lecture  
**Prereqs/Coreqs:** P: MECHNCHL 3040 and a minimum grade of “C” in GENENG 2340  

MECHNCHL 3630  2 credits  
**Applied Thermodynamics**
Thermodynamics of vapor and gas power cycles, air conditioning and refrigeration cycles. Ideal gas mixtures and psychometrics. Combustion and reacting mixtures. Design projects. (Fall, Spring)  
**Components:** Discussion, Lecture  
**Prereqs/Coreqs:** P: MECHNCHL 2630  

MECHNCHL 3640  3 credits  
**Heat Transfer**
**Components:** Laboratory, Lecture  
**Prereqs/Coreqs:** P: MECHNCHL 2630; C: MECHNCHL 3300  

MECHNCHL 3720  3 credits  
**Mechanical Systems Laboratory**
Introduction to engineering laboratory equipment, experimental procedures, report writing, automated data acquisition 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: MECHNCHL 3030  

MECHNCHL 3730  2 credits  
**Mechanical Systems Design**
Development of design process through team design projects and case studies. Design considerations including performance, manufacturing and economic considerations. Use of computers for evaluation of alternatives. Fits and tolerances. Optimization. (Fall, Spring)  
**Components:** Discussion, Laboratory, Lecture  
**Prereqs/Coreqs:** P: MECHNCHL 3330  

MECHNCHL 3830  2 credits  
**Mechanisms and Machines**
Design and analysis of mechanisms and machines. A study of simple machines such as linkages, geared systems, and cam-follower systems. Topics include mechanism motion and performance (position, velocity, acceleration, force transmission, etc.), actuators and design considerations to improve machine performance. (Fall, Spring)  
**Components:** Discussion, Laboratory, Lecture  
**Prereqs/Coreqs:** P: GENENG 2230 or ENGRPHYS 3240
MECHNCHL 3950  2 credits
**Mechanical Engineering Cooperative Education**
Work experience in industry under the direction and jurisdiction of the College of Engineering, Mathematics and Science.

**Components:** Field Studies

**Prereqs/Coreqs:** P: Junior standing (Note: Credits do not fulfill any graduation requirements)

MECHNCHL 3960  2 credits
**Mechanical Engineering Cooperative Education**
Work experience in industry under the direction and jurisdiction of the College of Engineering, Mathematics and Science.

**Components:** Field Studies

**Prereqs/Coreqs:** P: Junior standing (Note: Credits do not fulfill any graduation requirements)

MECHNCHL 3970  1 credit
**Mechanical Engineering Internship**
Work experience in industry under the direction of the Cooperative Education Office of the College of Engineering, Mathematics and Science. Note: This program is separate and distinct from the Cooperative Education Program and is principally designed to cover the summer vacation.

**Components:** Field Studies

MECHNCHL 4330  3 credits
**Automatic Controls**
Analysis and synthesis of single-input, single-output linear time-invariant systems are considered using classical Laplace transform methods such as root locus and frequency domain techniques. The laboratory experiments and computer simulations demonstrate practical application of the concepts. (Fall, Spring)

**Components:** Discussion, Laboratory, Lecture

**Cross Offering:** ELECTENG 3310

**Prereqs/Coreqs:** P: MECHNCHL 3030 and GENENG 2930

MECHNCHL 4430  3 credits
**Advanced Materials**
Quantitative and qualitative treatment of metal forming and machining; engineering design for ease of manufacture; changes in strength properties due to forming operations and heat treatment; energy requirements.

**Components:** Laboratory, Lecture

**Prereqs/Coreqs:** P: MECHNCHL 3040

MECHNCHL 4440  3 credits
**Failure of Materials**
Fatigue and fracture of materials are covered. Included are stress-life and strain-life analysis, fracture mechanics, stress concentration influences and variable amplitude loading. While some design component is present in the lectures, the major design component is contained in the laboratory where projects are designed, built and tested via fracture and fatigue. Mechanical testing principles and principles for recognition of fatigue failure from fracture surfaces are also developed in the laboratory. Two one-hour lectures and one two-hour laboratory per week.

**Components:** Laboratory, Lecture

**Prereqs/Coreqs:** P: MECHNCHL 3040

MECHNCHL 4500  3 credits
**Biomedical Engineering**
An overview of the human physical system as a context for engineering design. Introduction to the functional basis of physiologic systems, their interaction and interdependence and the effects of medical, surgical and therapeutic intervention. Principles of usability, accessibility and universal design of products to meet the needs of a population with a broad continuum of ability and impairment, in physical, sensory or cognitive categories.

**Components:** Discussion, Lecture

**Prereqs/Coreqs:** P: Senior standing in engineering or consent of instructor

MECHNCHL 4520  3 credits
**Power Plant Design**
Analysis and preliminary design of steam power systems. Environmental aspects and economics of power generation. Renewable energy. Recent developments, future trends and societal issues in power industry.

**Components:** Discussion, Laboratory, Lecture

**Prereqs/Coreqs:** P: MECHNCHL 3630

MECHNCHL 4550  3 credits
**Heat Transfer Applications**
Review of conduction, convection and radiation heat transfer. Extension to variable properties and more complex geometrics. Current heat transfer problems and applications such as electronic cooling, heat pipes, capillary pumped loops and cryogenic heat transfer. Survey of currently used correlations and numerical techniques. Application of the current state-of-the-art to design problems.

**Components:** Discussion, Lecture

**Prereqs/Coreqs:** P: MECHNCHL 3630 and MECHNCHL 3640

MECHNCHL 4600  3 credits
**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 3630 and MECHNCHL 3640

MECHNCHL 4630  3 credits
**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 3630 and MECHNCHL 3640
MECHNCHL 4640 3 credits
**Mechanical Design of Internal Combustion Engines**
Mechanical design and experimental development of internal combustion engines to meet comprehensive design criteria: marketability, thermodynamic performance, dynamic issues, efficiency, lubrication, emissions, economy, drivability, design for manufacture.

Components: Laboratory, Lecture
Prereqs/Coreqs: P: MECHNCHL 3730 or MECHNCHL 4730; C: MECHNCHL 4630

MECHNCHL 4650 3 credits
**Environmental Control Design**
Theory and design of heating, air conditioning and refrigeration units. Heating and cooling loads for air conditioning, heat pump, psychometry, cryogenics and high temperature water distribution.

Components: Discussion, Laboratory, Lecture
Prereqs/Coreqs: P: MECHNCHL 3630 and MECHNCHL 3640

MECHNCHL 4670 2 credits
**Thermal Systems Laboratory**
Instrumentation and measurement techniques in thermal systems; verification of basic principles; laboratory tests on components of thermal systems; experimental approach for solving engineering problems; application of computer to data acquisition and data processing. (Fall, Spring)

Components: Laboratory
Prereqs/Coreqs: P: MECHNCHL 3630 and MECHNCHL 3640

MECHNCHL 4730 2 credits
**Thermo-Fluid Systems Design**
Concept of thermal systems; design of energy system components; modeling and simulation of thermal systems; application of principles in thermal science to a design project. (Fall, Spring)

Components: Discussion, Laboratory, Lecture
Prereqs/Coreqs: P: MECHNCHL 3630 and MECHNCHL 3640

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 non-linear 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

MECHNCHL 4800 3 credits
**Finite Element Method**
Introduces the finite element method. Emphasizes beam and frame analysis, plane stress, plane strain, axisymmetric and three-dimensional stress analysis. Includes field problems, such as heat transfer. Utilizes readily available finite element computer programs to solve stress analysis, heat transfer and other engineering related problems.

Components: Discussion, Lecture
Prereqs/Coreqs: P: MECHNCHL 3330

MECHNCHL 4830 3 credits
**Mechatronics**
Study of electro-mechanical systems and their interfaces. DC servomotors, stepper motors, micro controllers, D/A and A/D converters and electronic filters. The design of a microcomputer-controlled device will be used to demonstrate the practical application of these devices.

Components: Laboratory, Lecture
Prereqs/Coreqs: C: MECHNCHL 4330 or ELECTENG 3310

MECHNCHL 4840 3 credits
**Vibration Systems Design**
Design of mechanical systems constrained by vibrating response consideration.

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 3330

MECHNCHL 4930 3 credits
**Senior Design Project**
Application of creativity and synthesis. Simulation of engineering project environment. Integration of technical knowledge in an open-ended comprehensive design project. Oral and written reports. This course must be taken during the last semester in residence. (Fall, Spring)

Components: Lecture
Prereqs/Coreqs: P: MECHNCHL 3230.
(Open to graduating seniors only)

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
The mission of the College of Liberal Arts and Education is to provide a broad foundation of knowledge for all students, fostering an appreciation of the complexity of human nature and the diversity of human experience. The college accomplishes this in two ways: by providing liberal studies courses that form the foundation of a university education, and by offering a variety of major and minor programs which may be used as a basis for career development. Liberal education courses foster development of flexible, critical, reflective and divergent thinking. They form the foundation for lifelong learning and global citizenship preparing students not only for their chosen careers but for multiple facets of their lives. Liberal studies courses also develop skills in oral and written communication.

The college provides in-depth study in the liberal arts as well as programs leading to certification to teach. Licensure may be obtained in a major, a comprehensive major and/or minor.

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 and Mississippi Valley State University Partnership**

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. UWP 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 Study Abroad Programs in England, France, Germany, Ireland, Mexico, Spain, Italy, China, Australia and Fiji. In addition, students may take major course work in Education through one-to-one student exchange programs in Stavanger, Norway or in Windesheim, the Netherlands. These one-to-one exchange programs allow UWP students to pay tuition and fees locally while attending classes abroad. Therefore, the only additional costs incurred are for travel and incidental expenses.

Closer to home, students may participate in Winterim coursework, short trips, student teaching assignments or semester exchanges with our partner institution, Mississippi Valley State University, in Itta Bena, Mississippi. Located in the Mississippi Delta, an area rich in culture, music and civil rights history, “the Valley” provides an excellent opportunity for students to experience a different region, climate and culture while taking courses to fulfill their degrees.

**Applied Learning**

The College of Liberal Arts and Education 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.

The Williams Fieldhouse provides up-to-date facilities for health and physical education programs, and the Center for the Arts includes a 550-seat concert hall with excellent acoustics, a 340-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 its early childhood methods classes.

The Education Office of Special Programs (EOSP) provides administrative support to many teacher education programs and, in particular the cross-categorical special education and English language learner programs that lead to licensure by the Wisconsin Department of Public Instruction. The office also makes available for purchase or check-out educational resources for middle level educators. These resources were compiled during the many years that UWP housed the Center of Education for the Young Adolescent (CEYA) and hosted the summer seminar, Teaching the Transcendent. Seminars offered by the university today revolve around topics of interest identified by teachers of all levels in their professional development plans. EOSP is located in 134 Doudna Hall. More information can be obtained by calling 608-342-1276 or 1-800-208-7041.
LAE Policies and Procedures

Students enrolled in the College of Liberal Arts and Education may earn either a Bachelor of Arts (B.A.) or a Bachelor of Science (B.S.) 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 Liberal Arts and Education. 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 Liberal Arts and Education) 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 Liberal Arts and Education has added the following stipulations to its degree programs:

1. Except for education majors, no student may count more than 48 credits from any one discipline toward the 120 credits required for graduation.

2. To earn a major, minor or certificate in the College of Liberal Arts and Education, a student must have a minimum GPA of 2.00 in all courses taken for the major and the 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.

3. Each department and program in the College of Liberal Arts and Education 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

Department Chair: Thomas E. Caywood
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Professors:
Thomas E. Caywood
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Lecturers:
Aric Dutelle
Steve Elmer
Joseph LeFevre
Amy Nemmetz
Robert Roberts
Edward Ross

Mission Statement

The faculty of the 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 of Criminal Justice 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 twenty-first century.

Objectives

Educational Outcomes/Learning Objectives:

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 Major

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 Criminal Justice Department has received national recognition for the superior quality of its internship program. As a result, participation in the internship program 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 credits, a 2.25 GPA, and a passing score on the department's writing certification requirement.

In cooperation with the Department of Psychology and the Counselor Education Graduate Program, undergraduate criminal justice majors can obtain AODA (alcohol and other drug abuse) certification. The 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 .................................. 36-54 credits
Bachelor of Science supplement .............. 6 credits

Bachelor of Arts Degree

Total for Graduation.............................. 120 credits
General Education............................... 44-58 credits
Major Studies .................................. 36-54 credits
Bachelor of Arts supplement ................. 4-6 credits
Bachelor of Science Supplement

Required courses (6 credits, 3 credits per discipline):
- ENGLISH 3000 Technical Writing 3 cr
- COMPUTER 1830 Microcomputer Applications 3 cr
- SPEECH 2250 Communication and Leadership in Small Groups 3 cr
- SPEECH 3250 Interpersonal Communication 3 cr
- SPEECH 3500 Persuasion and Argumentation 3 cr
- BUSADMIN 2330 Leadership and Management 3 cr
- CRIMLJUS 3120 Investigative Photography 3 cr

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 ### Any English course from 3140 through 3760 3 cr
- HISTORY ### 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 (36-54 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
Total: 36 cr

In addition, all criminal justice majors:
1. must complete 3 credits of course work 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 3 credits of course work in research methods, which can be fulfilled by successful completion of CRIMLJUS 3900 Research Methods in Criminal Justice, PSYCH 2230 Introduction to Experimental Psychology and SOCIOLGY 3430 Social Research.
3. must earn a “C” or better in each core course before going on to the next.

In addition, each major must earn a "C" or better in ENGLISH 1130 and ENGLISH 1230 and pass the departmental writing proficiency exam before taking upper division criminal justice courses.

In addition to the social science requirements of the university, the student must either complete at least 6 credits each in psychology, sociology and political science or complete a minor or second major in any discipline.

Minors to consider include foreign languages, accounting for federal law enforcement or psychology for corrections. Computer science, political science, chemistry, biology and business administration are also excellent minors for students majoring in criminal justice.

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 Investigations Emphasis (15-16 credits)

Required Courses:
- CRIMLJUS 1330 Introduction to Crime Scene Investigation 3 cr
- CRIMLJUS 2520 Crime Scene Processing 3 cr
- CRIMLJUS 3140 Criminalistics 4 cr

Electives (4-6 credits):
- CRIMLJUS 2320 Fingerprinting 3 cr
- CRIMLJUS 2420 Evidence Collection 3 cr
- CRIMLJUS 4630 Current Topics 1-3 cr

Criminal Justice Minor (24 credits)

Required Courses:
- CRIMLJUS 1130 Introduction to Criminal Justice 3 cr
- CRIMLJUS 2130 The Police Function 3 cr
- CRIMLJUS 2230 Correctional Philosophy 3 cr
Forensic Investigations Minor (25 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 presentation of crime scene evidence.

Required Courses:
- CRIMLJUS 1130 Introduction to Criminal Justice 3 cr
- CRIMLJUS 1330 Introduction to Crime Scene Investigation 3 cr
- CRIMLJUS 2320 Fingerprint Classification and Development 3 cr
- CRIMLJUS 2420 Evidence Collection and Development 3 cr
- CRIMLJUS 2520 Crime Scene Processing Techniques 3 cr
- CRIMLJUS 3120 Investigative Photography 3 cr
- CRIMLJUS 3130 Criminal Investigation 3 cr
- CRIMLJUS 3140 Criminalistics 4 cr

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 Science

CRIMLJUS 1330 3 credits
Introduction to Crime Scene Investigation
This course delves into various types of technology, techniques and equipment used in crime laboratories, and various types of technology, techniques and equipment used by crime scene technicians at a crime scene. Course also provides an overview for the career of crime scene technicians.

Components: Lecture

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: CRIMJUS 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: CRIMJUS 1130 with a “C” or better

CRIMLJUS 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 alphanumeric classification system.

Components: Lecture
Prereqs/Coreqs: P: CRIMLJUS 1330

CRIMLJUS 2340 3 credits
US Courts and the Criminal Justice System
A detailed study of the adversarial system in the United States courts 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, whose goal is to effect justice on the accused, with a focus on the prosecutors, defense attorneys, judges and jurors who are involved in the daily decisions about guilt or innocence, probation or prison for adult and juvenile citizen offenders as well as a secondary focus on non-citizen adult and juvenile offenders.

Components: Lecture

CRIMLJUS 2420 3 credits
Evidence Collection and Preservation
This course covers the process, collection and preservation of physical evidence. Includes identification and preservation of physical evidence such as hair, fibers and blood samples at crime scenes. Chain of custody procedures, recording and maintaining evidence collection storage facilities are covered.

Components: Lecture
Prereqs/Coreqs: CRIMLJUS 1330

CRIMLJUS 2520 3 credits
Crime Scene Processing Techniques
This is a course crafted to familiarize students with the fundamentals and techniques used in crime scene processing and criminal investigations. Students will be expected to achieve a basic knowledge of how to record and document, collect, protect and defend the credibility of evidence.

Components: Lecture
Prereqs/Coreqs: CRIMLJUS 1330

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 Offering: ETHNSTDY 2830
GE: Ethnic Studies
Prereqs/Coreqs: Must be at least 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 3120  3 credits
**Investigative Photography**
A course crafted to familiarize students with the fundamentals of photography and its application to the science and technology of criminal investigations. The students will be expected to achieve a basic knowledge of how to record and document, collect, protect and defend the credibility of evidence with the use of photography.

Components: Lecture
Prereqs/Coreqs: P: CRIMLJUS 1330

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

CRIMLJUS 3140  4 credits
**Criminalistics**
The function and techniques of the application of scientific methods to the evaluation of physical evidence. The course examines the various analytical systems used in the evaluation of physical evidence with a balance between the theoretical framework and practical application in the laboratory.

Components: Discussion, Lecture
Prereqs/Coreqs: P: CRIMLJUS 2130 with a “C” or better and junior standing

CRIMLJUS 3230  3 credits
**Comparative Criminal Justice Systems**
Cultural bases of laws, development of laws, conceptions of justice and patterns of crime; comparison of American justice systems with other Western and Asian justice systems.

Components: Lecture
Prereqs/Coreqs: P: CRIMLJUS 2130 and 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 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  3 credits
**Juvenile Justice**
Conceptions of juvenile delinquency; the juvenile offender in the juvenile justice system; the philosophy, structure and function of juvenile courts; legal rights of accused juveniles, correctional theories and programs in juvenile institutions; methods and models of rehabilitating juvenile offenders and prevention of juvenile delinquency.

Components: Lecture
Prereqs/Coreqs: P: CRIMLJUS 2230 with a “C” or better and junior standing

CRIMLJUS 3730  3 credits
**Women and the Law**
A study of women in their legal roles as wives and mothers, workers and students, criminals and victims of crime. The course examines how the law affects women's personal choices regarding marriage, having children and aiming for high-level achievements in education and in work. The course also examines ways in which law affects women in poverty and in old age.

Components: Lecture
Cross Offering: WOMSTD 3730
GE: Gender Studies, Social Science
Prereqs/Coreqs: P: CRIMLJUS 1130 or one course in women's studies and junior standing

CRIMLJUS 3800  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
Prereqs/Coreqs: P: 4 credits of lab science and junior standing

CRIMLJUS 3830  3 credits
**Crime Prevention**
An investigation of the prevention of crime utilizing changes in both the physical and social environment of the community.

Components: Lecture
Prereqs/Coreqs: P: CRIMLJUS 1130 with a “C” or better and junior standing
CRIMLJUS 3900 3 credits
Research Methods in Criminal Justice
An introduction to research methods in criminal justice and criminology, with applications to both pure and applied research. The course provides a basic conceptual framework for understanding and interpreting criminal justice research as well as designing, conducting and evaluating research projects.
Components: Lecture
Prereqs/Coreqs: P: CRIMJUS 2130 and 2230 with a “C” or better, an accumulated GPA of 2.25, junior standing and a passing score on the department's writing certification requirement

CRIMLJUS 3930 3 credits
Law of Corrections
The law pertaining to the effects and consequences of conviction, sentencing and prisoner rights; the legal process in terms of post-trial motions and appeals of conviction.
Components: Lecture
Prereqs/Coreqs: P: CRIMJUS 2230 with a “C” or better and junior standing

CRIMLJUS 4030 3 credits
Criminal Law
A study of the principles, doctrines and selected rules of criminal law; the sources of substantive criminal law and historical development of common law principles of criminal responsibility; constitutional constraints on the decision to define behavior as criminal.
Components: Lecture
Prereqs/Coreqs: P: CRIMJUS 2130 and 2230 with a “C” or better and junior standing

CRIMLJUS 4130 3 credits
Police-Community Relations
Analysis of the interdependence of the police and community in maintaining order and controlling crime; theories of community and the community's role in the development of police systems; tension and conflict in police-community interaction; programs and strategies for improving the quality of police-community relations.
Components: Lecture
Prereqs/Coreqs: P: CRIMJUS 2130 with a “C” or better and junior standing

CRIMLJUS 4230 3 credits
Community-Based Corrections
Community-based correctional programs; pre- and post-trial; a critical investigation of theories, practices and problems involved in pre-trial diversion, probation and parole.
Components: Lecture
Prereqs/Coreqs: P: CRIMJUS 2230 with a “C” or better and junior standing

CRIMLJUS 4330 3 credits
Criminal Procedure and Evidence
A study of case law defining constitutional constraints on police behavior in the areas of arrest, search and seizure, interrogation, identification and investigation; rules on the exclusion of illegally seized evidence.
Components: Lecture
Prereqs/Coreqs: P: CRIMJUS 4030 with a “C” or better and junior standing

CRIMLJUS 4430 3 credits
Issues in Criminal Justice Planning and Management
Problems confronting American criminal justice in the areas of criminal law, courts, law enforcement and corrections; models and alternatives for reforming the criminal justice process including program planning, development and management.
Components: Lecture

CRIMLJUS 4500 1 - 3 credits
Directed Individual Studies
Supervised individual study of a topic selected by the student with staff approval.
Components: Independent Study
Prereqs/Coreqs: P: CRIMJUS 4030 with a “C” or better, an accumulated GPA of 2.50, junior standing and consent of instructor

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: CRIMJUS 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: CRIMJUS 4030 with a “C” or better and junior standing

CRIMLJUS 4840 3 credits
Psychopharmacology for the AODA Counselor
The effects of nutrients, additives and psychoactive drugs on criminal behavior; the process by which behavior is affected by these substances. It fulfills part of the knowledge base for AODA counselor certification.
Components: Lecture
Prereqs/Coreqs: P: CRIMJUS 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
Prereqs/Coreqs: P: 60 credits plus 12 upper division criminal justice credits, a 2.25 GPA and a passing score on 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: CRIMJUS 4030 with a “C” or better, senior standing and a passing score on the department’s writing certification requirement
About the Ethnic Studies Program and Minor

The Ethnic Studies Program Council includes Carl Allsup, Ethnic Studies; Roslyn Broussard, Social Sciences; Teresa Burns, Humanities; Christine Curras, Engineering, Mathematics and Science; Mark Evenson, Humanities; Robert Fidrych, Business and Accounting; Rea Kirk, Education; Kathleen Timerman, Humanities; Laura Wendorff, Humanities; Kaye Winder, Fine Arts; David Zierath, Social Sciences; and Julie Phillips, Education.

The 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 United States.

The Ethnic Studies Program oversees the UWP curriculum requirement that every student in a degree program complete a 3 credit course on issues of race and ethnicity.

Certificate in Ethnic Studies (15 credits)

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

Electives (12 credits):
ETHNSTDY 2130  The Native American Experience 3 cr
ETHNSTDY 3400  History of Chicano Peoples in the U.S. 3 cr
ETHNSTDY 2730  Ethnic Art in the United States 3 cr
ETHNSTDY 2830  Ethnicity, Race and Crime 3 cr
ETHNSTDY 2930  Minority Women Writers of the U.S. 3 cr
ETHNSTDY 3230  Human Relations 3 cr
ETHNSTDY 3240  African-American History: 1619 to Present 3 cr
BUSADMIN 3340  Ethnic and Gender Issues in Management 3 cr
ETHNSTDY 3630  Ethnic and Gender Equity in Education 3 cr
ETHNSTDY 3720  Ethnic Rights and Politics 3 cr
ETHNSTDY 3730  Black Literature in America 3 cr
ETHNSTDY 3740  Asian-American Literature 3 cr
ETHNSTDY 3750  American Literature of Ethnicity and Immigration 3 cr
ETHNSTDY 3760  Wisconsin Indian Literature 3 cr
ETHNSTDY 3780  Black Women and Feminism in the U.S. 3 cr
ETHNSTDY 3830  Black Women and Feminism in the U.S. 3 cr

Minor in Ethnic Studies (24 credits)

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

Electives (21 credits):
ETHNSTDY 2130  The Native American Experience 3 cr
ETHNSTDY 3400  History of Chicano Peoples in the U.S. 3 cr
ETHNSTDY 2730  Ethnic Art in the United States 3 cr
ETHNSTDY 2830  Ethnicity, Race and Crime 3 cr
ETHNSTDY 2930  Minority Women Writers of the U.S. 3 cr
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ETHNSTDY 3750  American Literature of Ethnicity and Immigration 3 cr
ETHNSTDY 3760  Wisconsin Indian Literature 3 cr
ETHNSTDY 3830  Black Women and Feminism in the U.S. 3 cr
ETHNIC STUDIES COURSES

ETHNSTDY 1030  3 credits
Race, Gender and Class
An examination of the concepts of race, gender and class in the United States as these influences are related historically to form a matrix that then serves as a comprehensive basis for understanding the contemporary American society.
Components: Lecture
GE: Ethnic and Gender

ETHNSTDY 2130  3 credits
The Native American Experience
The Native American Experience is an examination of the indigenous peoples of North America with particular emphasis on the area now called the United States.
Components: Lecture
GE: Ethnic Studies, Humanities

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 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 Offering: ART 2730
GE: Ethnic Studies, Fine Arts

ETHNSTDY 2750  3 credits
Native American Art
Art of various culture groups of American Indians, ranging from the Inuit of the far north to tribes and nations of the southwest. Ancient and traditional art forms will be studied as well as history of art in times of culture contact and conflict, continuing through work created by contemporary tribal artists informed by those traditions.
Components: Lecture
Cross Offering: ART 2750
GE: Ethnic Studies, Fine Arts

ETHNSTDY 2830  3 credits
Ethnicity, Race and Crime
A study of the correlation between ethnicity, race, crime and criminality in the United States. This course explores the interrelatedness of ethnicity, race, criminal law and the sanctioning of criminal behavior in the United States.
Components: Lecture
Cross Offering: CRIMLJUS 2830
GE: Ethnic Studies
Prereqs/Coreqs: Sophomore standing

ETHNSTDY 2930  3 credits
Minority Women Writers of the United States
Literature written by Native-American women, African-American women, Latina-American women and Asian-American women. Includes investigation of historical and cultural backgrounds as well as literary traditions of minority women of the United States. Students will read authors such as Alice Walker, Toni Morrison, Maya Angelou, Maxine Hong, Kingston, Cabeza de Baca, Louise Erdrich, Leslie Marmon Silko and others.
Components: Lecture
Cross Offering: ENGLISH 2930, WOMSTD 2930
GE: Ethnic and Gender, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 2940  3 credits
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 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 Offering: ECONOMIC 2940, POLISCI 2940
GE: Ethnic and Gender, Social Science

ETHNSTDY 3010  3 credits
Race, Gender and United States Labor History
Social, cultural, and economic history of American working people from the colonial period to the present.
Components: Laboratory, Lecture
Cross Offering: HISTORY 3010
GE: Ethnic Studies, Historical Perspective

ETHNSTDY 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 Offering: SOCIOLGY 3230
GE: Ethnic and Gender, Social Science
Prereqs/Coreqs: P: SOCIOLGY 1030

ETHNSTDY 3240  3 credits
African-American History: 1619 to Present
The historical experience of African-Americans since 1619.
Components: Lecture
Cross Offering: HISTORY 3240
GE: Ethnic Studies, Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of the instructor or department chair
ETHNSTDY 3400  3 credits
**History of Chicano Peoples in the U.S.**
An examination of the history of the indigenous people(s) in the Americas who experienced the Spanish conquest and colonization and their subsequent inclusion in the United States as a result of U.S. expansion, war, economic imperialism and migration within the Americas.

**Components:** Lecture  
**GE:** Ethnic Studies, Historical Perspective

ETHNSTDY 3410  3 credits
**Chicano Literature**
An examination of representative texts from various Chicana/Chicano writers, covering a range of genres and generations. There will be an emphasis on the relationship between literary production and historical context, in particular, the involvement of the writers in the social and political conflicts affecting the Chicano community.

**Components:** Lecture  
**Cross Offering:** ENGLISH 3410  
**GE:** Ethnic Studies, Humanities  
**Prerequisites/Corequisites:** P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3630  3 credits
**Ethnic and Gender Equity in Education**
Although ethnic and gender stereotyping has lessened in recent years, ethnic and gender bias still persists. Bias is reflected in teacher interaction and teacher expectations of student achievements. This course teaches individuals how to reduce and remove ethnic and gender disparity.

**Components:** Lecture  
**Cross Offering:** TEACHING 3630, WOMSTD 3630  
**GE:** Ethnic and Gender

ETHNSTDY 3720  3 credits
**Ethnic Rights and Politics**
Changing patterns of ethnic relations, legislative and judicial developments affecting ethnic rights, political movements, political system and socio-economic discrimination, judicial system and legal protection of ethnic rights. Women and other minorities.

**Components:** Lecture  
**Cross Offering:** POLISCI 3720  
**GE:** Ethnic Studies, Social Science  
**Prerequisites/Corequisites:** P: POLISCI 1230 or permission of instructor

ETHNSTDY 3730  3 credits
**Black Literature in America**
Black literature in the United States from the Civil War to the present, including novels, poetry, drama and selected non-fiction.

**Components:** Lecture  
**Cross Offering:** ENGLISH 3730  
**GE:** Ethnic Studies, Humanities  
**Prerequisites/Corequisites:** P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3740  3 credits
**Asian-American Literature**
A survey of Asian-American literature beginning in the early 1900s and continuing to present times. Includes works of fiction, autobiography, poetry and drama. Focuses on writers from different literary and oral traditions including (but not limited to) Mandarin Chinese, Japanese, Thai, Hmong, Vietnamese and Indian, and examines the impact of family, culture and gender both within these traditions and between a particular tradition and U.S. popular culture.

**Components:** Lecture  
**Cross Offering:** ENGLISH 3740  
**GE:** Ethnic Studies, Humanities  
**Prerequisites/Corequisites:** P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3750  3 credits
**American Literature of Ethnicity and Immigration**
An examination of literature from a variety of U.S. “racial” and “ethnic” groups, including African-, Italian-, Mexican-, Jewish-, Asian- and Native-American. Emphasis will be placed on the meanings of “race” and “ethnicity,” the effects of immigration and the impact of gender in this literature.

**Components:** Lecture  
**Cross Offering:** ENGLISH 3750  
**GE:** Ethnic Studies, Humanities  
**Prerequisites/Corequisites:** P: ENGLISH 1130 and ENGLISH 1230

ETHNSTDY 3760  3 credits
**Wisconsin Indian Literature**
An exploration of Wisconsin Indian literatures from the oral tradition to the present; texts studied will include epics, legends, poetry, novels and selected non-fiction, including such writers as Mountain Wolf Woman, Louise Erdrich and Susan Power.

**Components:** Lecture  
**Cross Offering:** ENGLISH 3760  
**GE:** Ethnic Studies, Humanities  
**Prerequisites/Corequisites:** 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 will include Frances Harper, Ida Wells-Barnett, bell hooks and Audre Lorde.

**Components:** Lecture  
**Cross Offering:** WOMSTD 3830  
**GE:** Ethnic and Gender  
**Prerequisites/Corequisites:** Sophomore standing or above
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
- Theater
- Theater Emphasis

MINORS:

Art
- Speech Communication
- Theater

About the Department and Majors

The Department of Performing and Visual Arts offers degree programs in art, music, speech communication and theater. Art means two things:
1. Creative works and the process of producing them.
2. The whole body of work in the art forms that make up the entire human intellectual and cultural heritage.

When we study art, we involve ourselves in a particular set of processes, products, influences and meanings. We recognize that art is expressed in various styles, reflects different historical circumstances and draws on a multitude of social and cultural resources.

The terms “arts”, “discipline” and "art form" refer to music, theater and the visual arts, and recognize that each of these encompasses a variety of forms and subdisciplines. When we speak of the arts, it means these arts disciplines taken together or, most inclusively, the totality of all the activities in the arts.

At UW-Platteville, speech* is considered a performance-based art.

* National Standards for Arts Education, 1995 MENC.

About the Department and Major

Programs of study are offered in art, art education or graphic design, each leading to a bachelor of arts or a 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 Liberal Arts and Education 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 Science Degree
Total for Graduation.......................... 120 credits
General Education............................. 44-58 credits
Major Studies................................. 48-60 credits

Bachelor of Arts Degree

Students who wish to receive a Bachelor of Arts instead of a Bachelor of Science degree 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 art education.
Note: All art students (all emphases) must complete a sophomore year portfolio review. See advisor.
Art Major

Bachelor of Arts in Art (Non-Teaching)

Mission Statement

The art program at the University of Wisconsin-Platteville is dedicated to high quality instruction in curricula emphasizing art theory, history, and visual art creation. The Bachelor of Arts in Art 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>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 1010</td>
<td>Drawing I</td>
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<td>Drawing II</td>
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<td>ART 2020</td>
<td>Drawing III</td>
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<td>ART 2010</td>
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<td>ART 3530</td>
<td>Art History V</td>
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<td>ART 4230</td>
<td>Theory of Art</td>
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<tr>
<td>ART 4930</td>
<td>Presentation and Marketing</td>
<td>2 cr</td>
</tr>
<tr>
<td>ART 4950</td>
<td>Senior Show</td>
<td>1 cr</td>
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</table>

Electives: 12 ART credits

Graphic Design Emphasis (48 credits)

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<tr>
<td>ART 2240</td>
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<tr>
<td>ART 2330</td>
<td>Illustration II</td>
<td>3 cr</td>
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</tbody>
</table>

Students are strongly urged to enroll in:
* ART 4020 Computer Graphics for Artists 2 cr

Graphic Design Emphasis majors are required to have a Minor in Imaging Media from the Department of Communication Technologies. The course requirements include: COMMNCTN XXXX Software: Any 6 courses 6 cr, COMMNCTN 1230 Survey of Imaging 3 cr, COMMNCTN 1630 Introduction to Mass Media 3 cr, COMMNCTN 1930 Basic Photography 3 cr and COMMNCTN 3070 History of Imaging 3 cr.

Concentrations (choose one):

New Media Concentration

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

<table>
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<tr>
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<td>COMMNCTN 2050</td>
<td>Photography II</td>
<td>3 cr</td>
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<tr>
<td>COMMNCTN 4500</td>
<td>Photography III</td>
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</table>

Bachelor of Science in Art Education

Mission Statement

The art program at the University of Wisconsin-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 Communication Technologies Department 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.
**Art Education Emphasis (57-60 credits)**

**Required Courses:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
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</thead>
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<td>ART 1520</td>
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<tr>
<td>ART 2140</td>
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<tr>
<td>or ART 3530</td>
<td>Art History V</td>
<td>3 cr</td>
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<tr>
<td>ART 3220</td>
<td>Print Making I</td>
<td>2 cr</td>
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<tr>
<td>ART 3320</td>
<td>Print Making II</td>
<td>2 cr</td>
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<tr>
<td>ART 4230</td>
<td>Theory of Art</td>
<td>3 cr</td>
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<tr>
<td>ART 1740</td>
<td>Introduction to Digital Media</td>
<td>3 cr</td>
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<tr>
<td>ART 2920</td>
<td>Crafts I: Fiber and Fabrics</td>
<td>2 cr</td>
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<tr>
<td>ART 2520</td>
<td>Ceramics I</td>
<td>2 cr</td>
</tr>
<tr>
<td>ART 4530</td>
<td>Art Education II: Elementary/Middle School Methods</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 4630</td>
<td>Art Education III: 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>
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</tbody>
</table>

**Electives:**

Select 6 elective credits in Studio 3-D  
Select 4 additional credits

**Art Minor (24 credits)**

**Required Courses:**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
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<td>Art History II</td>
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</tr>
<tr>
<td>ART 4230</td>
<td>Theory of Art</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Electives:** 12 ART credits

**Art Core Programs**

Suggested First Year core for art emphasis, art education emphasis and graphic design emphasis:

**Year 1 - 1st Semester:**

- Drawing I 2 cr  
- Painting I 2 cr  
- Basic Design I 2 cr  
- General Requirements

**Year 1 - 2nd Semester:**

- Drawing II 2 cr  
- Painting II 2 cr  
- Basic Design II 2 cr  
- General Requirements

Suggested Second Year core for art emphasis and art education emphasis:

**Year 2 - 1st Semester:**

- Painting III 2 cr  
- Introduction to Digital Media 3 cr  
- Art History I 3 cr  
- General Requirements

**Year 2 - 2nd Semester:**

- Drawing III 2 cr  
- Art History II 3 cr  
- Sophomore Portfolio Review  
- General Requirements

Suggested Second Year core for graphic design emphasis:

**Year 2 - 1st Semester:**

- Introduction to Digital Media 3 cr  
- Graphic Design I 3 cr  
- Art History I 3 cr  
- General Requirements

**Year 2 - 2nd Semester:**

- Graphic Design II 3 cr  
- Art History II 3 cr  
- Minor courses 1-3 cr  
- Sophomore Portfolio Review  
- General Requirements
### ART COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1010</td>
<td>2</td>
<td><strong>Drawing I: Basic Drawing</strong></td>
<td>Introduction to the basic problems of composition and representation of drawing using a variety of professional media and techniques. Components: Lecture</td>
</tr>
<tr>
<td>ART 1230</td>
<td>3</td>
<td><strong>Art and Children’s Literature for Teachers</strong></td>
<td>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</td>
</tr>
<tr>
<td>ART 1240</td>
<td>3</td>
<td><strong>Art and Social Studies for Teachers</strong></td>
<td>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 multi-culturalism. Components: Lecture</td>
</tr>
<tr>
<td>ART 1310</td>
<td>2</td>
<td><strong>Drawing II: Styles</strong></td>
<td>The study of various methods of visual representation exploring the stylistic possibilities of textures, contours and linear pattern. Components: Lecture</td>
</tr>
<tr>
<td>ART 1420</td>
<td>2</td>
<td><strong>Basic Design I: 2-D</strong></td>
<td>Introduction to the elements and fundamental concepts of two dimensional visual arts. For first year art majors. Components: Lecture</td>
</tr>
<tr>
<td>ART 1520</td>
<td>2</td>
<td><strong>Basic Design II: 3-D</strong></td>
<td>Introduction to the elements of three dimensional visual arts. For first year art majors. Components: Lecture</td>
</tr>
<tr>
<td>ART 1630</td>
<td>3</td>
<td><strong>Lettering and Typographical Design</strong></td>
<td>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</td>
</tr>
<tr>
<td>ART 1710</td>
<td>2</td>
<td><strong>Painting I: Beginning Painting</strong></td>
<td>Preparations for painting stressing the tools, techniques and principles of painting. Components: Lecture</td>
</tr>
<tr>
<td>ART 1740</td>
<td>3</td>
<td><strong>Introduction to Digital Media</strong></td>
<td>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</td>
</tr>
<tr>
<td>ART 2010</td>
<td>2</td>
<td><strong>Drawing IV: Intermediate Drawing</strong></td>
<td>Drawing IV students will learn to expand visual awareness and develop their control of drawing as a tool for research and invention. Drawing problems progress 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 2020</td>
</tr>
<tr>
<td>ART 2020</td>
<td>2</td>
<td><strong>Drawing III: Figure Drawing</strong></td>
<td>Drawing the human figure with emphasis on anatomy, structure, composition and form. Components: Lecture Prereqs/Coreqs: P: ART 1010 and ART 1310</td>
</tr>
<tr>
<td>ART 2120</td>
<td>2</td>
<td><strong>Styles in Drawing</strong></td>
<td>The study of various methods of representation exploring the stylistic possibilities of textures, contours, linear pattern and chiaroscuro. Components: Lecture</td>
</tr>
<tr>
<td>ART 2140</td>
<td>3</td>
<td><strong>Art History I: Ancient and Medieval</strong></td>
<td>The history of western art from ancient times through the Gothic period. Components: Lecture GE: Fine Arts</td>
</tr>
<tr>
<td>ART 2210</td>
<td>3</td>
<td><strong>Art History II: Renaissance to 1879</strong></td>
<td>The history of art from the Renaissance to the beginning of Realism in the 19th century. Components: Lecture GE: Fine Arts</td>
</tr>
<tr>
<td>ART 2240</td>
<td>3</td>
<td><strong>Illustration I</strong></td>
<td>Exploration of various basic illustration media and techniques. Includes skill, visualization and conceptualization development as well as investigations of the relationship between illustration, as an individual art form, and graphic design applications. Components: Lecture Prereqs/Coreqs: P: ART 1420 and ART 1520</td>
</tr>
</tbody>
</table>
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 2 credits
Painting II: Intermediate Painting
A continuation of ART 1710.
Components: Lecture
Prereqs/Coreqs: P: ART 1710 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 2490 2 credits
Painting III: Figure Painting
Painting III explores the human figure in form, proportion and anatomy in studio. Students study action, volume, scale, design and expressive potential of human form. Formal aspects of painting are studied through intensive observation of live models.
Components: Lecture
Prereqs/Coreqs: P: ART 2410 and ART 2020

ART 2500 1 - 3 credits
Topics in Art
The study of selected topics common to visual art disciplines. The topic to be covered will be identified in the course title.
Components: Lecture

ART 2510 2 credits
Sculpture I: Basic
Introduction to the concepts and media of three dimensional art.
Components: Lecture
Prereqs/Coreqs: P: ART 1520

ART 2520 2 credits
Ceramics I
Hand and wheel methods in clay production, glazing and firing.
Components: Laboratory

ART 2620 2 credits
Ceramics II
Continuation of Art 2520, stressing use of the pottery wheel.
Components: Laboratory
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 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 Offering: ETHNSTDY 2730
GE: Ethnic Studies, Fine Arts

ART 2740 3 credits
Graphic Design II: Introduction to Design Studio
Introduction to studio techniques and concepts for graphic design based on exploration of formal values in design and their relation to advanced visual communication applications.
Components: Lecture
Prereqs/Coreqs: P: ART 2710, ART 1740 or COMMNCTN 3130

ART 2750 3 credits
Native American Art
Art of various culture groups of American Indians, ranging from the Inuit of the far north to tribes and nations of the southwest. Ancient and traditional art forms will be studied as well as history of art in times of culture contact and conflict, continuing through work created by contemporary tribal artists informed by those traditions.
Components: Lecture
Cross Offering: ETHNSTDY 2750
GE: Ethnic Studies, Fine Arts

ART 2920 2 credits
Crafts I: Fibers and Fabrics
Construction using fiber and fabrics; fabric making and decorating; weaving, printing and related media.
Components: Laboratory

ART 3020 1 - 3 credits
Studies in Art I
Concentrated study in the specific area of studio, which is indicated in the current class schedule. May be repeated under different headings.
Components: Laboratory

ART 3030 3 credits
Studies in Art II
Concentrated study in a specific area of art which is indicated in the current class schedule. May be repeated under different headings.
Components: Lecture

ART 3110 3 credits
Drawing V: Perspective Drawing
Detailed studies of ways in which principles of perspective are used to represent objects in space.
Components: Lecture
ART 3140  2 credits
Drawing VI: Advanced Drawing
Advanced problem-solving in drawing requiring a 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 1310

ART 3220  2 credits
Printmaking I
Relief printing and intaglio.
  Components: Laboratory, Lecture

ART 3320  2 credits
Printmaking II
Advanced printing processes.
  Components: Laboratory

ART 3340  3 credits
Art History III: Modern
The history of modern art from Realism to the present showing the
development of the important ideas and styles in art and architecture.
  Components: Lecture
  GE: Fine Arts

ART 3410  2 credits
Painting IV: Advanced Painting
A continuation of ART 2410 and ART 2490.
  Components: Lecture
  Prereqs/Coreqs: P: ART 2490

ART 3510  2 credits
Sculpture II: Intermediate
Sculpting heads of humans, animals and aliens to experience clays,
conditioning clay, camera, calipers and ruler, measurement charts,
modeling tools, hollowing out tools, armatures, turntables, sculpture
stand, kiln and patina.
  Components: Lecture
  Prereqs/Coreqs: P: ART 2510

ART 3530  3 credits
Art History V: Far Eastern Art
A survey of the art of China, India and Japan.
  Components: Lecture
  GE: Fine Arts

ART 3610  2 credits
Crafts II: Jewelry
Basic techniques in jewelry design and production.
  Components: Lecture

ART 3710  2 credits
Painting VI: Watercolor
An introduction to various methods of water color painting.
  Components: Lecture

ART 3720  2 credits
Graphic Design I
Introduction to the studio techniques and concepts for graphic
design based on exploration of formal values in design and their
relation to visual communication applications.
  Components: Laboratory

ART 3740  1 - 3 credits
Graphic Design V: History and Systems
A history of graphic design in the visual arts, the role of the graphic
artist and designer and practical experience in the use of the design
systems.
  Components: Lecture

ART 3800  2 credits
Ceramics III: Advanced
Advanced work in clay construction, stressing individual projects.
  Components: Laboratory
  Prereqs/Coreqs: P: ART 2520 and ART 2620

ART 3910  3 credits
Graphic Design III: Advanced Typography
Advanced studies into the art and techniques of typographical
design and applications to graphic design.
  Components: Lecture
  Prereqs/Coreqs: P: ART 2710

ART 4030  3 credits
Graphic Design IV: Advanced Graphic Design Studio
Continuation of studio techniques and advanced concepts for
graphic design based on further exploration of formal values in
design and their relation to advanced visual communication.
  Components: Lecture
  Prereqs/Coreqs: P: ART 2740

ART 4220  2 credits
Advanced Life Drawing
  Components: Laboratory

ART 4230  3 credits
Theory of Art
A survey of the theory of art with an emphasis on contemporary
ideas.
  Components: Lecture
  GE: Fine Arts

ART 4510  2 credits
Sculpture III: Advanced, Materials and Techniques
Advanced work in sculpture with special emphasis on the casting of
metal sculpture and foundry methods, techniques and preparations
for casting.
  Components: Lecture
  Prereqs/Coreqs: P: ART 2510 and ART 3510

ART 4530  3 credits
Art Education II: Elementary and Middle 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
ART 4630 3 credits
Art Education III: 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

ART 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 are to be stipulated in a statement of agreement (learning contract) between the student and department.
Components: Field Studies

ART 4700 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 4710 2 - 3 credits
Independent Work in Drawing
Drawing as an independent creative medium.
Components: Independent Study
Prereqs/Coreqs: P: ART 1310

ART 4720 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 4730 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 4740 2 - 3 credits
Independent Work in Ceramics
Advanced work on projects chosen by the student.
Components: Independent Study
Prereqs/Coreqs: P: ART 3510

ART 4750 2 - 3 credits
Independent Work in Sculpture
Advanced work on sculpture projects chosen by the student.
Components: Independent Study

ART 4760 2 - 3 credits
Independent Work in Sculpture Casting
Advanced work on sculpture projects chosen by the student.
Components: Independent Study

ART 4770 2 - 3 credits
Independent Work in Crafts
Independent creative work in craft areas chosen by the student.
Components: Independent Study

ART 4780 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 4790 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

ART 4800 3 credits
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 1710 and 4 credits in 3000 or above level art courses

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
Music
http://www.uwplatt.edu/music

Department Chair: G. Daniel Fairchild
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Phone: 608-342-1143
E-mail: fairchig@uwplatt.edu

Professors:
Barry L. Ellis
G. Daniel Fairchild
Michael E. Lewis
Robert K. Demaree

Associate Professor:
Joseph Caploe

Assistant Professors:
Eugene Alcalay
David Cooper
Benjamin Shapira

Lecturers:
Allen Cordingley
Margaret Cornils
Susan Savage Day
Rebekah Demaree
Gregory Dennis
Nancy Fairchild
Matthew Gregg
John Marco

About the Music Program and Major

The 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, the community and the 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 level, middle school level 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 Liberal Arts and Education 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 section, “Teacher Licensure,” listed under School of Education.

The 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 Department of Performing and Visual Arts serves the student body and the 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 ....................................45-61 credits

Professional education courses (music majors only): 32 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 the University of Wisconsin-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 (57 credits):

MUSIC 1090 Bodywork for Musicians 1 cr
MUSIC 1190 World Rhythm Rudiments 1 cr
MUSIC 1290 Computer Applications in Music Education 1 cr
MUSIC 1730 Music Theory I - Music Theory Fundamentals w/MIDI 3 cr
MUSIC 1830 Music Theory II - Tonal Music Theory w/MIDI 3 cr
MUSIC 1530 Aural Skills I 1 cr
MUSIC 1630 Aural Skills II 1 cr
MUSIC 2250 History and Literature of Western Music I 2 cr
MUSIC 2350 History and Literature of Western Music II 2 cr
MUSIC 2450 World Music Survey 3 cr
MUSIC 2530 Aural Skills III 1 cr
MUSIC 2730 Music Theory III - Advanced Tonal Theory, Counterpoint and Composition 3 cr
MUSIC 2920 Beginning Conducting 2 cr
MUSIC 3250 History and Literature of Western Music III 2 cr
MUSIC 3350 History and Literature of Western Music IV 2 cr
MUSIC 3530 Orchestration and Arranging 2 cr
MUSIC 3630 Aural Skills IV 1 cr
MUSIC 3730 Music Theory IV - Form and Analysis 3 cr
MUSIC 3830 Music Theory V - 20th Century Music Theory 2 cr
MUSIC 3920 Intermediate Conducting (Major Ensemble) 2 cr
MUSIC 3920 Intermediate Conducting (Major Ensemble) 7 cr
MUSIC 3920 Intermediate Conducting (Major Ensemble) 7 cr
MUSIC 3920 Intermediate Conducting (Major Ensemble) 7 cr
MUCAP 3440 Accompanying 1 cr
MUCAP 4230 Advanced Conducting - Instrumental 2 cr
MUCAP 4910 Recital Semester 2 cr

*Pianists must add 4 credits of voice or secondary instrument determined by the certification desired.

Choral Music Education Emphasis (B-21)
(68 credits)

Includes Music Education Core Courses (57 credits):

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

General Music Education Emphasis (B-21)
(64 credits)

Includes Music Education Core Courses (57 credits):

MUSIC 3860 Elementary Music Methods (for majors) 3 cr
MUSIC 3760 Secondary General Music Methods 2 cr
MUAP 4600 Applied Voice 2 cr

Instrumental Music Education Emphasis (B-21)
(71 credits)

Includes Music Education Core Courses (57 credits):

MUSIC 2170 High Brass Techniques 1 cr
MUSIC 2270 Low Brass Techniques 1 cr
MUSIC 2370 Percussion Techniques 1 cr
MUSIC 2470 String Techniques 1 cr
MUSIC 2570 High Woodwind Techniques 1 cr
MUSIC 2670 Double Reed Woodwind Techniques 1 cr
MUSIC 3260 Instrumental Music Methods I 2 cr
MUSIC 3360 Instrumental Music Methods II 2 cr
MUSIC 3660 Jazz Techniques 2 cr
MUSIC 4230 Advanced Conducting - Instrumental 2 cr

Pianists may substitute MUSIC 3440 Accompanying 1 cr in the performing group requirements.

*Pianists must add 4 credits of voice or secondary instrument determined by the certification desired.

Bachelor of Arts in Music

Mission Statement

The music program at the University of Wisconsin-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)

MUSIC 1090 Bodywork for Musicians 1 cr
MUSIC 1190 World Rhythm Rudiments 1 cr
MUSIC 1290 Computer Applications in Music 1 cr
MUSIC 1730 Music Theory I - Music Theory Fundamentals w/MIDI 3 cr
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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>
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<tr>
<td>MUSIC 3250</td>
<td>History and Literature of Western Music III</td>
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<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 Performing Organizations (Major Ensemble)</td>
<td>8 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Master Class/Convocation (7 semesters)</td>
<td>0 cr</td>
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<tr>
<td>MUAP</td>
<td>Applied Instrument or Voice</td>
<td>7 cr</td>
</tr>
<tr>
<td>MUAP 4910</td>
<td>Recitals Semester</td>
<td>2 cr</td>
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</tbody>
</table>

**Instrumental Music Emphasis (62 credits)**

**Non-teaching core courses (53 credits):**

<table>
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<tr>
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<th>Course Title</th>
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<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>
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<tr>
<td>MUSIC 2340</td>
<td>Piano Techniques 3rd Semester</td>
<td>1 cr</td>
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<tr>
<td>MUSIC 2440</td>
<td>Piano Techniques 4th Semester</td>
<td>1 cr</td>
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<tr>
<td>Music Electives</td>
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<td>5 cr</td>
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</table>

**Electives (5 credits):**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 2170</td>
<td>High Brass Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2270</td>
<td>Low Brass Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2370</td>
<td>Percussion Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2470</td>
<td>String Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2570</td>
<td>High Woodwind Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 2670</td>
<td>Double Reed Woodwind Techniques</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 3430</td>
<td>Jazz Improvisation and Theory</td>
<td>3 cr</td>
</tr>
<tr>
<td>MUSIC 3530</td>
<td>Orchestration and Arranging</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 3920</td>
<td>Intermediate Conducting</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 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 (1 extra organization)</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUAP</td>
<td>Applied Lessons (1 extra semester)</td>
<td>1 cr</td>
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</table>

**Vocal Music Emphasis (64 credits)**

**Non-teaching core courses (53 credits):**

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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSIC 2770</td>
<td>Diction I</td>
<td>1 cr</td>
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<tr>
<td>MUSIC 2870</td>
<td>Diction II</td>
<td>1 cr</td>
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<tr>
<td>MUSIC 1340</td>
<td>Piano Techniques 1st Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>MUSIC 1440</td>
<td>Piano Techniques 2nd semester</td>
<td>1 cr</td>
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<td>MUSIC 2340</td>
<td>Piano Techniques 3rd Semester</td>
<td>1 cr</td>
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<tr>
<td>MUSIC 2440</td>
<td>Piano Techniques 4th Semester</td>
<td>1 cr</td>
</tr>
<tr>
<td>Music Electives</td>
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<td>5 cr</td>
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**Electives (5 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</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 3380</td>
<td>Choral Literature</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Performance Organization (1 extra organization)</td>
<td>1 cr</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 sem)</td>
<td>2 cr</td>
</tr>
<tr>
<td>MUSIC 4020</td>
<td>Piano Pedagogy (2 sem)</td>
<td>4 cr</td>
</tr>
<tr>
<td>MUAP</td>
<td>Second instrument or voice applied lessons</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</td>
<td>Performance Organization (1 extra 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>

**Music and Business Major (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>4 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>
</tbody>
</table>

**MUAP Applied Lessons (1 extra semester)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 4910</td>
<td>Recitals Semester</td>
<td>2 cr</td>
</tr>
</tbody>
</table>
MUSIC 3350 History and Literature of Western Music IV 2 cr
MUSIC 3830 Music Theory V: 20th Century 2 cr
MUSIC 4290 Music Media, MIDI and Recording Technology 2 cr
MUSIC 4510 Seminar in Music Business I 2 cr
MUSIC 4520 Seminar in Music Business II 4 cr
MUAP xxxx Applied Instrument or Voice 4 cr
MUSIC 1XX0 Performing Organizations (Major Ensemble) 7 cr
MUSIC 1340 Piano Techniques 1st Semester 1 cr
MUSIC 1440 Piano Techniques 2nd Semester 1 cr
MUSIC 2340 Piano Techniques 3rd Semester 1 cr
MUSIC 2440 Piano Techniques 4th Semester 1 cr
MUSIC Master Class/Convocation 0 cr (7 semesters)
MUAP 4910 Recitals (one-half minimum) 2 cr
Music Electives 6 cr

Electives (6 credits):
MUSIC 2170 High Brass Techniques 1 cr
MUSIC 2270 Low Brass Techniques 1 cr
MUSIC 2370 Percussion Techniques 1 cr
MUSIC 2470 String Techniques 1 cr
MUSIC 2570 High Woodwind Techniques 1 cr
MUSIC 2670 Double Reed Woodwind Techniques 1 cr
MUSIC 3430 Jazz Improvisation and Theory 3 cr
MUSIC 3530 Orchestration and Arranging 2 cr
MUSIC 3920 Intermediate Conducting 2 cr
MUSIC 3280 Wind Literature 2 cr
MUSIC 3380 Choral Literature 2 cr
MUSIC 4290 Music Media, MIDI, and Recording Technology 2 cr

Required Business Courses (24 credits):
ACCTING 2010 Financial Accounting I 3 cr
ACCTING 2020 Management Accounting II 3 cr
BUSADMIN 1200 Introduction to American Business Enterprise 3 cr
BUSADMIN 4990 Internship* 1-8 cr (in a music related field)
BUSADMIN Electives 4-11 cr

*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, 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, Orchestra, Marching Pioneers, University Singers or Chamber Choir. One-half hour per week per credit. There are no applied music fees above the regular tuition charge, but special course fees (i.e. purchase of music) may apply. Lesson times and instructors to be arranged.

Prerequisites for MUAP 3010, 3110, 4010, 4110:

Successful completion of the Music Upper Divisional Examination. (Any student who fails to successfully complete the Music Upper Divisional Examination will be administratively dropped from the appropriate classes).

MUAP 1010 First semester 1 cr
MUAP 1110 Second semester 1 cr
MUAP 2010 Third semester 1 cr
MUAP 2110 Fourth semester 1 cr
MUAP 3010 Fifth semester 1 cr
MUAP 3110 Sixth semester 1 cr
MUAP 4010 Seventh semester 1 cr
MUAP 4110 Eighth semester 1 cr
MUAP 4910 Recital semester 2 cr

Section A - Piano
Section B - Voice
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

MUSIC COURSES

MUSIC 1090  1 credit
Bodywork for Musicians
Practically based course in posture and psycho-physical awareness. Specific topics include Alexander Technique and Feldenkreis. Required for all music majors.
  Components: Lecture

MUSIC 1100  1 credit
Jazz Ensemble
Open to performers by permission from faculty.
  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.
  Components: Laboratory

MUSIC 1290  1 credit
Computer Applications in Music Education
This course is an introduction to computer applications in music education using the Finale Music Notation Software Program and Apple Works 6. With Finale students will create music scores, learn how to add music markings, extract and print parts and learn how to use a MIDI keyboard. With Apple 6 students will create spreadsheets for grading private lessons and band attendance, do a mail merge and create word processing documents. Students will be required to use the WWW to find sheet music, musical databases and recording for use in teaching and research.
  Components: Lecture

MUSIC 1300  1 credit
Brass Ensemble
Open to performers by permission from faculty.
  Components: Laboratory

MUSIC 1340  1 credit
Piano Techniques - 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

MUSIC 1400  1 credit
Jazz Combo
Open to performers by permission from faculty.
  Components: Laboratory

MUSIC 1440  1 credit
Piano Techniques - 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

MUSIC 1500  1 credit
Chamber Ensemble
Open to performers by permission from faculty.
  Components: Laboratory

MUSIC 1510  1 credit
University/Community Orchestra
The study and performance of symphonic repertoire. Open to all university students and area musicians. Placement audition required.
  Components: Laboratory

MUSIC 1530  1 credit
Aural Skills I
To be taken with MUSIC 1730. Singing intervals, rhythms and melodies at sight.
  Components: Lecture
  Prereqs/Coreqs: C: MUSIC 1730

MUSIC 1590  3 credits
Music Appreciation
A guide to musical enjoyment and understanding through the examination of composition representative of the various musical forms, styles and media. May be used to satisfy partially the university humanities general requirement; not open for credit to music majors.
  Components: Lecture
  GE: Fine Arts

MUSIC 1600  1 credit
Woodwind Ensemble
Open to performers by permission from faculty.
  Components: Laboratory

MUSIC 1610  1 credit
University Bands
Section 1-Wind Ensemble; Section 2-Symphony 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

MUSIC 1630  1 credit
Aural Skills
To be taken with MUSIC 1830. Singing intervals, rhythms and melodies at sight.
  Components: Lecture
  Prereqs/Coreqs: C: MUSIC 1830

MUSIC 1710  1 credit
Choir
The study and performance of a wide variety of choral literature. Open to all university students and area musicians. Placement audition required.
  Components: Laboratory
MUSIC 1730  3 credits
Music Theory I: Music Theory Fundamentals w/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

MUSIC 1820  1 credit
Marching Pioneers
Membership is open to all university students by audition.
Components: Laboratory
GE: Physical Education

MUSIC 1830  3 credits
Music Theory II: Tonal Music Theory w/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
Section 1-Woodwind, 2-Brass, 3-String, 4-Jazz Ensemble, Choir, 8-Piano, 9-Pep Band. Open to performers by permission from faculty within each respective field.
Components: Laboratory

MUSIC 1910  1 credit
Choir
The study and performance of men's choral literature (Singing Pioneers - Men's Choir). The study and performance of a wide variety of women's choral literature (Coro D'Angeli - Women's Choir). Open to all university students and area musicians. Placement audition required.
Components: Laboratory

MUSIC 2020  1 credit
Music Theater
Open to performers by permission from faculty.
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
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
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
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
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, the Caribbean, Indian, Asian and the Pacific. The course is designed to provide the background to each culture's musical styles, explaining how they relate 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
Prereqs/Coreqs: P: MUSIC 1590
GE: Fine Arts

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
MUSIC 2530  1 credit
Aural Skills III
Singing intervals, rhythms and melodies at sight. Harmonic and melodic dictation.
Components: Lecture
Prereqs/Coreqs: C: MUSIC 2730

MUSIC 2550  3 credits
American Music
A survey course of 20th century music designed to acquaint students with American music from colonial times to the present, with an emphasis on the musical and sociological background which affects its development.
Components: Lecture
GE: Fine Arts

MUSIC 2570  1 credit
High Woodwind Techniques
A course intended to develop a knowledge of basic performance and teaching techniques of high woodwinds, especially flute and clarinet, at the elementary and secondary school levels.
Components: Laboratory

MUSIC 2670  1 credit
Double Reed Woodwind Techniques
A course intended to develop a knowledge of basic performance and teaching techniques of double reed woodwinds, especially oboe and bassoon, at the elementary and secondary school levels.
Components: Laboratory

MUSIC 2730  3 credits
Music Theory III: Advanced Tonal Theory, Counterpoint and Composition
An advanced course in which students develop mastery and demonstrate comprehension in music theory concepts including: 16th century polyphony analysis, augmented 6th chords, introduction to classical forms, extended tertian harmony, altered dominants, chromatic mediant and music theory in the Romantic era. Students develop performance skills on the piano keyboard of the above theoretical structures and demonstrate mastery of them through composition of musical scores applying computer music and MIDI technology.
Components: Lecture
Prereqs/Coreqs: P: MUSIC 1830

MUSIC 2770  1 credit
Diction I
Fundamentals of phonetics and sound production as applied to singing Italian and English. Instruction in the International Phonetic Alphabet.
Components: Lecture

MUSIC 2870  1 credit
Diction II
Fundamentals of phonetics and sound production as applied to singing German and French. Continuation of material from Music 2770.
Components: Lecture
Prereqs/Coreqs: P: MUSIC 2770

MUSIC 2920  2 credits
Beginning Conducting
The development of basic conducting techniques and an emphasis on practical application of conducting vocal and instrumental music.
Components: Lecture
Prereqs/Coreqs: P: MUSIC 1830

MUSIC 3160  3 credits
Elementary Music Methods for Non-Music Majors
Methods and techniques in music instruction for the elementary school, stressing techniques in singing, listening, use of instruments and materials for planning and directing musical experiences.
Components: Lecture

MUSIC 3170  2 credits
String Pedagogy
This course will introduce string pedagogy issues to music majors and minors who intend to teach strings, work with orchestras, or learn more about the different instruments. Class topics will include: homogeneous groups, heterogeneous groups, choosing methods books, comprehensive teaching and 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
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 levels. Topics include building the beginner program, rehearsal techniques and classroom management.
Components: Lecture
Prereqs/Coreqs: P: MUSIC 3730

MUSIC 3270  2 credits
Vocal Pedagogy
Two credit course which 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 the earliest beginnings to the present. Special emphasis is given to major works, composers, composition styles and programming.
Components: Lecture
Prereqs/Coreqs: P: MUSIC 3550
MUSIC 3350  2 credits
History and Literature of Western Music IV
Music history and literature from 1900 to present. Required for all music majors.
Components: Laboratory
Prereqs/Coreqs: P: Music 3250 and 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 class.)

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 levels. Topics include marching band techniques, program development and administration.
Components: Laboratory
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 3380  2 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 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 3730

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.
Components: Lecture
Prereqs/Coreqs: C: MUSIC 3730

MUSIC 3660  2 credits
Jazz Techniques
To provide prospective music teachers a systematic approach for developing the skills needed to teach and improvise jazz music in a big band and small group setting at the middle and high school levels.
Components: Lecture

MUSIC 3730  3 credits
Music Theory IV
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 3730

MUSIC 3820  2 credits
Form and Analysis
A study of tonal music in small and large forms.
Components: Lecture
Prereqs/Coreqs: P: MUSIC 3730
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 3830</td>
<td>2</td>
<td>Music Theory V: 20th Century Music Theory</td>
<td>A study of music theory from the end of the Common Practice Period to the 21st century. The course includes analysis and compositional music theory in important 20th century compositional practices applying computer music and MIDI application.</td>
</tr>
<tr>
<td>MUSIC 3860</td>
<td>3</td>
<td>Elementary Music Methods for Music Majors</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. Course designed for general music education majors planning to become certified in this area.</td>
</tr>
<tr>
<td>MUSIC 3920</td>
<td>2</td>
<td>Intermediate Conducting</td>
<td>An accelerated course in conducting that stresses interpretation of the full score, discipline of the baton and bodily movements and psychological procedures.</td>
</tr>
<tr>
<td>MUSIC 4010</td>
<td>1 - 3</td>
<td>Music Workshop</td>
<td></td>
</tr>
<tr>
<td>MUSIC 4230</td>
<td>2</td>
<td>Advanced Conducting-Instrumental</td>
<td>Advanced Conducting-Instrumental will review and refine techniques applicable to instrumental ensembles which were introduced in the first two semesters of conducting. Advanced techniques of score study, transposition concepts and the handling of asymmetrical time signatures will be added to the conductor's repertoire.</td>
</tr>
<tr>
<td>MUSIC 4290</td>
<td>2</td>
<td>Music Media, MIDI and Recording Technology</td>
<td>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 MP3s and Tiff creation and 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.</td>
</tr>
<tr>
<td>MUSIC 4320</td>
<td>2</td>
<td>Advanced Conducting-Choral</td>
<td>Two credit course 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.</td>
</tr>
<tr>
<td>MUSIC 4500</td>
<td>1 - 3</td>
<td>Seminar in Music</td>
<td>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.</td>
</tr>
<tr>
<td>MUSIC 4510</td>
<td>2</td>
<td>Seminar in Music Business I</td>
<td>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; and public relations in the music industry.</td>
</tr>
<tr>
<td>MUSIC 4520</td>
<td>2</td>
<td>Seminar in Music Business II</td>
<td>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; and producing commercials.</td>
</tr>
<tr>
<td>MUSIC 4660</td>
<td>1 - 6</td>
<td>Cooperative Field Experience</td>
<td>Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and the department.</td>
</tr>
<tr>
<td>MUSIC 4920</td>
<td>1 - 3</td>
<td>Independent Study</td>
<td>Department consent required by permission of instructor.</td>
</tr>
</tbody>
</table>

Components: Lecture
About the Program and Minor

The speech communication program offered by the 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 Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATER 1430</td>
<td>Oral Interpretation of Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>THEATER 1930</td>
<td>Voice and Diction</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPEECH 2250</td>
<td>Communication and Leadership in Small Groups</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3940</td>
<td>Grammar in Context</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPEECH 3010</td>
<td>Direct Studies in Forensics</td>
<td>1 cr</td>
</tr>
<tr>
<td>SPEECH 3250</td>
<td>Interpersonal Communication</td>
<td>3 cr</td>
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<td>SPEECH 3500</td>
<td>Persuasion and Argumentation</td>
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<td>SPEECH 4500</td>
<td>Communication Theory</td>
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DPI (Department of Public Instruction) certification for teaching also required courses:

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>COMMNCTN 1630</td>
<td>Introduction to Mass Media</td>
<td>3 cr</td>
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<tr>
<td>SPEECH 2010</td>
<td>Communication for Teachers</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPEECH 3990</td>
<td>Teaching Methods in Speech Communication</td>
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SPEECH COURSES

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<tbody>
<tr>
<td>SPEECH 1010</td>
<td>Public Speaking</td>
<td>2 cr</td>
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<tr>
<td>SPEECH 1250</td>
<td>Professional Speaking</td>
<td>3 cr</td>
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<tr>
<td>SPEECH 2010</td>
<td>Speech Communication for Teachers</td>
<td>3 cr</td>
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<tr>
<td>SPEECH 2250</td>
<td>Communication and Leadership in Small Groups</td>
<td>3 cr</td>
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<tr>
<td>SPEECH 3010</td>
<td>Directed Studies in Forensics</td>
<td>1 cr</td>
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<tr>
<td>SPEECH 3250</td>
<td>Interpersonal Communication</td>
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Components: Lecture
GE: International Education

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SPEECH 4020  3 credits
History and Theory of Rhetoric
This course is designed for students who will use and/or teach rhetoric strategies and structures in the professional world. From speech and communication theory to the teaching of critical and interpretational writing and reading, the study of rhetoric’s place in the history of ideas will help students to understand the place and power of language in the university and the professional workplace.

Components: Lecture
Cross Offering: ENGLISH 4020
GE: Humanities-2nd course only
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

SPEECH 4250  3 credits
Senior Seminar
Students participate in a seminar on selected topics in the field of speech communication.

Components: Seminar

SPEECH 4500  3 credits
Communication Theory
Students learn to build their own theory of communication while studying the major schools of thought about theory, knowledge and being as well as major theories concerning communication in a variety of contexts.

Components: Lecture

SPEECH 4990  1 - 3 credits
Independent Study
Under the direction of a faculty member, the student completes study and assignments covering a specific speech-related subject, not offered in regularly scheduled courses.

Components: Independent Study

Theater
http://www.uwplatt.edu/finearts/theatemain.htm

Department Chair: G. Daniel Fairchild
Office: 180 Doudna Hall
Phone: 608-342-1143
E-mail: fairchig@uwplatt.edu

Assistant Professors:
Ann Dillon Farrelly
David Schuler

Lecturer:
Brad Carlson

About the Department and Major
Theater is an ancient art form that has been included in academic study for thousands of years. Theater provides an opportunity for the synthesis of multiple academic disciplines including dance, music, art, literature, psychology, history, philosophy, engineering and various technologies, among others.

The Department of Performing and Visual Arts Theater degree is designed to serve students who will be pursuing a career in theater performance, technical theater, theater education or continuing further study in the field at the graduate level.

The theater program at the University of Wisconsin-Platteville is unique in that it offers numerous hands-on learning opportunities for students in all aspects of the discipline, essential for the academic tradition of laboratory experimentation and resume building. Students will have the opportunity to act, direct, design, manage and construct theatrical productions several times each year. Current season offerings include a musical, several one act plays and two full-length plays. In addition, the UWP Theater Program supports the Traveling Theater Troupe, which provides an opportunity for students to tour the region performing a production in a variety of venues.

Balancing traditional course work and practical training, the theater students at UWP enjoy individualized attention and smaller class sizes not usually offered in larger programs.

Occupations in theater can include, but are not limited to, accountants, actors, arts administrators, agents, artistic directors, board operators, booking associates, box office managers, business managers, buyers, casting directors, company managers, costume designers, costume builders, creative drama instructors, critics, development directors, directors, drama therapists, dramaturgs, electricians, film/cinema professionals, fine arts facilitators, garment cutters, house managers, librettists, lighting designers, lighting technicians, literary managers, lyricists, makeup specialists, managing directors, marketing directors, master electricians, milliners, music directors, painters, print makers, personal managers, playwrights, puppetry artists, producers, production managers, properties designers/managers, publicists, radio and television professionals, rental managers, riggers, scenic artists, set designers, stage combat instructors, stagehands, stage managers, stage movement specialists, stitchers, teachers, technical directors, tour managers, voice and diction specialists and wig designers.
All students intending to become licensed teachers must satisfy the requirements outlined in the section, “Teacher Licensure,” listed under School of Education in this catalog.

Programs of study lead to a Bachelor of Science or a Bachelor of Arts degree.

General Requirements

Bachelor of Science Degree
Total for Graduation..................120 credits
General Education..................... 44-58 credits
Major Studies......................................36 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 theater education.

Students must have a cumulative grade point average of 2.50 within the major studies for graduation.

Mission Statement

Bachelor of Arts in Theater

The theater program at the University of Wisconsin-Platteville is dedicated to high quality instruction in curricula emphasizing theater history, stagecraft, literature, directing and acting. The Bachelor of Arts in Theater curriculum is constructed to provide students with the fundamental background and specialized knowledge needed for analysis and understanding of theater, stage performance and theatrical direction. The theater degree is designed to serve students who will be pursuing a career in theater performance, technical theater or continued study in the field at the undergraduate level. Theater majors may also seek Wisconsin Department of Education certification in Theater.

Goals for Program Graduates
1. Develop conceptual understanding of theater history and literature as these subjects form the foundation for all areas of theater study.
2. Develop competence in artistic performance and direction.
3. Develop skills, knowledge and competencies needed for teaching theater (for students seeking Department of Instruction certification).

Theater Emphasis (36 credits)

General:
THEATER 1130 Introduction to Theater 3 cr
THEATER 1930 Voice and Diction 3 cr

Production:
THEATER 1230 Technical Theater I: Stagecraft 3 cr
THEATER 2730 Elements of Acting 3 cr
THEATER 3330 Play Direction 3 cr

History:
THEATER 4630 History of Theater and Drama 3 cr
THEATER 4730 History of Theater 3 cr

Dramatic Literature (6 credits):
THEATER 2130 Play Reading and Analysis 3 cr
THEATER 2630 Early American Theater and Drama 3 cr
WOMSTD 2860 Women in Literature: Drama 3 cr
THEATER 4220 Recent and Contemporary Drama 3 cr
ENGLISH 3530 Modern American Drama 2-3 cr
ENGLISH 4330 Shakespeare 3 cr

Practicum:
THEATER 4930 Studio Production 3 cr

Electives:
6 hours of electives from the theater curriculum

DPI (Department of Public Instruction) certification for teaching required courses:
THEATER 3220 Teaching Methods in Theater and Drama 2 cr
THEATER 2220 Play Production 3 cr

Theater Minors

Theater Minor
Production:
THEATER 1230 Technical Theater I: Stagecraft 3 cr
THEATER 2730 Acting I 3 cr
THEATER 3330 Play Direction 3 cr

History:
THEATER 4630 History of Theater and Drama I 3 cr
or
THEATER 4730 History of Theater and Drama II 3 cr

Dramatic Literature (6 credits):
THEATER 2130 Play Reading and Analysis 3 cr
THEATER 2330 Thematic Studies in Dramatic Literature 3 cr
THEATER 2630 Early American Theater and Drama 3 cr
WOMSTD 2860 Women in Literature: Drama 3 cr
THEATER 4220 Recent and Contemporary Drama 3 cr
ENGLISH 3330 British Drama 3 cr
ENGLISH 3530 Modern American Drama 2-3 cr
ENGLISH 4330 Shakespeare 3 cr

Practicum:
THEATER 4930 Studio Production 3 cr
(may be substituted for THEATER 3330)

Electives:
6 hours of electives from the theater curriculum

DPI (Department of Public Instruction) certification for teaching required courses:
THEATER 3220 Teaching Methods in Theater and Drama 2 cr
THEATER 1130 Introduction to Theater 3 cr
THEATER 2220 Play Production 3 cr
Students needing certification are encouraged to complete:

THEATER 4630 History of Theater and Drama I 3 cr
THEATER 4730 History of Theater and Drama II 3 cr

Music Theater Minor (24 credits)

THEATER 1230 ’Technical Theater I: Stagecraft’ 3 cr
THEATER 2730 Acting I 3 cr
THEATER 3330 Play Direction 3 cr
THEATER 2900 Dance for Music Theater 3 cr
MUAP Applied Voice Section B 4 cr
MUSIC XXXX Performing Organization* 4 cr
THEATER 3450 Directed Studies 3 cr
THEATER XXXX Music Theater Performance

Performance Minor (24 credits)

THEATER 2730 Acting I 3 cr
THEATER 2830 Acting II 3 cr
THEATER 3920 Acting III 3 cr
THEATER 2900 Dance for Music Theater 3 cr
THEATER 1930 Voice and Diction 3 cr
THEATER 2950 Stage Movement 3 cr
THEATER 2130 Play Reading and Analysis 3 cr
THEATER Electives 24 cr

Technical Theater Minor (25-26 credits)

THEATER 1230 ’Technical Theater I’ 3 cr
THEATER 2230 Technical Theater II 3 cr
THEATER 3250 Technical Theater III 3 cr
ART 1120 Introduction to Drawing 2 cr
ART 2130 Design and Color 3 cr
ART 2220 Perspective Drawing 3 cr
THEATER 2130 Play Reading and Analysis 3 cr
THEATER 3400 Drafting the Design 3 cr
THEATER XXXX Theater or Art Elective* 2-3 cr

* Course approved by department and students to fulfill requirements.

THEATER COURSES

THEATER 1130 3 credits
Introduction to the Theater
A survey of the elements of the theater; units on dramatic literature, history of the theater, dramatic theory and criticism, and technical theater.
Components: Lecture
GE: Fine Arts

THEATER 1230 3 credits
Technical Theater I: Stagecraft
The basic principles and techniques of set construction, scene design and lighting are studied and practiced in production situations.
Components: Laboratory, Lecture

THEATER 1430 3 credits
Oral Interpretation of Literature
Theory and practice of the oral communication of the major prose and poetic forms of literature.
Components: Lecture

THEATER 1930 3 credits
Voice and Diction
The study of the speaking voice, vocalization, articulation and pronunciation of language. Emphasis upon actor training and individual improvement.
Components: Lecture

THEATER 2130 3 credits
Play Reading and Analysis
An introduction to the contemporary repertoire and play analysis from both the literary and theatrical standpoints: form, style, plot structure, character, theme and staging requirements. Representative works from the modern theater will be read and analyzed in lecture and small group discussion.
Components: Lecture

THEATER 2220 3 credits
Play Production
Costuming, makeup and business organization, particularly geared toward educational theater. Through lecture, readings and laboratories, the history and construction of costumes, basic types of makeup and prosthetics, and business organization including public relations are studied.
Components: Lecture

THEATER 2230 3 credits
Technical Theater II: Lighting
Application of lighting design to the stage and natural environment; color principles, lighting instruments and control equipment. Production participation and labs.
Components: Lecture

THEATER 2500 1 - 3 credits
Topics in Theater
In-depth study of topics of interest in theater. The topics to be studied will be identified in the course title.
Components: Lecture

THEATER 2730 3 credits
Acting I: Elements of Acting
The physical, vocal and interpretive aspects and elements of acting. Improvisatory exercises and rehearsal and performance of scenes from modern plays.
Components: Lecture

THEATER 2830 3 credits
Acting II: Advanced Scene Work
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 primarily from plays by Ibsen, Chekhov, Strindberg and Shaw.
Components: Lecture
Prereqs/Coreqs: P: THEATER 2730 or permission of instructor

THEATER 2900 3 credits
Dance for Music Theater
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
THEATER 2950 3 credits
**Movement for Theater**
A basic and in-depth exploration of the fundamentals of move-
ment and body awareness which is necessary for acting in theater.
Includes basic dance, and mime to state combat, juggling and slap-
stick comedy.
*Components: Lecture*

THEATER 3220 2 credits
**Teaching Methods in Theater and Drama**
Methods, procedures and instructional materials for the high
school curricular and co-curricular theater and drama program.
*Components: Lecture*

THEATER 3250 3 credits
**Technical Theater III: Scenic Design**
An introduction to the world of scenic design for the theater. Basic
skills of drafting and rendering are learned and artistic expression is
cultivated.
*Components: Lecture*

THEATER 3330 3 credits
**Play Direction**
The basic principles and techniques of play direction, including the
choice of play, the rehearsal schedule, the analysis of the play, inter-
pretation, blocking and directing the actors are examined through
lecture and practical exercises.
*Components: Lecture*

THEATER 3450 1 - 3 credits
**Directed Studies in Theater**
Supervised participation in writing, production, directing or acting
in a theatrical production.
*Components: Independent Study*

THEATER 3920 3 credits
**Acting III: Style Acting**
The theory and practice of acting in plays from the classical theater
with a special emphasis upon Shakespearean drama.
*Components: Lecture*
**Prereqs/Coreqs: P: THEATER 2730 and THEATER 2830 or
permission of instructor**

THEATER 4220 3 credits
**Recent and Contemporary Drama**
Social, intellectual and scientific forces characteristic of recent times
as reflected through the medium of drama. Plays written by Euro-
pean, British and American writers will be read.
*Components: Lecture*
**GE: Fine Arts**

THEATER 4530 1 - 3 credits
**Independent Study**
Independent pursuit of a creative project designed by the student
and supervised by a staff member.
*Components: Independent Study*

THEATER 4600 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 agree-
ment (learning contract) between the student and department.
*Components: Field Studies*

THEATER 4730 3 credits
**History of Theater**
A continuation of Theater 4630. A general survey of the rise and
development of the theater and drama from Moliere to Ibsen.
*Components: Lecture*
**GE: Fine Arts**

THEATER 4830 3 credits
**Seminar in Theater**
A critical examination of one area within the theater field, the
specific subject to be determined by the instructor, the needs of the
students and the current problems in the field. This is an elective
course and is not repeatable.
*Components: Lecture*
**Prereqs/Coreqs: P: Senior or junior standing**

THEATER 4930 3 credits
**Studio Production**
Individual student production and direction of dramatic scripts.
*Components: Independent Study*
**Prereqs/Coreqs: P: THEATER 1230, THEATER 3330 and
junior standing**
MAJORS
English Majors:
- Literature
- English Education
- Professional Writing

English Minors:
- English Non-teaching
- English Education
- Language Arts
- Creative Writing
- Teaching English as a Second or Other Language

Certificate in English Writing

Philosophy Major
Philosophy Minor

Foreign Languages Majors:
- German
- German Education
- Spanish
- Spanish Education

Foreign Languages Minors:
- German
- German Education
- Spanish
- Spanish Education
- French

Certificate in Foreign Languages

About the Department and Majors

The Department of Humanities at UW-Platteville 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. The purpose of the study of the humanities is to explore the diversity of human thought and experience. Humanities courses teach students to contemplate and confront fundamental questions about reality, knowledge, justice and beauty. Our programs in English, Philosophy and Foreign Languages challenge students to explore a diversity of approaches to learning and life. 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 job skills. 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 (M.A. and Ph.D.), including advanced degrees in English, Foreign Languages and Philosophy but also for law school, communication studies and careers in student services, profit organizations, and humanitarian sectors. A majority of the Humanities courses satisfy the university general education requirement. Students are also encouraged to participate in cultural life through a student-led Humanities Club and membership in Alt.Arts, which publishes a literary magazine and schedules poetry readings and other performances. 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 study-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
http://www.uwplatt.edu/English.html

Department Chair: Stephanie Branson
Office: 349 Gardner Hall
Phone: 608-342-1925
E-mail: branson@uwplatt.edu

Professors:
Stephanie Branson
V. John Vacca (Emeritus)
Laura Wendorff

Associate Professors:
Teresa Burns
Dennis Ciesielski
Martha Drummond
Deborah Gillespie
Peter Hadorn
Kathleen Tigerman

Assistant Professors:
Laura Beadling
Kevin Concannon
J. Keith Hale
Yuanyuan Hu
Amy Parsons
Stormy Stipe
Kory Wein

Lecturers:
Andrea Cool
Richard Garrett
Harry Kronick
Wendy Perkins
Stephen Shepherd
Samuel Snoek-Brown

About the Department 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.

Literature Major (36 credits)
This classic 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 journalism, publishing, technical communication, editing and communication.

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.

Language Arts Minor (26 credits)
Designed for Education majors.

Teaching English As a Second or Other Language (TESOL) Minor (24 credits)
This minor is not only for English Education Majors. It also prepares students who are not enrolled in the School of Education programs for teaching non-native speakers in a variety of contexts. Students may gain employment at private and public schools as well as abroad at the secondary and post-secondary level.

Creative Writing Minor (24 credits)
This versatile minor focuses on the development of literary writing skills particularly in poetry, short story, non-fiction 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 writing and teaching careers in a variety of professional environments, in which creativity, critical thinking and a broad cultural perspective are required. 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, in businesses, in government and in non-profit 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, world and other literatures by becoming intel-
lectually more astute and literate. Technical writing experience and other professional skills, including training in Teaching English as a Second or Other Language, are all highly marketable skills that graduates acquire in our program. Our emphasis on the broad variety of human experiences through internships, community-based (service) learning, as well as participation in forums on and off-campus, helps students to participate in meaningful ways in society. Graduates in English are taught to apply their knowledge in all personal, professional and social situations in which ethical decisions demand a deepened knowledge of the human condition and an understanding of the past.

Specific Teaching Objectives of the English Program

- To develop students’ critical thinking skills through instruction in rhetoric, linguistic logic, argumentation and general communication skills
- To cultivate students’ understanding of the role of literature and culture in social structures
- To develop students’ knowledge of literary movements across centuries, periods and geographical regions
- To promote the ethical, aesthetic as well as socio-political 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

Graduates of the English program shall be competent and knowledgeable in:

1. using language, in particular writing, to fit a variety of audiences and purposes;
2. integrating logic, argumentation and interpersonal communication skills (both verbal and non-verbal);
3. understanding a breadth 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;
4. distinguishing the function and variety of literary and aesthetic forms, including fiction, non-fiction, drama and poetry;
5. analyzing, interpreting, evaluating and appreciating print and non-print texts, including film;
6. applying historic and contemporary rhetorical theories to all media and communication contexts;
7. conducting research, using a variety of sources, and reporting findings in diverse and appropriate formats and media.

The Writing Center

Director: Evelyn Martens
Office: 360 Gardner Hall
Phone: 608-342-1615
Email: martense@uwplatt.edu

Although the Writing Center is administered by Student Affairs, it is located in proximity to the English professors’ offices, at 360 Gardner Hall. 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 resumes. 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.

General 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 pre-requisites for most English courses. English majors must complete the first-year composition sequence, earn transfer credit for equivalent courses taken elsewhere or pass the 1130 test-out exam BEFORE taking any English course at the 2000-level or above.

Foreign Language Requirement (up to 16 credits)

All English majors must earn a “C” 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 also required to complete one foreign language through the fourth college semester (French 2140, German 2340 or Spanish 2940). Students must contact Professor Laura Anderson, the contact person of the Foreign Language Program in 228 Warner Hall, to determine at which level they should begin. Professor Anderson and other staff 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 also required to complete one foreign language through the third college semester (French 2040, German 2240 or Spanish 2840). Students must contact Professor Laura Anderson, the contact person of the Foreign Language Program in 228 Warner Hall, to determine at which level they should begin. Professor Anderson and other staff can also determine competency and retroactive credit.

Philosophy Requirement (up to 6 credits)

All English majors must earn a “C” or better in the required Philosophy courses.

Professional Writing and Literature English Majors (6 credits)

Students must take 6 credits from any Philosophy courses listed in the catalog.

English Education Majors (3 credits)

Students majoring in English Education must take either PHILOSOPHY 1130 Introduction to Philosophy or PHILOSOPHY 2530 Ethics.
Licensure Requirement for English Education Majors:

All students intending to become licensed teachers must satisfy the requirements outlined in the section “Teacher Licensure,” listed under the School of Education catalog description and course outline.

Writing Portfolio Requirement

Upon entering the junior year, English majors must submit a portfolio of their writing to the English program for approval before they may graduate. Requirements for a completed portfolio include at least eight items (no more than three from first-year composition courses; three papers that are at least four pages long; one paper that is a literary analysis; and one paper that is a research paper). The portfolio is evaluated by English faculty on a pass/fail basis. For guidelines, see “Requirements for the English Major Portfolio,” available in the English Office. English Education students who are of Junior standing prior to Fall 2006 are exempt from submitting this portfolio.

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.

Option I - English Literature Major (36 credits)

ENGLISH 2130, ENGLISH 2230
or
ENGLISH 2330 English Literature 3 cr
ENGLISH 2430
or
ENGLISH 2530 American Literature 3 cr
ENGLISH 2640
or
ENGLISH 2650 World Literature 3 cr
ENGLISH 4330 Shakespeare 3 cr
At least one of the above courses other than Shakespeare must focus on literature before 1800.

Literature courses at the 3000 level or above
ENGLISH 3940 Grammar in Context 3 cr
or
ENGLISH 4620 History of the English Language 3 cr
Writing courses at the 2000 level or above
Language, literature or writing courses 6 cr

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

Option II - 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 (ENGLISH 2120, ENGLISH 3120, ENGLISH 3140, ENGLISH 3950) 3 cr

Professional Writing course (ENGLISH 3000, ENGLISH 3240, ENGLISH 3360) 3 cr
ENGLISH 3030 The Teaching of Composition (Pre- or co-requisite for English 4730) 3 cr
ENGLISH 3930 Literature for Young Adults (Pre- or co-requisite for English 4730) 3 cr
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 “B” average or better for these courses.

Required Courses for the School of Education (6 credits)

ENGLISH 4730 Teaching English in Middle and Secondary Schools (Pre- or co-requirements: ENGLISH 3030 and ENGLISH 3930) 3 cr
Counts for total graduation credits, but does not count towards an English major
TEACHING 2130 Human Growth and Development 3 cr

Requirements for the School of Education

1. Pass Pre-Professional Skills Test
2. Apply in sophomore year to the School of Education
3. Fulfill requirements on Middle/Secondary Education Checklist
4. Pass English Content Test
5. Satisfy the requirements outlined in the section “Teacher Licensure Requirements” listed under Education in this catalog.

Option III - Professional Writing Major (36 credits)

ENGLISH 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 1-8 cr

Required course (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 3950 Writing for Performance 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
COMPUTER 2830 Advanced Microcomputer Applications 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

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 “B” average or better in these courses.
At least 2 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 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
5. Fulfill the requirements outlined in the section “Teacher Licensure Requirements” listed under Education in this catalog.

Creative Writing Minor (24 credits)

Required courses:
ENGLISH 2120 Creative Writing* 3-6 cr
ENGLISH 3120 Topics in Creative Writing* 3-6 cr
ENGLISH 3140 Poetry Writing 3 cr
ENGLISH 3360 Magazine Writing and Editing* 3-6 cr
ENGLISH 3950 Writing for Performance 3 cr

Required literature courses
(6 credits, 3 credits from this list):
ENGLISH 2730 Contemporary Literature 3 cr
ENGLISH 3810 The Modern Short Story 3 cr
ENGLISH 3820 Modern Poetry 3 cr
ENGLISH 3530 Modern American Drama 3 cr

* May be repeated for credit.

Students who take fewer than 24 credits from the above list may complete the minor by selecting up to 6 credits from:

Any literature course 3-6 cr
ENGLISH 3000 Technical Writing* 3 cr
ENGLISH 3240 Advanced Writing 3 cr
ENGLISH 3940 Grammar in Context 3 cr
ENGLISH 4680 Writing Internship 3 cr
COMMNCNT 2110 Applied Communication* 1 cr
COMMNCNT 3120 Applied Communication* 2 cr
COMMNCNT 2030 Basic Newswriting and Reporting 3 cr

Teaching English As a Second or Other Language Minor (TESOL) (24 credits)

Required courses:
ENGLISH 3260 Language and Culture 3 cr
ENGLISH 3250 Sociolinguistics 3 cr
ENGLISH 3940 Grammar in Context 3 cr
ENGLISH 4670 Methods of TESOL and Second Language Acquisition 3 cr
ENGLISH 4740 Practicum in TESOL 3 cr

Fluency in a language other than English or completion of the intermediate sequence in a foreign language 0-8 cr (French 2040-2140, German 2240-2340, Spanish 2840-2940)

A course which focuses on American minority communities, selected from:
ETHNSTDY 2130 The Native American Experience 3 cr
ETHNSTDY 2200 Introduction to Ethnic Studies 3 cr
ETHNSTDY 3240 African-American History: 1619 to present (cross offered - HISTORY) 3 cr
ETHNSTDY 3400 History of Chicano Peoples in the U.S. (cross offered - ENGLISH) 3 cr
ETHNSTDY 3410 Chicano Literature (cross offered - ENGLISH) 3 cr
ETHNSTDY 3730 Black Literature in America (cross offered - ENGLISH) 3 cr
ETHNSTDY 3740 Asian American Literature (cross offered - ENGLISH) 3 cr
ETHNSTDY 3750 American Literature of Ethnicity and Immigration (cross offered - ENGLISH) 3 cr

Students already fluent in a second language may select 6 credits from:
Upper-division literature courses in any language
ENGLISH 3030 The Teaching of Composition 3 cr
ENGLISH 4010 Teaching of World Languages: Theory and Practice 3 cr
ENGLISH 4730 Teaching English in Middle and Secondary Schools 3 cr

Language Arts Minor (26 credits)

Required literature courses
(5-6 credits, excluding ENGLISH 3930):
ENGLISH 3930 Literature for Young Adults 3 cr
ENGLISH 3030 The Teaching of Composition 3 cr
TEACHING 4420 Oral Language and Emergent Literacy 2 cr
ENGLISH 3940 Grammar in Context 3 cr

Required speech and/or theater courses (6 credits):
THEATER 1430 Oral Interpretation of Literature 3 cr
THEATER 1930 Voice and Diction 3 cr
THEATER 1230 Technical Theater I: Stagecraft 3 cr
THEATER 2730 Acting I: Elements of Acting 3 cr
SPEECH  2250  Communication and Leadership  3 cr
in Small Groups
SPEECH  3250  Interpersonal Communication  3 cr

Required writing course (3 credits):
ENGLISH  2120  Creative Writing  3 cr
ENGLISH  3120  Seminar in Creative Writing  3 cr
ENGLISH  3000  Technical Writing  3 cr
ENGLISH  3240  Advanced Writing  3 cr
ENGLISH  3360  Magazine Writing and Editing  3 cr

Writing Certificate (18 credits)
Required courses (18 credits, 12 from English):
ENGLISH  2120  Creative Writing  3 cr
ENGLISH  3000  Technical Writing  3 cr
ENGLISH  3120  Topics in Creative 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  3950  Writing for Performance  3 cr
ENGLISH  3990  Topics in Language, Literature or Writing
(Writing topics courses only)  3 cr
ENGLISH  4620  History of the English Language  3 cr
ENGLISH  4680  Writing Internship  3 cr
COMMNCTN 2030  Basic Newswriting and Reporting  3 cr
COMPUTER 3030  Advanced Microcomputer Applications  3 cr
COMMNCTN 2110  Applied Communication (repetable)  1 cr
COMMNCTN 3120  Applied Communication (repetable)  2 cr
COMMNCTN 3830  Editing for Print  3 cr

ENGLISH COURSES
ENGLISH 1130  3 credits  Freshman Composition
Rhetorical principles of writing – the sentence, the paragraph and
the essay – with practice in reading and writing prose.
Components: 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  3 credits  Freshman Composition
A continuation of English 1130 with particular emphasis on argumentation, research and documentation, and writing essays based
on inductive analysis.
Components: Lecture
GE: English
Prereqs/Coreqs: P: ENGLISH 1130 or test-out

ENGLISH 1330  3 credits  Introduction to Literature
A course designed to introduce the student to the understanding and enjoyment of literature through different literary genres-fiction, poetry and drama-and to acquaint the students with such literary terms as plot, theme, character, setting, form and interpretation. Does not count towards English major.
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 1430  3 credits  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  3 credits  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  3 credits  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 the course.
Components: Lecture
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2130  3 credits  English Literature: Beginnings Through the
Commonwealth
British literature through the Puritan Age, including such writers as
Chaucer, More, Spenser, Shakespeare, Donne and Milton.
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2230  3 credits  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 2nd course only
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230
ENGLISH 2250  3 credits

Introduction to Film
Introduction to Film develops students’ abilities to view films critically and deepen their understanding of the principal film genres through careful study of their historical contexts and cinematic techniques. The course focuses on the study of different genres and aesthetic schools of film, such as the French New Wave, German Expressionism, westerns, war films, musicals and film noir, in terms of how they present aesthetic detail, ideological points of view (such as issues of gender and race), as well as fulfill certain expectations of the spectator. After a thorough grounding in the conventions of traditional genre in cinema, the class will also focus on the ways in which it has been revised by filmmakers in more recent periods of cinematic history.

Components: Discussion, 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.

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.

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.

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 and Dante.

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 and Kincaid.

Components: Lecture
GE: Humanities, International Education
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2670  3 credits

World Literature III
Selected international literary works beginning from around 1700 and ending with the present. May include authors such as Shang-Jen, Racine, Akinara, Baudelaire, Kafka, Gordimer, Paz and Kincaid.

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.

Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 2780  3 credits

Survey of Women Writers
Survey of women writers in the English language with a focus on the themes, issues and concerns that tie women’s writing together and create a “women’s literary tradition.” British, American and international writers are included.

Components: Lecture
Cross Offering: 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.

Components: Lecture
Cross Offering: 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.

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.

Components: Lecture
Prereqs/Coreqs: P: ENGLISH 1130 and 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.

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.
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.
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.
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.
Components: Lecture
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3250  3 credits
Sociolinguistics
Introduction to problems of language, pedagogy and cultural political relevance for English education. Discusses linguistic theories informing language pedagogy, language acquisition, different models of language learning, American dialects, language and gender, language disorders and systems of literacy.
Components: Lecture
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
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3330  3 credits
English Drama
Drama in Great Britain (exclusive of Shakespeare) from its beginning to the present, including such figures as Marlowe, Jonson, Beaumont, Fletcher, Webster, Dryden, Congreve, Sheridan, Shaw, O’Casey, Eliot, Osborne and Pinter.
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3360  3 - 6 credits
Magazine Writing and Editing
An advanced writing and editing course concentrating on planning, creating and evaluating written copy for print and online magazines. Emphasizes both preparing the student's work for trade publications, and studying and practicing the processes of those publications.
Components: Lecture
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3410  3 credits
Chicano Literature
An examination of representative texts from various Chicana/Chicano writers, covering a range of genres and generations. There will be an emphasis on the relationship between literary production and historical context, in particular, the involvement of the writers in the social and political conflicts affecting the Chicano community.
Components: Lecture
Cross Offering: ETHNSTDY 3410
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3430  3 credits
Development of the American Novel
The evolution of the American novel from its beginnings to the present, including such authors as Hawthorne, Melville, James, Hemingway, Chopin, Faulkner and Morrison.
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3530  3 credits
Modern American Drama
American plays from World War I to the present, including such playwrights as O'Neill, Rice, Wilder, Hellman, Williams, Miller, Albee, Wilson, Hansberry, and Henley.
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3630  3 credits
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.
Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230
ENGLISH 3730  3 credits
Black Literature in America
A survey of African American literature beginning in the ante-
bellum period and continuing to the present, including oral forms
(folk tales and spirituals), novels, poetry, drama, autobiography,
and other selected non-fiction.
Components: Lecture
Cross Offering: ETHNSTDY 3730
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3740  3 credits
Asian American Literature
A survey of Asian-American literature beginning in the early 1900s
and continuing to present times. Includes works of fiction, autobiog-
raphy, poetry, and drama. Focuses on writers from different literary
and oral traditions including (but not limited to) Mandarin Chinese,
Japanese, Thai, Hmong, Vietnamese, and Indian, and examines the
impact of family, culture, and gender both within these traditions
and between a particular tradition and U.S. popular culture.
Components: Lecture
Cross Offering: ETHNSTDY 3740
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3750  3 credits
American Literature of Ethnicity and Immigration
An examination of literature from a variety of U.S. “racial” and
“ethnic” groups, including African-, Italian-, Mexican-, Jewish-,
Asian-, and Native-American. Emphasis will be placed on the
meanings of “race” and “ethnicity,” the effects of immigration and
the impact of gender in this literature.
Components: Lecture
Cross Offering: ETHNSTDY 3750
GE: Ethnic Studies, Humanities
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3760  3 credits
Wisconsin Indian Literature
An exploration of Wisconsin Indian literatures from the oral tradi-
tion to the present; texts studied will include epics, legends, poetry,
novels and selected non-fiction, including such writers as Mountain
Wolf Woman and Denise Sweet.
Components: Lecture
Cross Offering: 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.
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.
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 Ameri-
can. Content and focus may vary in different semesters and may
include such writers as Dostoyevsky, Flaubert, Mann, Kafka, Cor-
tazar, Achebe, Lagerkvist, Kawabata and Dinesen.
Components: Lecture
GE: Humanities, International Education
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3890  3 credits
Film and Literature
Film adaptations of representative fictional texts, such as historical
romances, gothic novels, short stories 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
tory of film will also be introduced. The ultimate goal of the
course will be to arrive at a method of critically viewing films and
of critically reading literature, through an examination of the same
story as it is told through different media.
Components: 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.
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)
gramar, including the parts of speech, phrases, clauses, sentence
patterns and their combinations into a variety of sentence types and
paragraph patterns. Practical application of grammatical concepts
in a writing- and reading-intensive environment, with attention to
the logic of punctuation and conventional mechanics.
Components: Lecture
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 3990  3 credits
Topics in Language, Literature, or Writing
A critical examination of one area of language, literature or writing.
The themes vary; therefore this course may be taken more than
once for credit, provided the content is different each time.
Components: Lecture
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 workplace.
Components: Lecture
Cross Offering: 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.
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.
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 methods for studying this literature. This course will introduce students to a number of important literary genres, including the pastoral, the elegy, the sonnet, Ovidian poetry, travel literature and the epic; the intellectual thought underlying much of this work (e.g. issues of the Reformation, Neo-Platonism, Humanism, Machiavellianism); and the influence of classical and continental literature.
Components: 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.
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.
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.
Components: Lecture
Cross Offering: WOMSTD 4500
GE: Gender Studies, Humanities, International Education
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4530 3 credits
Literature and the Critic
An examination and evaluation of theories of literature and the role of the artist in society from Plato to the present, including such writers as Plato, Aristotle, Longinus, Sidney, Lessing, Schlegel, Arnold, Sainte-Beuve, Eliot, Richards, Frye and Bush.
Components: Lecture
GE: Humanities
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.
Components: Lecture
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

ENGLISH 4670 3 credits
Methods of Teaching English As a Second Language
Examines the characteristics of second or other language acquisition and how they influence the effectiveness of different methods of teaching English as a Second Language. Includes teacher/learner characteristics and strategies, teaching varieties of language, review of methodologies, communicative competence and syllabus design.
Components: Lecture
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 are to be stipulated in a statement of agreement between student and department.
Components: Field Studies
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230
ENGLISH 4730  3 credits
Teaching of English in Middle and Secondary Schools
The objectives, methods and materials dealing with the teaching of middle or high school English. Does not count toward the English major or minor.
Components: Lecture
Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230 and junior standing

ENGLISH 4740  3 credits
Practicum in Teaching English As a Second Language
Observing teachers and students in TESOL settings, participating in TESOL teaching and tutoring activities including lesson preparation and evaluating the teaching/learning experiences.
Components: Lecture
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

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Professor:
Raymond Spoto (Spanish)

Associate Professors:
Laura Anderson (French/Spanish)
Mark Evenson (Spanish)
Patrick Hagen (German)

Assistant Professor:
Chris Schulenburg

Lecturers:
Rebecca Gottlieb
Edina Haslauer

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 Department of 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, socio-economical, 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 Department of Public Instruction 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.

About the Foreign Languages Program and Majors
The foreign language program offers majors in German and Spanish, along with minors in French, German and Spanish. Students who major in foreign languages find career opportunities in many areas such as international business, marketing, civil-service work, diplomacy and law enforcement. Students who wish to teach French, German or Spanish must be admitted to the School of Education, meet all of the requirements for teacher certification and also take TEACHING 4060 Teaching World Languages: Theory and Practice (credits do not count toward major or minor).

Minor studies in French, German and Spanish are designed for students interested in combining a minor in a foreign language with other areas of study for the purpose of enhancing communication skills and career opportunities. Likewise, apart from the intellectual development that results from the study of the French, German or Spanish language, its literature and its civilization, students may also find professional employment in international business, marketing, civil service and teaching.

All students intending to become licensed teachers must satisfy the requirements outlined in the section, “Teacher Licensure,” listed under School of Education in this catalog.

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 4 and 16 retroactive credits for the course or courses skipped at the 1000 or 2000 levels.

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 9 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 Study 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 8 or 9 credits in our Study 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 2-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 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 8 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 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 2 credits. See the French instructor for details. French minors must have a GPA of no lower than a 2.50 in French courses.

Required:
- Non-Teaching Minors: 8 cr of 3000 and above
- Teaching Minors: 12 cr of 3000 and above

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

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

Required School of Education course:
- TEACHING 4060 Teaching World Languages 3 cr (credit does not count toward minor)

German Major (36 credits)
The major requires a total of 36 credits with a minimum of 20 credits selected from courses numbered 3000 or higher. GERMAN 4220 Phonetics and GERMAN 3530 German Civilization are required. Students who major in German must have a grade-point average of no lower than a 2.50 in the German courses they take, and meet the study abroad requirement by completing 8-9 credits in our Study 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 9 credits of English literature and philosophy with no more than two courses from each area (2000 level or above).

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. TEACHING 4060 Teaching World Languages is an additional requirement of the School of Education (credits do not count toward minor). Students who major in German must have a grade-point average of no lower than a 2.50 in the language courses they take, and meet the study abroad requirement by completing 8-9 credits in our Study Abroad Program at the 3000-4000 level. Similar or comparable cultural experiences could also be accepted. In addition, German Education majors completing a Bachelor of Science degree are required to take either PHILSPHY 1130 Introduction to Philosophy or PHILSPHY 2530 Ethics.

German Minor (24 credits)
The minor requires a total of 24 credits with a minimum of 8 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 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 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 2.50 in the language courses they take, and meet the study abroad requirement by completing 8-9 credits in our Study Abroad Program at the 3000-4000 level. Similar or comparable cultural experiences could also be accepted.

In addition, German Education majors completing a Bachelor of Science degree are required to take either PHILSPHY 1130 Introduction to Philosophy or PHILSPHY 2530 Ethics.

Courses:
- GERMAN 1240 Elementary German 4 cr
- GERMAN 1340 Elementary German 4 cr
- GERMAN 2240 Intermediate German 4 cr
- GERMAN 2340 Intermediate German 4 cr
- GERMAN 3000 Foreign Language Travel 1-4 cr

(Non-Teaching Minors must take at least 2 cr for the purpose of immersion)
- GERMAN 3220 German Conversation and Composition I 2 cr
- GERMAN 3320 German Conversation and Composition II 2 cr
- GERMAN 3330 German Literature of the 20th Century 3 cr
- GERMAN 3430 German Literature of the 19th Century 3 cr
- GERMAN 3530 German Civilization 3 cr
- GERMAN 4220 Phonetics 2 cr
- GERMAN 4250 Supervised Independent Study 1-4 cr

Required School of Education course:
- TEACHING 4060 Teaching World Languages 3 cr (credit does not count toward major or minor)
SPANISH

Spanish Major (36 credits)
The major requires a total of 36 credits with a minimum of 20 credits selected from courses numbered 3000 or higher, including courses in SPANISH 4820 Phonetics and SPANISH 3830 Spanish 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 study abroad requirement by completing 8-9 credits in our Study 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 9 credits of English literature and philosophy with no more than 2 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 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 2.50 in the Spanish courses they take, and meet the study abroad requirement by completing 8-9 credits in our Study Abroad Program at the 3000-4000 level. Similar or comparable cultural experiences could also be accepted. In addition, Spanish Education majors completing a Bachelor of Science Degree are required to take either PHILSPHY 1130 Introduction to Philosophy or PHILSPHY 2530 Ethics.

Spanish Minor (24 credits)
The minor requires a total of 24 credits with a minimum of 8 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 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 2 credits. See the Spanish instructor for details. Spanish minors must have a GPA of no lower than a 2.50 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
SPANISH 3820 Spanish Conversation and Composition I 2 cr

Required School of Education course:
TEACHING 4060 Teaching World Languages 3 cr (credit does not count toward major or minor)

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
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 and department consent

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

GERMAN COURSES

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 1 to 4 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
  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

GERMAN 4250  1 - 4 credits
**Supervised Independent Study**
For advanced students who wish to acquaint themselves further with German literature, civilization or linguistics; thesis type reports and examination; by special permission, the number of credits will be determined at the beginning of the course.
- **Components:** Independent Study
- **Prereqs/Coreqs:** P: GERMAN 2340 or equivalent and department consent

**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
- **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 and instructor consent

SPANISH 4930  3 credits
Introduction to Spanish Literature
Continuation of Spanish 4830.

Components: Lecture
GE: Humanities
Prereqs/Coreqs: P: SPANISH 2940 or equivalent
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, 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 Code</th>
<th>Course Title</th>
<th>Credits</th>
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<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>
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</tr>
<tr>
<td>PHLSPHY 2230</td>
<td>Contemporary Worldviews</td>
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<td>Philosophy in the Modern World</td>
<td>3 cr</td>
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<tr>
<td>PHLSPHY 2530</td>
<td>Ethics</td>
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<tr>
<td>PHLSPHY 2630</td>
<td>Logic</td>
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<tr>
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<td>Philosophy of History</td>
<td>3 cr</td>
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<tr>
<td>PHLSPHY 3330</td>
<td>Ontology and Ethics</td>
<td>3 cr</td>
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<tr>
<td>PHLSPHY 3430</td>
<td>Social Philosophy</td>
<td>3 cr</td>
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<td>PHLSPHY 3530</td>
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<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</td>
<td>1-3 cr</td>
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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.

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<tr>
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<tbody>
<tr>
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<tr>
<td>or</td>
<td>PHLSPHY 2230 Contemporary Worldviews</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>PHLSPHY 2330 Origins of Western Philosophy</td>
<td>3 cr</td>
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</table>

PHLSPHY 2430 Philosophy in the Modern World 3 cr
Two 3000-level seminars and one 4000-level seminar

PHILOSOPHY COURSES

<table>
<thead>
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<td>Philosophy of History</td>
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<td>Philosophy of Religion</td>
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<tr>
<td>PHLSPHY 3330</td>
<td>Ontology and Ethics</td>
<td>3 cr</td>
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<tr>
<td>PHLSPHY 3430</td>
<td>Social Philosophy</td>
<td>3 cr</td>
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<tr>
<td>PHLSPHY 3530</td>
<td>Philosophy's Feminist Future: From Powerism to Personalism</td>
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PHLSPHY 2430 Philosophy in the Modern World 3 cr
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PHILOSOPHY COURSES

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<td>PHLSPHY 2430</td>
<td>Philosophy in the Modern World</td>
<td>3 cr</td>
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</tbody>
</table>

PHILOSOPHY 2130 Peace Studies: Issues, Ideas and Morality of Nuclear War
A critical study of the literature concerning nuclear war. Technical, strategic and philosophic aspects of nuclear war will be given careful analysis, interpretation and discussion in lecture/readings/discussion format. (Spring)

Components: Lecture
GE: Humanities

PHLSPHY 2230 3 credits
Contemporary Worldviews
Major modern philosophical-religious worldviews: 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 Perspectives-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 Perspectives-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. (Fall, Spring)

Components: Lecture
GE: Humanities
Prereqs/Coreqs: Sophomore standing
PHLSPHY 2630 3 credits
Logic
An introductory study of the structure of reasoning and argumentation with practical applications in the socio-political sphere, science and philosophy. (Every other Spring)
  Components: Lecture

PHLSPHY 2730 3 credits
Introduction to the Old Testament
An introduction to the Old Testament including historical background, an introduction to critical analysis and the necessary tools of interpretation and a survey of the major themes, traditions and thought content of the Old Testament. (Fall)
  Components: Lecture
  GE: Historical Perspective-2nd course only or Humanities

PHLSPHY 2830 3 credits
Introduction to the New Testament
An introduction to the New Testament including historical background, introduction to the problems and methods of interpretation and a survey of major themes, traditions and thought content of the New Testament. (Spring)
  Components: Lecture
  GE: Humanities

PHLSPHY 2930 3 credits
Major Traditions in Eastern Religions
An introductory study of Hinduism, Buddhism, Zoroastrianism, Islam, Confucianism, Taoism, Shinto and Zen, with outlines of their histories, developments of their doctrines and consideration of their contribution to the religious thought of the world. (Every other Fall)
  Components: Lecture
  GE: Humanities, International Education

PHLSPHY 2940 3 credits
Special Topics in Philosophy
A critical examination of a major theme, movement, period, philosopher or philosophical issue. This course is designed for students from any field or major, and does not presuppose an advanced stage of the study of philosophy. There are no prerequisites for this course. (Occasionally)
  Components: Lecture
  GE: Humanities

PHLSPHY 3130 3 credits
Philosophy of History
An examination of principal theories regarding what meaning may or may not be discovered in history. (Every other Spring)
  Components: Lecture
  GE: Humanities
  Prereqs/Coreqs: P: 3 credits in philosophy or consent of instructor

PHLSPHY 3230 3 credits
Philosophy of Religion
An examination of major interpretations of what religion is and the significance for it of concepts regarding faith and reason, God, the invisible world, evil and the nature and destiny of persons. (Every other Fall)
  Components: Lecture
  GE: Humanities
  Prereqs/Coreqs: P: 3 credits in philosophy or consent of instructor

PHLSPHY 3330 3 credits
Ontology and Ethics
The ontological foundation of ethics in the thought of some major moral philosophers. (Every other Spring)
  Components: Lecture
  GE: Humanities
  Prereqs/Coreqs: P: 3 credits in philosophy or consent of instructor

PHLSPHY 3530 3 credits
Philosophy’s Feminist Future: From Powerism to Personalism
With a focus on major representatives of philosophical thought, this course will examine ideas 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 Offering: WOMSTD 3530
  GE: Gender Studies, Humanities
  Prereqs/Coreqs: P: 3 credits in philosophy or WOMSTD 1130 or consent of instructor

PHLSPHY 3630 3 credits
Philosophy of Law
A critical study of major concepts of law with particular emphasis on how the various notions of law are governed by fundamental views concerning the nature of reality and the individual person. (Every other Spring)
  Components: Lecture
  GE: Humanities
  Prereqs/Coreqs: P: 3 credits in philosophy, CRIMLJUS 1130 or consent of instructor

PHLSPHY 4430 3 credits
Seminar in Philosophy
A critical examination of a major theme, movement, period or philosopher in the history of philosophy. This is a seminar designed for students who are majors or minors and who are at an advanced stage of the undergraduate study of philosophy. (Once in a two-year cycle)
  Components: Seminar
  GE: Humanities
  Prereqs/Coreqs: P: six credits in philosophy or consent of instructor

PHLSPHY 4660 1-8 credits
Cooperative Field Experience
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and department. (Occasionally)
  Components: Field Studies

PHLSPHY 4720 1-3 credits
Individual Research in Philosophy
Advanced work by the individual students. (Occasionally)
  Components: Independent Study
  Prereqs/Coreqs: P: A philosophy major or minor
Student Learning Outcomes for the Psychology Major

The department adopts as objectives the ten guidelines developed by the American Psychological Association Task Force on Undergraduate Major Competencies.

Student learning outcomes specific to the discipline are:
1. Graduates will demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
2. Graduates will understand and apply basic research methods in psychology, including research design, data analysis and interpretation.
3. Graduates will respect and use critical and creative thinking, skeptical inquiry and, when possible, the scientific approach to solve 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. In addition, there are a significant number of students who 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 course work 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 applied business emphasis, or to pursue a career-related minor or second major.

Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>PSYCHLGY 1130</td>
<td>General Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 2230</td>
<td>Introduction to Experimental Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3960</td>
<td>Behavioral Research I</td>
<td>2 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3970</td>
<td>Behavioral Research II</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4330</td>
<td>History and Systems of Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>MATH 1830</td>
<td>Elementary Statistics*</td>
<td>3 cr</td>
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</tbody>
</table>

*MATH 1830 Elementary Statistics does not count toward the 36 credits for the major.

Elective Category 1: Applied Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>PSYCHLGY 3010</td>
<td>Industrial Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3130</td>
<td>Child Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3230</td>
<td>Adolescent Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3990</td>
<td>Psychology of Adulthood and Aging</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4830</td>
<td>Psychology and the Law</td>
<td>3 cr</td>
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</table>

Elective Category 2: Experimental-Content Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>PSYCHLGY 3000</td>
<td>Cognitive Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3030</td>
<td>Learning and Behavior</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3430</td>
<td>Physiological Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3530</td>
<td>Social Psychology</td>
<td>3 cr</td>
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</table>

Elective Category 3: Clinical Courses (6 credits)

<table>
<thead>
<tr>
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<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PSYCHLGY 3330</td>
<td>Psychological Measurement</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4030</td>
<td>Theories of Personality</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4430</td>
<td>Abnormal Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4930</td>
<td>Techniques of Counseling and Psychotherapy</td>
<td>3 cr</td>
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</tbody>
</table>

Electives (4 credits):

(Select additional courses from the above elective categories or from the following courses.)

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>PSYCHLGY 2010</td>
<td>Careers in Counseling and Human Services</td>
<td>1 cr</td>
</tr>
<tr>
<td>PSYCHLGY 2030</td>
<td>Psychology of Personal Adjustment</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 2530</td>
<td>Psychology of Women</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3630</td>
<td>Psychology of Human Sexuality</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 3830</td>
<td>Psychology and Religion</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4020</td>
<td>Contemporary Issues in Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4130</td>
<td>Interpersonal Psychology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4660</td>
<td>Cooperative Field Experience*</td>
<td>1-8 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4730</td>
<td>Independent Study in Psychology</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>PSYCHLGY/ CRIMLJUS 4840</td>
<td>Psychopharmacology for AODA</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4940</td>
<td>Advanced Techniques of Counseling and Psychotherapy</td>
<td>3 cr</td>
</tr>
<tr>
<td>PSYCHLGY 4950</td>
<td>Human Service Work with Groups and Organizations</td>
<td>3 cr</td>
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</table>

* Four credits of Cooperative Field Experience may count toward the 36 credits required for the major; up to 8 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 Freshman Composition 1130 and 1230 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. 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 UWP:

1. Completion of General Psychology 1130 with a grade of “C” or better.
2. An overall GPA 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.

Required courses:

PSYCHLGY 4840 Psychopharmacology 3 cr
CRIMLJUS 4430 Abnormal Psychology 3 cr
PSYCHLGY 4930 Techniques of Counseling and Psychotherapy 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 or above

The course work in this emphasis is recommended by the Psychology Department to students interested in pursuing a career in the human service professions or in applying for the State of Wisconsin Social Work Training Certificate. Obtaining this certification may require course work or training beyond that provided at UW-Platteville. Please check regularly with your advisor regarding possible revisions.

Applied Business 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.

Required courses:

BUSADMIN 2330 Leadership and Management 3 cr
BUSADMIN 2630 Introduction to Marketing 3 cr
BUSADMIN 3030 Human Resource Management 3 cr
BUSADMIN 3700 Marketing Research 3 cr
PSYCHLGY 3010 Industrial Psychology 3 cr
PSYCHLGY 4660 Cooperative Field Experience 3 cr or above

A technical writing course (ENGLISH 3000 or COMMNCTN 3010) and BUSADMIN 3630 Advertising are also strongly recommended.

The course work in this emphasis is recommended by the Psychology Department to students interested in pursuing a career in business fields related to psychology.

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.
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.
  Components: Lecture
  GE: Social Science

PSYCHLGY 2010  1 credit
Careers in Counseling and Human Services
Career fields open to individuals with a bachelor's degree in psychology are explored through field trips, invited speakers and individual research. While the focus is on counseling and human services positions, applications in business settings are also included.
  Components: Lecture

PSYCHLGY 2030  3 credits
Psychology of Personal Adjustment
Surveys the varieties of psychological adjustment from healthy to abnormal coping styles. Includes theoretical underpinnings of personality, the influence of socialization, the issues involved in stress and stress management techniques and practical applications of psychological principles to everyday living.
  Components: Lecture
  GE: Social Science
  Prereqs/Coreqs: P: PSYCHLGY 1130

PSYCHLGY 2230  3 credits
Introduction to Experimental Psychology
Commitment to a scientific approach to understanding behavior is what unifies psychology as a profession. This course is designed to introduce students to the basic research methodology of experimental psychology. Course topics include the process of conducting and evaluating research, ethical issues and the American Psychological Association conventions for the presentation and publication of scholarly materials.
  Components: Lecture
  Prereqs/Coreqs: P: PSYCHLGY 1130; completion of MATH 15 Intermediate Algebra; or MATH 1530 College Algebra; or a mathematics proficiency level of 15 or above.

PSYCHLGY 2530  3 credits
Psychology of Women
Explores the shaping of women's behaviors and self-concepts by biological and social influences. Also covers the empirical support for and against gender-related differences in behavior and thought patterns.
  Components: Lecture
  Cross Offering: WOMSTD 2530
  GE: Gender Studies, Social Science
  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.
  Components: Lecture
  GE: Social Science
  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 workplace. 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 workforce.
  Components: Lecture
  GE: Social Science
  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.
  Components: Lecture
  GE: Social Science
  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.
  Components: Lecture
  GE: Social Science
  Prereqs/Coreqs: P: PSYCHLGY 1130 and sophomore standing

PSYCHLGY 3230  3 credits
Adolescent Psychology
The physical, emotional, social and intellectual characteristics and problems of the adolescent.
  Components: Lecture
  GE: Social Science
  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.
  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.

Components: Lecture
Prereqs/Coreqs: P: PSYCHLGY 2230 (for biology majors - P: BIOLOGY 1450 and PSYCHLGY 1130)

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.

Components: Lecture
GE: Social Science
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.

Components: Lecture
GE: Social Science
Prereqs/Coreqs: Sophomore standing

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.

Components: Lecture
GE: Social Science
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.

Components: Discussion, Lecture
Prereqs/Coreqs: P: PSYCHLGY 2230 with a “C” or better and MATH 1830 and Psychology major or consent of department chair

PSYCHLGY 3970 3 credits

Behavioral Research II
Behavioral Research II should be taken in the semester immediately following Behavioral Research I (PSYCHLGY 3960). The research project designed in PSYCHLGY 3960 will be implemented. Students will complete data collection and analysis, prepare a manuscript in APA format and present their research. Competencies with the Statistical Package for the Social Sciences (SPSS) and with the critical assessment of research will be developed.

Components: Lecture
Prereqs/Coreqs: P: MATH 1830 and PSYCHLGY 3960 with a “C” or better, a Psychology major or consent of department chair

PSYCHLGY 3990 3 credits

Psychology of Adulthood and Aging
The purpose of this course is to provide a general introduction to the multi-disciplinary field of gerontology and examine the biological, social and psychological dimensions of adult development.
While the primary focus is on an examination of the theoretical and empirical research on the aging process, students will also have the opportunity to be exposed to aging from an experiential perspective.

Components: Lecture
GE: Social Science
Prereqs/Coreqs: P: PSYCHLGY 1130

PSYCHLGY 4020 1 - 3 credits

Contemporary Issues in Psychology
This course provides students an opportunity to explore the current issues of academic and applied psychology through research and discussion. May be taken more than once if topic is different.

Components: Lecture
GE: Social Science
Prereqs/Coreqs: P: PSYCHLGY 1130 and other prerequisites as appropriate to the topic

PSYCHLGY 4030 3 credits

Theories of Personality
The views of leading personality theorists regarding such central issues as the organization of normal personality, its development and dynamics, socialization, description, assessment and understanding.

Components: Lecture
GE: Social Science
Prereqs/Coreqs: P: PSYCHLGY 1130 and junior standing

PSYCHLGY 4330 3 credits

History and Systems of Psychology
This course is designed to provide a detailed account of the history of psychology. It encompasses both the philosophical antecedents of modern psychology as well as the influential pioneers in the field of psychology.

Components: Lecture
GE: Social Science
Prereqs/Coreqs: P: PSYCHLGY 1130 and junior standing

PSYCHLGY 4430 3 credits

Abnormal Psychology
Psychology of abnormal behavior; biological and social factors in the genesis of behavioral, emotional and personality disorders. Brain disorders, psychoses and substance abuse are also presented and discussed.

Components: Lecture
GE: Social Science
Prereqs/Coreqs: P: PSYCHLGY 1130 and junior standing
PSYCHLGY 4660  1 - 8 credits

**Cooperative Field Experience**
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and department. Minimum prerequisites for enrollment in Cooperative Field Experience include but are not limited to the following: 1) Completion of at least 60 credits with a minimum GPA of 2.50 overall and a minimum GPA of 3.00 for courses completed within the Psychology Department. 2) Completion of 15 credits of appropriate course work in psychology. 3) Completion of all general requirements in English, speech and mathematics. 4) Student must obtain recommendations from 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.

**Components:** Field Studies
**Prereqs/Coreqs:** P: Junior standing

PSYCHLGY 4730  1 - 3 credits

**Individual Study in Psychology**

**Components:** Independent Study
**Prereqs/Coreqs:** P: Senior standing; 20 credits in Psychology; 2.50 minimum GPA; 3.00 GPA in Psychology; completion of all general university requirements in English, Speech and Math

PSYCHLGY 4830  3 credits

**Psychology and the Law**
Modern psychological principles in law enforcement, correction and treatment, and the delinquent and criminal personality with a survey of predictive instruments and special problems.

**Components:** Lecture
**GE:** Social Science
**Prereqs/Coreqs:** P: PSYCHLGY 1130 and junior standing

PSYCHLGY 4840  3 credits

**Psychopharmacology for AODA Counselors**
The effects of nutrients, additives and psychoactive drugs on criminal behavior; the process by which behavior is affected by these substances. It fulfills part of the knowledge base for AODA counselor certification.

**Components:** Lecture
**Cross Offering:** CRIMJUS 4840
**Prereqs/Coreqs:** P: CRIMJUS 1130, PSYCHLGY 1130 or SOCIOLGY 1030 and junior standing; a Biology course is also recommended

PSYCHLGY 4930  3 credits

**Techniques of Counseling and Psychotherapy**
Survey of procedures used by psychologists, including counseling, psychotherapy, and limited psychodiagnosics. Practice procedures and applications are also emphasized.

**Components:** Lecture
**Prereqs/Coreqs:** P: 9 credits in psychology and junior standing

PSYCHLGY 4940  3 credits

**Advanced Techniques of Counseling and Psychotherapy**
This course provides students opportunities to expand, implement and refine counseling skills. It affords opportunities for students to learn more advanced techniques, as well as to practice basic counseling skills. The course covers processes of counseling, ethical considerations, theoretical applications and special populations.

**Components:** Lecture
**Prereqs/Coreqs:** P: PSYCHLGY 4930, COUNSLED 7020 or consent of instructor

PSYCHLGY 4950  3 credits

**Human Service Work with Groups and Organizations**
Expands upon the approaches learned in PSYCHLGY 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.

**Components:** Lecture
**Prereqs/Coreqs:** P: PSYCHLGY 4930, COUNSLED 7020 or consent of instructor
MAJORS

Economics
- Comprehensive Business and Economics
- Computer Science Concentration

Business and Economics with Vocational Business Studies Concentration

Geography

History

International Studies Comprehensive

Political Science

Social Sciences Comprehensive
- Economics Emphasis
- Geography Emphasis
- History Emphasis
- Psychology Emphasis

MINORS

Economics
- Geography
- Geology
- Environmental Science
- History
- International Studies
- Political Science
- Social Sciences
- Sociology

About the Department and Majors

The 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

About the Economics Program and Major

The economics program at UW-Platteville is designed to bridge the gap between liberal and vocational education. In fulfilling requirements for the economics 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.
The department offers a 36-credit major and a 24-credit minor in economics, a 60-credit comprehensive business and economics major (with concentrations available in computer science or in vocational business studies, if desired) and an economics concentration in the social science teaching major. For more information about the teaching major, contact the director of the School of Education.

Students in all economics programs are encouraged to take advantage of foreign study opportunities, including the cooperative programs with the University of the Americas in Puebla, Mexico; St. Marys College in London, England and the Spanish-American Institute in Seville, Spain.

### General Requirements

#### Bachelor of Science Degree

Total for Graduation.......................... 120 credits  
General Education.................................. 44-58 credits  
Major Studies .................................... 36 or 60 credits

### Comprehensive Business and Economics (60 credits)

**Required courses:**

- BUSADMIN 2330 Leadership and Management 3 cr
- BUSADMIN 2630 Introduction to Marketing 3 cr
- BUSADMIN 3620 Financial Management 3 cr
- ECONOMIC 2130 Principles of Macroeconomics 3 cr
- ECONOMIC 2230 Principles of Microeconomics 3 cr
- ECONOMIC 2410 Interpretation of Business and Economic Data 3 cr
- ECONOMIC 3330 Intermediate Microeconomics 3 cr
- ECONOMIC 3340 Intermediate Macroeconomics 3 cr
- ACCTING 2010 Financial Accounting 3 cr
- ACCTING 2020 Management Accounting 3 cr
- ACCTING 3000 Accounting Issues for Managers 3 cr
- ECONOMIC 4930 Senior Seminar 3 cr

Students majoring in business can get a double major in business and in comprehensive business and economics by completing three courses in addition to those required for the business major.

Note: The balance of the 60-credit program consists of elective courses chosen from business, economics and selected computer science courses. See the chairperson of the Department of Economics for further information.

### Comprehensive Business and Economics with Computer Science Concentration

Available by taking the following computer science requirements in addition to the above 60-credit program.

**Required courses:**

- COMPUTER 1430 Introduction to Computer Science with C++ 3 cr
- COMPUTER 2230 Computer Program for Business Systems 3 cr
- COMPUTER 3130 System Analysis and Design 3 cr

For a stronger concentration in computer science, a student should take the required courses above plus one of the following options:

**Option 1:** COMPUTER 3530, COMPUTER 3630 or COMPUTER 3930 and COMPUTER 4230

**Option 2:** COMPUTER 3630 and COMPUTER 3640.

### Business and Economics with Vocational Business Studies Concentration

Students from vocational-technical adult education schools and from unaccredited institutions who have done course work in a business program may transfer to UW-Platteville. They can combine their previous work with liberal and professional studies at this university to earn the baccalaureate degree. To graduate with a Bachelor of Science degree in business and economics, students must (1) complete all general university requirements, (2) complete the 60-credit program specified above for the comprehensive major and (3) earn in residence a minimum of 34 credits in the major area and 31 credits in liberal arts courses. The student, in consultation with the advisor, may pursue in-depth work in accounting, business administration or economics.

The vocational-technical background of each student will be evaluated on a course-by-course basis. Waivers and credits will be granted by the appropriate faculty, based upon transcripts, tests or other criteria. As a general policy, credits will not be granted for courses numbered 3000 and above, or for grades below “C.” However, up to 24 credits of the business and economics core and up to 15 credits of the general university requirements may be accepted.

### Comprehensive Social Sciences with a Concentration in Economics-Economics Education (Teaching)

The College of Liberal Arts and Education offers a major for certification of social science teachers with an area concentration in economics. Students with a major in comprehensive social sciences with a concentration in economics-economics education will receive a Bachelor of Arts degree.

For more information, see the Social Sciences Comprehensive major.

### Economics Minor (24 credits)

- ECONOMIC 2130 Principles of Macroeconomics 3 cr
- ECONOMIC 2230 Principles of Microeconomics 3 cr
- ECONOMIC 3330 Intermediate Microeconomics 3 cr
- ECONOMIC 3340 Intermediate Macroeconomics 3 cr
- Electives in Economics 12 cr

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For a stronger concentration in computer science, a student should take the required courses above plus one of the following options:

**Option 1:** COMPUTER 3530, COMPUTER 3630 or COMPUTER 3930 and COMPUTER 4230

**Option 2:** COMPUTER 3630 and COMPUTER 3640.

### Business and Economics with Vocational Business Studies Concentration

Students from vocational-technical adult education schools and from unaccredited institutions who have done course work in a business program may transfer to UW-Platteville. They can combine their previous work with liberal and professional studies at this university to earn the baccalaureate degree. To graduate with a Bachelor of Science degree in business and economics, students must (1) complete all general university requirements, (2) complete the 60-credit program specified above for the comprehensive major and (3) earn in residence a minimum of 34 credits in the major area and 31 credits in liberal arts courses. The student, in consultation with the advisor, may pursue in-depth work in accounting, business administration or economics.

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- ECONOMIC 2230 Principles of Microeconomics 3 cr
- ECONOMIC 3330 Intermediate Microeconomics 3 cr
- ECONOMIC 3340 Intermediate Macroeconomics 3 cr
- Electives in Economics 12 cr

...

For a stronger concentration in computer science, a student should take the required courses above plus one of the following options:

**Option 1:** COMPUTER 3530, COMPUTER 3630 or COMPUTER 3930 and COMPUTER 4230

**Option 2:** COMPUTER 3630 and COMPUTER 3640.
Geography

http://www.uwplatt.edu/geography

Department Chair: Paula M. Nelson
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Professor:
Richard A. Waugh

Associate Professors:
H. Todd Stradford
Mari A. Vice
J. Elmo Rawling

Assistant Professors:
Jennifer Mandel
Rhea Presiado

Lecturers:
Carol Bendorf
Gabriel Neely
Richard Becker

About the Geography Program and Major

The two disciplines of geography and geology are included in the Department of Social Sciences. Major and minor programs in geography are available for those seeking jobs with government agencies or the private sector or wishing to do graduate study in geography. The department also offers a geology minor, designed primarily to provide reclamation and engineering students with a sound basis in geology essential for professional work, and a minor in environmental science for those who are preparing for a career working in nature.

Among the sciences, Geography is distinct in subject and methods. Its subject is the terrestrial and oceanic Earth and the study of interactions of physical processes, plant and animal life, and peoples, societies and cultures that produce the variety of past and present environments.

Geography’s distinctive methods of study are spatial, a large scale geometry to investigate how the location, organization, distribution, movement and overall pattern of phenomenon explain origin and process, and disclose principles and laws. 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. Geographers explore the linkages between key patterns and processes changing the world today and in the past. Given this, geographers are ideally suited to address some of the world’s most pressing problems, such as understanding and addressing global climate change; defining and measuring the impacts of social policy; seeking common ground in debates over land use, environmental justice; and sustainable development; engaging in environmental mediation; analyzing and stimulating regional, national and international economic development; and assessing the close interactions between nature, culture, society and human health. These urgent issues are complex and not “fixable” through one-dimensional solutions. Geography’s contribution to these varied challenges and their solutions is spatial analysis, the study of where things are, how and why they got there and what may affect that location in the future. Spatial analysis is a powerful tool that can serve as a common denominator in thinking about complex social, political, economic, environmental and cultural controversies.

The Geography and Geology programs at UWP are housed within the Social Sciences Department. We offer a major and minor in Geography as well as a minor in Geology. Because a major in Geography offers broad training in physical, human, regional, natural and societal, and geographic techniques content upon graduation, geographers have diverse knowledge applicable to a wide range of careers including protecting and managing natural resources, planning for workable and enjoyable cities, utilizing computer technologies, working toward clean and healthy environments and helping people in developing countries improve their lives. The largest employers of geographers with bachelor’s degrees are federal, state and local agencies as well as educational systems. Geography offers important skills for careers in planning, real-estate, market analysis, economic development, travel-tourism, teaching, criminal justice, agriculture, environmental studies, natural resource management and international affairs. Private sector employment for geographers with spatial data analysis, cartography and Geographic Information Systems (GIS) skills is one of the most important emerging international fields.

To prepare for these varied opportunities, geography students explore the human and natural world through classroom, laboratory and field experiences, individual research, internships with local, state and national agencies, participation in student-organized activities, attendance at professional meetings and the use of modern computer equipment, software and databases. The geography student is creative, enjoys challenges, can learn through observation and research and enjoys the satisfaction of improving global conditions.

Mission Statement

The goal of this major is to train students to:

1. Recognize the unique subject and methods of geography and be able to use geographical concepts in 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
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. understand how spatial complexity evolves
4. develop a perspective that allows them to understand spatial variation and diversity at global, regional and local scales
5. be able to address, solve, manage and communicate spatial problems using geographic technologies
6. be able to use geographical concepts in contributing to the solution of societal and environmental problems
7. have the ability to synthesize and communicate a broad range of geographic knowledge
8. have the skills to read, interpret, use and make maps
9. have the skills to effectively select equipment and tools, apply technology to specific tasks and maintain and troubleshoot technologies
10. understand the importance of personal, social and civic responsibility
11. develop individual responsibility, self esteem and a curiosity for learning
12. gain interpersonal skills to work in teams, teach others, lead, negotiate and work with others from culturally diverse backgrounds
13. acquire and evaluate data, organize and maintain data, and use computers to process information
14. be able to distinguish between location and the meaning of place
15. have the ability to conduct, process, prepare and present empirical geographic research at a fundamental level
16. 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 .................................... 36 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 (36 credits)

Required courses (26 credits):
GEOGRPHY 1140 Geomorphology 4 cr
GEOGRPHY 1230 Cultural Geography 3 cr
GEOGRPHY 1240 Weather and Climate 4 cr
GEOGRPHY 1330 World Regional Geography 3 cr
GEOGRPHY 2230 Cartography and Graphics 3 cr
GEOGRPHY 3230 Geographic Information Systems 3 cr
GEOGRPHY 3330 Environmental Conservation 3 cr
GEOGRPHY 4030 Seminar in Geographic Development 3 cr

Human Geography course (3 credits):
GEOGRPHY 3030 Economic Geography 3 cr
GEOGRPHY 4230 Political Geography 3 cr
GEOGRPHY 4530 Historical Geography 3 cr

Advanced Regional Geography course (3-6 credits):
GEOGRPHY 3130 Geography of U.S. and Canada 3 cr
GEOGRPHY 3430 Geography of Africa 3 cr
GEOGRPHY 3630 Geography of Latin America 3 cr
GEOGRPHY 3730 Geography of Europe 3 cr
GEOGRPHY 3930 Geography of Asia 3 cr
GEOGRPHY 3960 Geography of Japan 6 cr

Plus electives to total 36 credits

Majors who wish certification as a teacher must also take GEOGRPHY 3120 Geography of Wisconsin.

Geography Minor (24 credits)

Required courses (6 credits):
GEOGRPHY 1230 Cultural Geography 3 cr
GEOGRPHY 1330 World Regional Geography 3 cr
Electives 1 cr

Physical Geography courses (8 credits):
GEOGRPHY 1040 Survey of Physical Geography 4 cr
GEOGRPHY 1140 Geomorphology 4 cr
GEOGRPHY 1240 Weather and Climate 4 cr

Geographic Techniques course (3 credits):
GEOGRPHY 2230 Cartography and Graphics 3 cr
GEOGRPHY 3230 Geographic Information Systems 3 cr

Human Geography course (3 credits):
GEOGRPHY 3030 Economic Geography 3 cr
GEOGRPHY 4230 Political Geography 3 cr
GEOGRPHY 4530 Historical Geography 3 cr

Advanced Regional Geography course (3 credits):
GEOGRPHY 3130 Geography of U.S. and Canada 3 cr
GEOGRPHY 3430 Geography of Africa 3 cr
GEOGRPHY 3630 Geography of Latin America 3 cr
GEOGRPHY 3730 Geography of Europe 3 cr
GEOGRPHY 3930 Geography of Asia 3 cr
GEOGRPHY 3960 Geography of Japan 6 cr

Plus electives to total 24 credits
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):
- AGSC1 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

About the Environmental Science and Minor

The Environmental Science minor is an interdisciplinary program designed to give students in the sciences, engineering, reclamation, agriculture, geography, industry, biology, sociology, political science, education and others a broad background in the many aspects of the environment. The minor is designed to supplement students’ careers so that they will be better equipped to function in today’s society where the environment is of prime importance.

Environmental Science Minor (24 credits)

Required courses (13 credits):
- GEOLOGY 1140 Physical Geology 4 cr
- GEOGRAPHY 3330 Environmental Conservation 3 cr
- BIOLOGY 3430 General Ecology 3 cr
- CRIMLJUS 3800 Environmental Law 3 cr

General Chemistry (5 credits):
- CHEMISTRY 1050 General Chemistry 5 cr
- CHEMISTRY 1140 General Chemistry 4 cr
- CHEMISTRY 1240 General Chemistry 4 cr

Electives (3-16 credits):
- GEOGRAPHY 1240 Weather and Climate 4 cr
- AGSC1 2230 Soils 3 cr
- GEOLOGY 3230 Sedimentary Geology 3 cr
- GEOLOGY 3430 Hydrogeology 3 cr
- CHEMISTRY 3430 Water and Waste Water 3 cr
Organismal biology course (3-4 credits):
- **BIOLOGY 2440** Plant Morphology 4 cr
- **BIOLOGY 2640** Invertebrate Zoology 4 cr
- **BIOLOGY 2730** Vertebrate Zoology 3 cr
- **BIOLOGY 3030** Ornithology 3 cr
- **BIOLOGY 3230** Fresh Water Biology 3 cr
- **BIOLOGY 3340** Entomology 4 cr
- **BIOLOGY 3540** Mycology and Plant Pathology 4 cr
- **BIOLOGY 3630** Field Zoology 3 cr
- **BIOLOGY 3640** Plant Taxonomy 4 cr

Geographic Techniques course (3 credits):
- **GEOGRAPHY 3230** Geographic Information Systems 3 cr
- **GEOGRAPHY 3520** Air Photo Interpretation 3 cr
- **GEOGRAPHY 3720** Remote Sensing 3 cr

Guided Field Experience (maximum of 4 credits):
- **BIOLOGY 4710** Selected Regional Habitats 1-3 cr
- **GEOGRAPHY 4760** Field Excursion 1-8 cr
- **GEOLOGY 4760** Field Excursion 1-8 cr

Environmental Engineering course (3-4 credits):
- **CIVILENG 3340** Environmental Engineering 4 cr
- **CIVILENG 4300** Hydrology 3 cr
- **CIVILENG 4310** Groundwater Hydrology 3 cr

**History**

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

**Contact:** Nancy Turner  
**Office:** 332 Warner Hall  
**Phone:** 608-342-1789  
**E-mail:** turnern@uwplatt.edu

**Professor:** Paula M. Nelson

**Associate Professors:**  
- David Krugler  
- David Rowley  
- Nancy Turner

**Assistant Professors:**  
- Joong-Jae Lee  
- Adam Stanley

**Lecturers:**  
- Ruth Alcalay  
- Delbert Carey  
- Susan Hellert  
- Tracey Roberts

**About the History Program and Major**

The 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 read, write, analyze and use logic. Students learn to do research; to assess arguments; 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 film 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, to assess arguments, 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 appropriate sources, and the application of appropriate methods of analysis and synthesis; and also to
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)

Required courses (12 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

U.S. History courses (6 credits):
HISTORY 3010 Race, Gender and U.S. Labor History 3 cr
HISTORY 3080 American Military History 3 cr
HISTORY 3120 American Colonial History 3 cr
HISTORY 3130 The New Nation 3 cr
HISTORY 3140 The Civil War and Reconstruction 3 cr
HISTORY 3150 Gilded Age and Progressive Era 3 cr
HISTORY 3230 The West in American History 3 cr
HISTORY 3240 African-American History 1619 to Present 3 cr
HISTORY 3320 The History of Wisconsin 3 cr
HISTORY 3400 The Vietnam War 3 cr
HISTORY 3430 Twentieth Century America 3 cr
HISTORY 3450 U.S. Foreign Relations 3 cr
HISTORY 3480 The United States Since 1945 3 cr
HISTORY 3520 American Women 3 cr
HISTORY 4230 Issues in History (U.S. topics) 3 cr

European History courses (6 credits):
HISTORY 3610 History of England to 1714 3 cr
HISTORY 3620 History of England since 1714 3 cr
HISTORY 3640 Imperialism in Africa and Asia 3 cr
HISTORY 3700 Women in European Civilization 3 cr
HISTORY 3710 Ancient Civilizations 3 cr
HISTORY 3730 Medieval Europe 3 cr
HISTORY 3740 Renaissance and Reformation 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

Non-Western courses (1-3 credits):
HISTORY 3070 Latin American History 3 cr
HISTORY 3640 Imperialism in Africa and Asia 3 cr
HISTORY 3920 Modern Middle East 3 cr
HISTORY 3950 Modern Japan 3 cr
HISTORY 3970 Modern China 3 cr
HISTORY 4110 Russia to 1856 3 cr
HISTORY 4120 Modern Russia 3 cr
HISTORY 4230 Issues in History 1-3 cr (non-Western topics)

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.

Honors Program

History majors with at least a 3.75 GPA in history and 3.50 overall may be invited to complete an honors research paper. Students wishing to do honors research should consult with their advisors.

History Minor (24 credits)

Required courses (12 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
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 elective
International Studies
http://www.uwplatt.edu/socialsci/international/international.html

Contact: Susan C. Morris
Office: 311 Warner Hall
Phone: 608-342-1809
E-mail: morrissu@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 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 course work 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 study 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 study abroad program; and
4. demonstrate competency in a second language, at least equivalent to three courses of college-level work.

General Requirements

Bachelor of Arts Degree

<table>
<thead>
<tr>
<th>Total for Graduation</th>
<th>120 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
<td>44-58 credits</td>
</tr>
<tr>
<td>Major Studies</td>
<td>60 credits</td>
</tr>
<tr>
<td>Foreign Language Minor (suggested)</td>
<td>24 credits</td>
</tr>
</tbody>
</table>

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:

Required courses (15 credits):

- HISTORY 1020 World Civilization II 3 cr
- GEOGRPHY 1330 World Regional Geography 3 cr
- ECONOMIC 2130 Principles of Macroeconomics 3 cr
- POLISCI 3030 International Relations 3 cr
- SOCIOLGY 2130 Cultural Anthropology 3 cr

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.

Electives (33 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGINDUS 2330</td>
<td>World Population, Food and Resources</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 3530</td>
<td>Art History V: Far Eastern Art</td>
<td>3 cr</td>
</tr>
<tr>
<td>BUSADMIN 1300</td>
<td>Global Business</td>
<td>3 cr</td>
</tr>
<tr>
<td>ECONOMIC 3630</td>
<td>Comparative Economic Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 2640</td>
<td>World Literature I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 2650</td>
<td>World Literature II</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGLISH 3830</td>
<td>The World Novel</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 1230</td>
<td>Survey of Cultural Geography</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 1330</td>
<td>World Regional Geography</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3030</td>
<td>Economic Geography</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3430</td>
<td>Geography of Africa</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3530</td>
<td>Topics in Regional Geography</td>
<td>2-3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3630</td>
<td>Geography of Latin America</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3730</td>
<td>Geography of Europe</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3930</td>
<td>Geography of Asia</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3960</td>
<td>Geography of Japan</td>
<td>6 cr</td>
</tr>
<tr>
<td>GEOGRPHY 4230</td>
<td>Political Geography</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 1020</td>
<td>World Civilization II</td>
<td>3 cr</td>
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<tr>
<td>HISTORY 3070</td>
<td>Latin American History</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3640</td>
<td>Imperialism in Africa and Asia</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3920</td>
<td>Modern Middle East</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3950</td>
<td>Modern Japan</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 3970</td>
<td>Modern China</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 4110</td>
<td>Russia to 1856</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 4120</td>
<td>Modern Russia</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHILSPHY 2230</td>
<td>Contemporary Worldviews</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 2430</td>
<td>Comparative Politics</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3030</td>
<td>International Relations</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3340</td>
<td>Modern Japan</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3350</td>
<td>Modern China</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.

**Foreign Study Programs**

International Studies majors are encouraged to give consideration to a semester or year abroad in one of our foreign study locations. 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. With the exception of the programs in Avignon and Puebla, the language of instruction is English. In all but these two programs, fluency in a foreign language is not a prerequisite to participation. All participants study the language of the country while they are living there. The combination of classroom work and everyday exposure to and use of the language results in a degree of fluency by the end of the semester or year abroad.

Our primary study abroad locations include London, England; Aix-en-Provence and Avignon, France; Heidelberg, Germany; Dublin and Limerick, Ireland; Lisbon, Portugal; Seville, Spain; and Puebla, Mexico. In addition, programs in China, Ecuador, Jamaica, Japan, Greece and Italy are available through consortial arrangements. Detailed information about each program is available from the Institute for Study Abroad Programs located in Royce Hall, Room 111 (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 course work to complement their major field of study. Students pursue 12 credits foreign language in one language and complete 12 credits from the list of courses fulfilling the “International Perspective” University Requirement.
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; and
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)

Required courses (12 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLISCI 1130</td>
<td>Introduction to Politics</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 1230</td>
<td>Introduction to American Government</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3650</td>
<td>Political Theory</td>
<td>3 cr</td>
</tr>
<tr>
<td>SOCIOLGY 3430</td>
<td>Social Research</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Electives (24 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLISCI 1430</td>
<td>Current Issues and Democracy</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 1530</td>
<td>Introduction to Public Policy</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 2430</td>
<td>Comparative Politics</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 2940</td>
<td>Political Economy, Race, Gender and Ethnicity</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3030</td>
<td>International Relations</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3230</td>
<td>Introduction to Public Administration</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3320</td>
<td>Congressional Politics</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3330</td>
<td>American Political Parties</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3340</td>
<td>Modern Japan</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3520</td>
<td>Judicial Process</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3530</td>
<td>State and Local Government</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3720</td>
<td>Politics of the Global Economy</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3730</td>
<td>Ethnic Rights and Politics</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 3830</td>
<td>Civil Liberties</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 4120</td>
<td>Modern Russia</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 4420</td>
<td>Constitutional Law</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 4660</td>
<td>Cooperative Field Experience</td>
<td>1-8 cr</td>
</tr>
<tr>
<td>POLISCI 4720</td>
<td>Study and Research</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>POLISCI 4760</td>
<td>Seminar in Selected Topics</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>

Political science majors must demonstrate a writing proficiency. Please see the department contact person for the requirements.

Political Science Minor (24 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLISCI 1130</td>
<td>Introduction to Politics</td>
<td>3 cr</td>
</tr>
<tr>
<td>POLISCI 1230</td>
<td>Introduction to American Government</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Elective Courses 18 cr

Economics Emphasis

Contact: Terry Liska
Economics Office: 446 Gardner Hall
Phone: 608-342-1550
E-mail: liska@uwplatt.edu

History Emphasis

Contact: Nancy Turner
History Office: 332 Warner Hall
Phone: 608-342-1789
E-mail: turnern@uwplatt.edu

Geography Emphasis

Contact: J. Elmo Rawling
Geography Office: 239 Gardner Hall
Phone: 608-342-1680
E-mail: rawlingen@uwplatt.edu

Psychology Emphasis

Contact: Elizabeth Gates
Psychology Office: 228 Warner Hall
Phone: 608-342-1723
E-mail: gatese@uwplatt.edu

The Social Sciences Comprehensive major includes course work in economics, geography, history, political science, sociology and psychology. A minor in economics, 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.

Economics Emphasis (66 credits)

| Economics required courses (15 credits): |
|-------------------------------|----------------|
| ECONOMIC 2130 Principles of Macroeconomics 3 cr |
| ECONOMIC 2230 Principles of Microeconomics 3 cr |
| ECONOMIC 3330 Intermediate Microeconomic Analysis 3 cr |
| ECONOMIC 3340 Intermediate Macroeconomic Analysis 3 cr |
| ECONOMIC 3630 Comparative Economic Systems 3 cr |

<table>
<thead>
<tr>
<th>Additional courses (3 credits):</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECONOMIC 2410 Interpretation of Business and Economic Data 3 cr</td>
</tr>
<tr>
<td>ECONOMIC 3220 Introduction to Managerial Economics 3 cr</td>
</tr>
<tr>
<td>ECONOMIC 3420 Consumer Economics 3 cr</td>
</tr>
</tbody>
</table>

Students must also choose two elective courses. The following are strongly recommended:

- ECONOMIC 3210 History of Economic Thought 3 cr
- ECONOMIC 3420 Consumer Economics 3 cr

Geography required courses (12 credits):

| GEOGRPHY 1330 World Regional Geography 3 cr |
|-----------------|----------------|
| GEOGRPHY 3030 Economic Geography 3 cr |
| GEOGRPHY 3330 Environmental Conservation 3 cr |

Three additional credits in Geography

History required courses (12 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 |

Political Science required courses (12 credits):

| POLISCI 1230 Introduction to American Government 3 cr |
| POLISCI 3030 International Relations 3 cr |

Psychology required courses (6 credits):

| PSYCHLGY 1130 General Psychology 3 cr |
| PSYCHLGY 3530 Social Psychology 3 cr |

Sociology required courses (6 credits):

| SOCIOLOGY 1030 Principles of Sociology 3 cr |
| SOCIOLOGY 2330 Contemporary Social Problems 3 cr |

Geography Emphasis (63 credits)

<table>
<thead>
<tr>
<th>Geography required courses (25 credits):</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGRPHY 1040 Survey of Physical Geography 4 cr</td>
</tr>
<tr>
<td>GEOGRPHY 1140 Physical Geography: Geomorphology 4 cr</td>
</tr>
<tr>
<td>or GEOGRPHY 1240 Physical Geography: Weather and Climate 4 cr</td>
</tr>
<tr>
<td>GEOGRPHY 1330 World Regional Geography 3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 2230 Cartography and Graphics 3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 3030 Economic Geography 3 cr</td>
</tr>
<tr>
<td>GEOGRPHY 4030 Seminar in Geographic Development and Methodology 3 cr</td>
</tr>
</tbody>
</table>

| Additional Geography courses 5 cr |

Students planning to teach must take GEOGRPHY 3330 Environmental Conservation and are strongly urged to take GEOGRPHY 3120 Geography of Wisconsin

History required courses (15 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 |
| HISTORY XXX Additional History course 3 cr |

Economics required courses (6 credits):

| ECONOMIC 2130 Principles of Macroeconomics 3 cr |
| ECONOMIC 2230 Principles of Microeconomics 3 cr |

Political Science required courses (6 credits):

| POLISCI 1230 Introduction to American Government 3 cr |
| POLISCI 3030 International Relations 3 cr |

Psychology required courses (6 credits):

| PSYCHLGY 1130 General Psychology 3 cr |
| PSYCHLGY 3530 Social Psychology 3 cr |

Sociology required courses (6 credits):

| SOCIOLOGY 1030 Principles of Sociology 3 cr |
| SOCIOLOGY 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

12 additional credits: two U.S. history, one European history, one non-Western History 36 credits from the following list (30 are required, 6 are electives)

**Geography required courses (6 credits):**
- GEOGRPHY 1330 World Regional Geography 3 cr
- GEOGRPHY 3330 Environmental Conservation 3 cr

**Possible elective (3 credits):**
- 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 (6 credits):**
- ECONOMIC 2130 Principles of Macroeconomics 3 cr
- ECONOMIC 2230 Principles of Microeconomics 3 cr

**Possible elective (3 credits):**
- ECONOMIC 2260 Economics and Western History II 3 cr
- ECONOMIC 4930 Senior Seminar 3 cr

**Political Science required courses (6 credits):**
- POLISCI 1130 Introduction to Politics 3 cr
- POLISCI 1230 Introduction to American Government 3 cr

**Sociology required courses (6 credits):**
- SOCIOLGY 1030 Principles of Sociology 3 cr
- SOCIOLGY 1130 Introduction to Anthropology 3 cr

**Possible elective (3 credits):**
- SOCIOLGY 2130 Cultural Anthropology 3 cr
- SOCIOLGY 2330 Contemporary Social Problems 3 cr
- SOCIOLGY 3230 Human Relations 3 cr

**Psychology Emphasis (69 Credits)**

**Psychology required courses (24 credits):**
- PSYCHLGY 1130 General Psychology 3 cr
- PSYCHLGY 2230 Introduction to Experimental Psychology 3 cr
- PSYCHLGY 3130 Child Psychology 3 cr
- PSYCHLGY 3230 Adolescent Psychology 3 cr
- PSYCHLGY 4030 Theories of Personality 3 cr

**or**
- PSYCHLGY 4430 Abnormal Psychology 3 cr
- PSYCHLGY xxxx Additional Psychology courses 12 cr

**Geography required courses (12 credits):**
- GEOGRPHY 1330 World Regional Geography 3 cr
- GEOGRPHY 3030 Economic Geography 3 cr
- GEOGRPHY 3330 Environmental Conservation 3 cr
- GEOGRPHY xxxx Additional Geography courses 3 cr

**History required courses (15 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
- HISTORY xxxx Additional History course 3 cr

**Economics required courses (6 credits):**
- ECONOMIC 2130 Principles of Macroeconomics 3 cr
- ECONOMIC 2230 Principles of Microeconomics 3 cr

**Political Science required courses (6 credits):**
- POLISCI 1130 Introduction to Politics 3 cr
- POLISCI 1230 Introduction to American Government 3 cr

**Sociology required courses (6 credits):**
- 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 (12 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

**Geography required courses (3 credits):**
- 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 (3 credits):**
- ECONOMIC 2130 Principles of Macroeconomics 3 cr

**Political Science required course (3 credits):**
- 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 course (3 credits):
- SOCIOLGY 1030 Principles of Sociology 3 cr
- SOCIOLGY 1130 Introductory Anthropology 3 cr

Psychology required course (3 credits):
- 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, and 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.

ECONOMICS
- ECONOMIC 2130 Principles of Macroeconomics
- ECONOMIC 2230 Principles of Microeconomics
- ECONOMIC 3530 Economic History of the United States

GEOGRAPHY
- GEOGRPHY 1230 Cultural Geography
- GEOGRPHY 1330 World Regional Geography
- GEOGRPHY 2230 Cartography and Graphics
- GEOGRPHY 3030 Economic Geography
  or
- GEOGRPHY 4230 Political Geography
  or
- GEOGRPHY 4530 Historical Geography

POLITICAL SCIENCE
- POLISCI 1130 Introduction to Politics
- POLISCI 1230 Introduction to American Government
- POLISCI 2430 Comparative Politics
- POLISCI 3030 International Relations

PSYCHOLOGY
- PSYCHLGY 1130 General Psychology
- PSYCHLGY 3230 Adolescent Psych
- PSYCHLGY 4430 Abnormal Psychology

SOCIOLOGY
- SOCIOLGY 1030 Principles of Sociology
- SOCIOLGY 2230 Women, Sex Roles, and Society
- SOCIOLGY 2330 Contemporary Social Problems
- SOCIOLGY 3130 Social Change

http://www.uwplatt.edu/socialsci/socio/socio.html

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Professors:
- David L. Zierath
- Michael G. Dalecki

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 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 3730 Communities 3 cr
- SOCIOLGY 3930 Topics in Sociology 1-3 cr
- SOCIOLGY 4030 Social Organizations 3 cr
- SOCIOLGY 4730 Individual Study 1-3 cr
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 Science

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 Science

ECONOMIC 2250  3 credits
Economics and Western History I
A historical survey of the principal problems of economics using literature dating from approximately the 4th century B.C.E. to 1870. (Fall, Spring)
  Components: Laboratory
  GE: Social Science

ECONOMIC 2260  3 credits
Economics and Western History II
Presents a historical survey of the principle problems of economics using literature dating from approximately 1870 to the present. (Fall, Spring)
  Components: Lecture
  GE: Social Science

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 Science
  Prereqs/Coreqs: P: 5 credits in mathematics or permission of the department chairperson

ECONOMIC 2940  3 credits
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 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 Offering: ETHNSTDY 2940, POLISCI 2940
  GE: Ethnic and Gender, Social Science

ECONOMIC 3210  3 credits
History of Economic Thought
Economic theory from medieval to contemporary times. Economic thought in the medieval Middle East; economic theory of scholasticism, growth of commerce and mercantilist theory. The physiocratic and classical traditions of political economy. Marxist political economy. Neoclassical economics and critiques of the neoclassical theories of value and distribution. (Offered various semesters)
  Components: Lecture
  GE: Historical Perspective-2nd course only, Social Science

ECONOMIC 3220  3 credits
Introduction to Managerial Economics
Survey of the principal applications of the theory and analytical techniques of economics to the problems of business management. (Spring)
  Components: Lecture
  GE: Social Science
  Prereqs/Coreqs: P: Sophomore standing
  Recommended: ECONOMIC 2230 and ECONOMIC 2410

ECONOMIC 3330  3 credits
Intermediate Microeconomic Analysis
A critical survey of the principal concepts of modern neoclassical microeconomics and alternatives to it. Methods of economic science; measures of elasticity; theory of consumer behavior; production and cost theory; industrial structure and conduct; input markets; market power and its determinants; introduction to Marxist, post-Keynesian and behaviorist research programs in economics. (Spring)
  Components: Lecture
  GE: Social Science
  Prereqs/Coreqs: P: Sophomore standing
  Recommended: ECONOMIC 2230

ECONOMIC 3340  3 credits
Intermediate Macroeconomic Analysis
General economic theory of the determination of national income and output, employment, price level and economic growth; prefaced by a survey of national income accounting. Keynesian, monetarist, post-Keynesian, rational expectations and real business cycle theory. Macroeconomics of open economies. Macroeconomic theory is applied to the current U.S. economic situation. (Fall)
  Components: Lecture
  GE: Social Science
  Prereqs/Coreqs: P: ECONOMIC 2130, ECONOMIC 2230 and junior standing
ECONOMIC 3420  3 credits
Consumer Economics
Focus is on how the consumer functions in the marketplace with an emphasis on consumer choice, consumer sovereignty and the economic forces that shape consumer demand. The fundamental rights of the consumer are examined and stress is placed on how an individual may become a better educated consumer as well as what government can do and is doing in the field of consumer protection. (Offered various semesters)

Components: Lecture
GE: Social Science

ECONOMIC 3430  3 credits
Labor Economics and Labor Relations
A beginning course in labor and industrial relations with emphasis on how wages are determined in various types of labor markets; broad social aspects of employer-employee relations; history, organization and structure of U.S. labor unions, problems, policies and procedures in contemporary collective bargaining; and special issues involving unemployment, productivity, worker alienation, automation and investment in human capital. (Offered various semesters)

Components: Lecture
GE: Social Science
Prereqs/Coreqs: P: Sophomore standing
Recommended: ECONOMIC 2130 and ECONOMIC 2230

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 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 Science

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 Science
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 Science
Prereqs/Coreqs: P: ECONOMIC 2130 and ECONOMIC 2230

ECONOMIC 4010  1-3 credits
Economics Workshop
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 Offering: BUSADMIN 4110
Prereqs/Coreqs: P: completion of university math requirement and ECONOMIC 2410

ECONOMIC 4330  3 credits
International Economics
A study of the major aspects of international trade, finance and commercial policy under changing world conditions. Subjects studied include various theories of international trade, effects of tariffs and quotas, exchange rate determination, balance of payments analysis and policy, international monetary systems, international economic institutions and current problems. (Offered various semesters)

Components: Lecture
GE: Social Science
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 Science
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 Science
Prereqs/Coreqs: P: ECONOMIC 2130, 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 - 8 credits
Internship
The practical application of marketing, finance, management and economics through on-the-job training. May be repeated for credit up to a total of 8 credits. Students may not enroll for more than 4 credits without permission of the dean of the college. (Offered various semesters)
Components: Field Studies

GEOGRAPHY COURSES

GEOGRPHY 1040  4 credits
Survey of Physical Geography
The features of the natural environment (lithosphere, atmosphere and hydrosphere); their character, distribution, origin and relationship with man. Principles of environmental conservation are also included. A field trip is required. Not open to students who have had GEOGRPHY 1140 or GEOGRPHY 1240.
Components: Laboratory, Lecture
GE: Natural Science

GEOGRPHY 1140  4 credits
Physical Geography: Geomorphology
The characteristics, origin and distribution of landforms. Field trips are required.
Components: Laboratory, Lecture
GE: Natural Science

GEOGRPHY 1230  3 credits
Survey of Cultural Geography
The features of the human environment (demographics, agriculture, industry, economics, politics, language and religion); their character, distribution, origin and relationships with each other and the physical environment.
Components: Lecture
GE: International Education, Social Science

GEOGRPHY 1240  4 credits
Physical Geography: 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
While Japanese students commonly have a good background in geography, the faculty at NCFL has requested that we develop a one credit course in the Geography of the United States. They see a particular advantage in having Japanese students study U.S. geography while in this country. The emphasis in this one credit course will be on cultural and economic geography.
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 Science

GEOGRPHY 1340  4 credits
Biogeography
This course examines Earth’s biosphere, which extends from the seafloor, to about 5 miles into the atmosphere. Students will study the biosphere, the distribution of biota worldwide, both past and present, and the factors that determine these patterns. Topics discussed include evolution, extinction, dispersal, altitudinal zonation, zoogeographic provinces, regional climate, vegetation structure, ecological succession, species richness, global climate change, and island biogeography.
Components: Lecture, Laboratory
GE: Natural Science

GEOGRPHY 2230  3 credits
Cartography and Graphics
Design, construction, use and interpretation of maps and graphs.
Components: Laboratory, Lecture

GEOGRPHY 3030  3 credits
Economic Geography
Location, aerial variation, functional and spatial inter-relationships of the production, exchange and consumption of goods and services.
Components: Lecture
GE: International Education, Social Science
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 Science
Prereqs/Coreqs: P: GEOGRPHY 1040, GEOGRPHY 1140, 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 Science
Prereqs/Coreqs: P: GEOGRPHY 1230, GEOGRPHY 1330 or consent of instructor

GEOGRPHY 3230  3 credits
Geographic Information Systems
Lecture and Lab on computer based spatial database systems. The course is focused on the use of PC-ArcInfo, learning the methods by which this software manipulates and stores geographic and tabular data.
Components: Laboratory, Lecture
Prereqs/Coreqs: P: GEOGRPHY 2230, 3 credits of a computer-related course or consent of the instructor

GEOGRPHY 3330  3 credits
Environmental Conservation
The relationship of humans and the natural environment. Topics include environmental worldviews, the effects of ecosystem disruption and use and misuse of natural resources.
Components: Lecture
GE: Social Science
Prereqs/Coreqs: P: Junior standing or consent of instructor
GEOGRPHY 3430  3 credits
**Geography of Africa**
The geographic region of Africa is comprehensively studied, both regionally and topically. Topics include those from both physical and human geography.

**Components:** Lecture
GE: International Education, Social Science
Prereqs/Coreqs: P: A 1000-level course in Geography or consent of instructor

GEOGRPHY 3520  3 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
Prereqs/Coreqs: P: A 1000-level course in Geology or Geography or consent of the instructor

GEOGRPHY 3530  2 - 3 credits
**Topics in Regional Geography**
Selected world regions are studied in a traditional regional or topical format.

**Components:** Lecture
GE: International Education, Social Science

GEOGRPHY 3540  4 credits
**Oceanography**
An exploration of the world's oceans and the fundamentals of physical, biological and cultural oceanography. Students will investigate the patterns and processes in the oceans, and spatially integrate them over space and time. Field trip required.

**Components:** Lecture, Laboratory
GE: Natural Science

GEOGRPHY 3630  3 credits
**Geography of Latin America**
The geographic region of Latin America is comprehensively studied, both regionally and topically. Topics include those from both physical and human geography.

**Components:** Lecture
GE: International Education, Social Science
Prereqs/Coreqs: P: A 1000-level course in Geography or consent of instructor

GEOGRPHY 3720  3 credits
**Remote Sensing**
An introduction to the nature and scope of remote sensing and the interpretation of the imagery. Applications of remote sensing to a variety of disciplines and problems including geology, environmental pollution, transportation, urban affairs, agriculture, the military, meteorology, land use, etc.

**Components:** Laboratory, Lecture
Prereqs/Coreqs: P: GEOGRPHY 2230 or GEOGRPHY 3230 or 3 credits of a computer-related course

GEOGRPHY 3730  3 credits
**Geography of Europe**
The geographic region of Europe, including Russia, the Baltic States, Ukraine, Belarus and Moldova, is comprehensively studied, both regionally and topically. Topics include those from both physical and human geography.

**Components:** Lecture
GE: International Education, Social Science
Prereqs/Coreqs: P: A 1000-level course in Geography or consent of instructor

GEOGRPHY 3740  4 credits
**Soil Geomorphology**
Soil development emphasizing the relationship to landscape throughout the Quaternary. Field Trips are required.

**Components:** Lecture, Laboratory
Prereqs/Coreqs: P: GEOGRPHY 1040, GEOGRPHY 1140, GEOLOGY 1140 or consent of instructor

GEOGRPHY 3830  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 Science
Prereqs/Coreqs: P: A 1000-level course in Geography or consent of instructor

GEOGRPHY 3930  3 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
**Seminar in Geographic Development and Methodology**
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 4130  3 credits
**Space, Place and Gender**
An introduction to gender and geography. The role of gender in the study of geography, which is concerned with places, linkages, patterns of flow, locations, landscape and the social/political/economic production of space.

**Components:** Discussion, Lecture
Cross Offering: WOMSTD 4130
GE: Gender Studies, Social Science
GEOGRPHY 4230  3 credits
Political Geography
The inter-relationships of earth and state, the geographical explanation of international relations and an examination of the geopolitics of several countries.

Components: Lecture
GE: International Education, Social Science
Prereqs/Coreqs: P: 3 credits of Geography

GEOGRPHY 4330  3 credits
Topics in Advanced Geographic Information Systems
A continuation of GEOGRPHY 3230 GIS where the student will implement a complete GIS from conception to finished maps, based on the student's discipline background. Implementation will include use of GPS (Global Positioning Systems), building geographical files, and attribute databases.

Components: Lecture
Prereqs/Coreqs: P: GEOGRPHY 3230

GEOGRPHY 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
Prereqs/Coreqs: P: GEOGRPHY 1040, GEOGRPHY 1140 or GEOLOGY 1140

GEOGRPHY 4450  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: 3 credits in Geography or consent of instructor

GEOGRPHY 4660  1 - 8 credits
Cooperative Field Experience
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure to be stipulated in a statement of agreement between the student and the department.

Components: Field Studies

GEOGRPHY 4760  1 - 8 credits
Geography Field Excursion
Field trip of 1-8 weeks duration to study regional or systematic geography firsthand in North America or overseas. Department consent required.

Components: Field Studies
GE: Social Science

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

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 and 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. 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; CHEMSTRY 1240 is recommended

GEOLOGY 3520  2 credits
Air Photo Interpretation
Use of air photos in geographical research and in other social and physical sciences; emphasis on identification of natural and cultural features.

Components: Laboratory, 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 1240 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

GEOLOGY 4920  1 - 3 credits
Individual Research in Geology
Supervised research by individual students; written report required.

Components: Independent Study

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. (Fall, Spring, Summer)

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. (Fall, Spring, Summer)

Components: Discussion, Lecture
GE: Historical Perspective, International Education

HISTORY 1330  3 credits
History of the United States, 1492-1877
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 3070  3 credits
Latin American History
The development of Hispanic and Portuguese America from the pre-contact native civilizations to the present.

Components: Lecture
GE: Historical Perspective, International Education
Prereqs/Coreqs: P: HISTORY 1020 or HISTORY 1430 or consent of instructor or department chair

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 or department chair

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 the instructor or the department chair

HISTORY 3130  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 the instructor or the department chair
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 the instructor or the department chair

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 1330 or consent of the instructor or the department chair

HISTORY 3230  3 credits
The West in American History
The frontier and the West from 1763-1920.
Components: Lecture
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of the instructor or department chair

HISTORY 3240  3 credits
African-American History 1619 to Present
The historical experience of African-Americans since 1619.
Components: Lecture
Cross Offering: ETHNSTDY 3240
GE: Ethnic Studies, Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of the instructor or department chair

HISTORY 3320  3 credits
History of Wisconsin
Development of the state of Wisconsin from colonial times to the present.
Components: Lecture
GE: Hist Perspective-2nd course only
Prereqs/Coreqs: P: HISTORY 1430 or consent of the instructor or the department chair

HISTORY 3400  3 credits
The Vietnam War
Components: Lecture
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of the instructor or the department chair

HISTORY 3430  3 credits
Twentieth Century America
Social, political, economic and diplomatic developments in the United States during this century.
Components: Lecture
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1430 or consent of the instructor or the department chair

HISTORY 3450  3 credits
History of U.S. Foreign Relations
An introduction to the origin and evolution of political, economic and cultural relations between the United States and the rest of the world.
Components: Lecture
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of the instructor or the department chair

HISTORY 3480  3 credits
The United States since 1945
A detailed examination of the U.S. after World War II, leading up to the present time. The course is structured around, though not limited to, these recurring subjects: the U.S. as a world power and its overseas commitments, including war; the stratification of U.S. society along racial, gender and class lines, and the sustained efforts of so many Americans to secure equality; the partisanship of U.S. politics; the links between class, capitalism and culture.
Components: Lecture
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1430 or consent of the instructor or the department chair

HISTORY 3520  3 credits
American Women's History
Surveys the changing patterns of domestic and family life, work, education and public participation of American women from the Colonial period to the present.
Components: Lecture
Cross Offering: WOMSTD 3520
GE: Gender Studies, Historical Perspective
Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or consent of the instructor or the department chair

HISTORY 3610  3 credits
History of England to 1714
The major political, economic and social development in Britain from earliest times to the Glorious Revolution.
Components: Lecture
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1010 or consent of the instructor or the department

HISTORY 3620  3 credits
History of England since 1714
A continuation of History 3610, but may be elected as an independent unit.
Components: Lecture
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1020 or consent of the instructor or the department chair
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 the instructor or department chair

HISTORY 3700  3 credits
Women in European Civilization
Covers actions of, and attitudes towards, women in ancient Greece and Rome, the Middle Ages, the Reformation, the Enlightenment, the French Revolution, the 19th century and the two modern wars. Analyzes women in context of family life, work life, education and social movements.
Components: Lecture
Cross Offering: WOMSTD 3700
GE: Gender Studies, Historical Perspective
Prereqs/Coreqs: P: HISTORY 1010 or HISTORY 1020 or consent of the instructor or the department chair

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 the instructor or the department chair

HISTORY 3730  3 credits
Medieval Europe
Rise of national monarchies, the church, feudalism and manorialism and the Crusades are among the highlights in this treatment of Europe from the fall of the Western Roman Empire to the Renaissance.
Components: Lecture
GE: Historical Perspective
Prereqs/Coreqs: P: HISTORY 1010 or consent of the instructor or the department chair

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 the instructor or the department chair

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 the instructor or department chair

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 the instructor or the department chair

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 the instructor or the department chair

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-Modernity. 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 1020 or consent of the instructor or the department chair

HISTORY 3920  3 credits
Modern Middle East
The history of the Middle East in the 20th century.
Components: Lecture
GE: Historical Perspective, International Education
Prereqs/Coreqs: P: HISTORY 1020 or consent of the instructor or department chair

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 the instructor or the department chair
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 Science

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 Science

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 Science

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 Science

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 Science
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 woman 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 Offering: ECONOMIC 2940, ETHNSTDY 2940
GE: Ethnic and Gender, Social Science
POLISCI 3030  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 Science  
**Prereqs/Coreqs:** P: POLISCI 1130 or junior standing or above

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 Science  
**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 Science  
**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 Science  
**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 Offering:** HISTORY 3950  
**GE:** Historical Perspective, International Education  
**Prereqs/Coreqs:** P: HISTORY 1020 or consent of the instructor or department chair

POLISCI 3350  3 credits
**Modern China**
Social, cultural and political history of Modern China from the 19th century to the present.

**Components:** Lecture  
**Cross Offering:** HISTORY 3970  
**GE:** Historical Perspective, International Education  
**Prereqs/Coreqs:** P: HISTORY 1020 or consent of the instructor or department chair

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 Science  
**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 Science

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 Science  
**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  
**Cross Offering:** ETHNSTDY 3720  
**GE:** Ethnic Studies, Social Science  
**Prereqs/Coreqs:** P: Junior standing or above

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 Offering:** ETHNSTDY 3720  
**GE:** Ethnic Studies, Social Science  
**Prereqs/Coreqs:** P: POLISCI 1230 or permission of instructor

POLISCI 3830  3 credits
**Civil Liberties**
Law and power and their abuses; law and power in relation to war on crime, deviance, freedom of religion, expression and civil disobedience; criminal and civil cases, group action.

**Components:** Lecture  
**GE:** Social Science  
**Prereqs/Coreqs:** P: POLISCI 1230

POLISCI 4120  3 credits
**Modern Russia**
Political, social, economic and cultural history of North Central Asia from the middle of the 19th century until the present time, with particular attention to Russian civilization and the political evolution from Russian empire, to Soviet partocracy, to presidential republic.

**Components:** Lecture  
**GE:** Historical Perspective, International Education  
**Prereqs/Coreqs:** P: HISTORY 1020 or consent of instructor or department chair
POLISCI 4420  3 credits

Constitutional Law
Constitutional law and political process, judicial review, civil liberties, rights and responsibilities, the role of the Supreme Court in the educational environment and student rights.

Components: Lecture
GE: Social Science
Prereqs/Coreqs: P: POLISCI 1130 or POLISCI 1230

POLISCI 4660  1 - 8 credits

Cooperative Field Experience
Enhancement of the educational experience through placement of a student with a cooperating agency, business, industry or institution. The nature of the assignment, type of experience, number of credits and evaluation procedure to be stipulated in a statement of agreement (learning contract) between the student and department.

Components: Field Studies
Prereqs/Coreqs: P: Junior standing

POLISCI 4720  1 - 3 credits

Study and Research in Political Science
Supervised individual or team study and investigation of a selected topic.

Components: Independent Study
Prereqs/Coreqs: P: Junior standing with at least 15 credit hours completed in political science

POLISCI 4730  1 - 3 credits

Trial Advocacy
Students prepare both sides of a civil or criminal case for trial playing attorney and witness roles. Knowledge of courtroom procedure and rules of evidence along with skills of teamwork, critical and analytical thinking and persuasive public speaking are applied.

Components: Lecture

POLISCI 4760  1 - 3 credits

Seminar in Selected Topics in Political Science
Presentation of a selected topic normally not of a permanent nature or suitable for a regular course. Besides regular class presentations by students and examinations, a term paper is required.

Components: Seminar
Prereqs/Coreqs: P: Junior standing

SOCIOLGY 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 Science

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 Science

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 Science

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, culture change, cultural evolution and culture as a symbol system will be considered.

Components: Lecture
GE: International Education, Social Science

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 Offering: WOMSTD 2230
GE: Gender Studies, Social Science

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 Science

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 Science

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. (Fall, Spring)

Components: Lecture
Cross Offering: ETHNSTDY 3230
GE: Ethnic and Gender, Social Science
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 Science
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 Science
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 Science

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 and alternate types of family.

Components: Lecture
GE: Social Science
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 to 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 Science
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. Department consent required.

Components: Independent Study
About the Department and Minor

The Women's 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
Jackie Bodden, Women's Studies
Stephanie Branson, English
Rosalyn Broussard, Political Science
Teresa Burns, English
Kevin Concannon, English
Martha Drummond, English
Pat Foster, Women's Center
Deborah Gillespie, English
Marilyn Gottschalk, retired faculty
Linda James, Fine Arts
Rea Kirk, Education
Mary Lenzi, Philosophy
Kathryn Lomax, Sponsored Programs
Scott Nikolai, Political Science
Regina Pauly, Karrmann Library
Vicky Suhr, Education
Kathleen Tigerman, English
Nancy Turner, History
Laura Wendoff, English
Mary Rose Williams, Communication Technologies
David Zierath, Sociology

The Women's 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 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 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 Women's 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 studies. The particular needs and concerns of part-time and continuing education students are also addressed.

All Women's 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 Studies.

Women's 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 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 United States 3 cr
- WOMSTD 3520 American Women's History 3 cr
- WOMSTD 3530 Philosophy's Feminist Future: From Powerism to Personalism 3 cr
- WOMSTD 3700 Women in European Civilization 3 cr
- WOMSTD 4500 Women and Mythology: Goddess, Witch, Sibyl 3 cr

**Group Three: Advanced Women's Studies (3 credits)**
- WOMSTD 4660 Cooperative Field Experience 3 cr
- WOMSTD 4730 Individual Research in Women's Studies 3 cr

Women's Studies Certificate (15 credits)

The basic program consists of an interdisciplinary sequence of courses leading to a certificate in women's studies and a special notation on the transcript. Students enrolled in the certificate program are required to complete 15 credits of course work in Women's Studies, including Women's Studies 1130 Introduction to Women's Studies, and one 3000 or 4000 level course in Women's Studies which may include the internship or research project. All Women's Studies courses, including those that are cross-listed under the Women's 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 Studies.
WOMEN’S 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, Social Science

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 Offering: SOCIOLOGY 2230
  GE: Gender Studies, Social Science

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.
  Components: Lecture
  Cross Offering: PSYCHLGY 2530
  GE: Gender Studies, Social Science
  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 Science

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.
  Components: Lecture
  Cross Offering: ENGLISH 2830
  GE: Gender Studies, Humanities

WOMSTD 2930  3 credits
Minority Women Writers of the United States
Literature written by Native-American women, African-American women, Latin-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, Cabeza de Baca, Louise Erdrich, Leslie Marmon Silko and others.
  Components: Lecture
  Cross Offering: ENGLISH 2930, ETHNSTDY 2930
  GE: Ethnic and Gender, Humanities
  Prereqs/Coreqs: P: ENGLISH 1130 and ENGLISH 1230

WOMSTD 3330  2 - 3 credits
Topics in Women’s Studies
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: 3 credits in Women’s Studies

WOMSTD 3340  3 credits
Management, Gender and Race
This course reviews the changing nature of management and explains why gender and race/ethnicity have become important concerns of business. It examines the status of women and people of color in managerial or administrative positions and discusses socialization processes, stereotypes, equal employment opportunity laws, diversity management, illegal harassment and power in organizations. Networking, mentoring, work/life balance and career planning also are addressed.
  Components: Lecture
  Cross Offering: BUSADMIN 3340
  GE: Ethnic and Gender
  Prereqs/Coreqs: P: BUSADMIN 2330 or AGINDUS 1500 or junior standing

WOMSTD 3430  3 credits
Women and the Arts
The focus is on the contributions of women in the areas of theater, 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

WOMSTD 3520  3 credits
American Women’s History
Surveys the changing patterns of domestic and family life, work, education and public participation of American women from the Colonial period to the present.
  Components: Lecture
  Cross Offering: HISTORY 3520
  GE: Gender Studies, Historical Perspective
  Prereqs/Coreqs: P: HISTORY 1330 or HISTORY 1430 or...
WOMSTD 3530  3 credits
**Philosophy’s Feminist Future: From Powerism to Personalism**

With a focus on major representatives of philosophical thought, this course will examine ideas 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.

- **Components:** Lecture
- **Cross Offering:** PHILSPHY 3530
- **GE:** Gender Studies, Humanities
- **Prereqs/Coreqs:** P: 3 credits in Philosophy or WOMSTD 1130 or consent of instructor

WOMSTD 3630  3 credits
**Ethnic and Gender Equity in Education**

To increase and 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:** Lecture
- **Cross Offering:** TEACHING 3630, ETHNSTDY 3630
- **GE:** Ethnic and Gender

WOMSTD 3700  3 credits
**Women in European Civilization**

Covers actions of, and attitudes towards, women in ancient Greece and Rome, the Middle Ages, the Reformation, the Enlightenment, the French Revolution, the 19th century and the two modern wars. Analyzes women in context of family life, work life, education and social movements.

- **Components:** Lecture
- **Cross Offering:** HISTORY 3700
- **GE:** Gender Studies, Historical Perspective
- **Prereqs/Coreqs:** P: HISTORY 1010 or HISTORY 1020 or consent of the instructor or the department chair

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. The course also examines ways in which law affects women in poverty and in old age.

- **Components:** Lecture
- **Cross Offering:** CRIMLJUS 3730
- **GE:** Gender Studies, Social Science
- **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, Audre Lorde and others.

- **Components:** Lecture
- **Cross Offering:** ETHNSTDY 3830
- **GE:** Ethnic and Gender
- **Prereqs/Coreqs:** Sophomore standing

WOMSTD 4130  3 credits
**Space, Place and Gender**

An introduction to gender and geography. The role of gender in the study of geography, which is concerned with places, linkages, patterns of flow, locations, landscape and the social/political/economic production of space.

- **Components:** Discussion, Lecture
- **Cross Offering:** GEOGRAPHY 4130
- **GE:** Gender Studies, Social Science

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.

- **Components:** Lecture
- **Cross Offering:** ENGLISH 4500
- **GE:** Gender Studies, Humanities, International Education

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
**School of Education**

Prereqs/Coreqs: P: WOMSTD 1130 and junior standing

Director: Michael F. Anderson
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Rea Kirk
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David Braun y Harycki
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Leigh Monhardt
Rod Zentner

Assistant Professors:
Steven Benish
Gregory Imbur
Colleen McCabe
Wonim Son
Craig Wheeler

Lecturers:
Sue Alborn-Yilek
Tom Antczak
Dave Chellevold
Pam Connolly
Ulrich Daeuber
Linda Doser
Lisa Emendorfer
Loren Finn
Jodean Grunow
Dale Henze
Vic Levy
James Nickasch
Julie Phillips
Heather Riley
Scott Ringgenberg
Scott Soja

Teacher Licensure
Licensure Requirements
Approved Licensure Programs

Statutory and Administrative Code Requirements

**Teacher Education**
Early Childhood through Middle Childhood (birth - age 11)
Early Adolescence (ages 10 - 14)
Early Adolescence through Adolescence (ages 10 - 21)
Early Childhood through Adolescence (birth - age 21)
Special Education/Inclusion minor

**Counselor Education**
Counselor Education (graduate program)

**Physical Education and Health**
Physical Education and Health

**Mission of the School of Education**
The mission of the School of Education (SoE) is to serve the pre-and in-service needs of professionals in Southwestern Wisconsin and beyond.

**Baccalaureate:** The undergraduate curriculum prepares candidates for initial licensure as professional educators.

**Post Baccalaureate:** A variety of programs (e.g. cross categorical, education administration, reading licensure) are provided to assist teachers to extend their licensure areas and to build professional portfolios.

**Master of Science in Education:** The graduate curriculum focuses on the enrichment of the professional in current practice, based on career cycle needs.

**Partnership:** The School of Education is committed to the University of Wisconsin-Platteville mission, including the provision of programs in teacher education and a specialized program in middle school education. Multitudes of formal and informal partnerships exist within the university community, local school districts and other agencies and industries wherein reciprocal services are provided.

**Knowledge, Skill and Disposition Statements**

**Domain 1: Planning and Preparation**
Candidates will:
- demonstrate knowledge of content and pedagogy;
- demonstrate knowledge of students;
- select instructional goals;
- demonstrate knowledge of resources;
- design coherent instruction;
- assess student learning.

**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: Dominic Barraclough, Ph.D.
E-mail: barracld@uwplatt.edu or phone 608-342-1252

**Physical Education and Health**
Contact: Colleen McCabe
E-mail: mccabec@uwplatt.edu or phone 608-342-1573

**Teacher Education**
Contact: Gwen Coe, Ph.D.
E-mail: coe@uwplatt.edu or phone 608-342-1131

The School of Education has a rich history at UW-Platteville. The university has been preparing teachers since the first Normal School was established in 1866. The school takes great pride in this tradition and is committed to the continuation of quality in its educational offerings and programs.

The degree programs build on the School of Education theme, Best Practices Make the Difference. Best practices follow a developmental, reflective model. Best practices teachers are defined as professionals who are aware of the developmental stages of their students as well as their own professional developmental needs. Best practices teachers are growing in their skills of providing developmentally appropriate instruction and effective teacher strategies to assist students in becoming reflective thinkers. Best practices teachers are themselves reflective thinkers.

The School of Education administers professional education programs at UW-Platteville and is responsible for the preparation of teachers. The School of Education is responsible for all professional and clinical programs; serves as a resource center for students, faculty, program directors and administrators; maintains appropriate student records; and maintains appropriate records for accreditation and Wisconsin Department of Public Instruction program approval, and for National Council for Accreditation of Teacher Education (NCATE) approval.

**Education Office of Special Programs**
The Education Office of Special Programs (EOSP) provides administrative support to many teacher education programs and, in particular, the cross-categorical special education and English language learner programs that lead to licensure by the Wisconsin Department of Public Instruction. The office also makes available for purchase or checkout educational resources for middle level educators. These resources were compiled during the many years that UWP housed the Center of Education for the Young Adolescent (CEYA) and hosted the summer seminar. Teaching the Transcendent. Seminars offered by the university today revolve around topics of interest identified by teachers of all levels in their professional development plans. More information can be obtained by calling 608-342-1276 or 1-800-208-7041.

**Title II Reporting**
Amendments to the Higher Education Act signed into law October 1998 require that institutions of higher education and state departments of education supply data to the United States Secretary of Education to be used in an annual report card on teacher preparation. In compliance with reporting requirements, UW-Platteville provides the following information:

UW-Platteville offers teacher education programs leading to certification in early childhood, elementary, middle, and middle/secondary education and in PK-12 special fields. During the 2004-2005 academic year, 380 students who had been admitted to the School of Education were enrolled in education programs at the university. Of these 380 teacher candidates, 127 participated in supervised practice teaching, which required an average of 700 hours to complete. The 127 teacher candidates were supervised by 51 faculty, which resulted in a student to faculty ratio of 18.004 to 1.

**Teacher Licensure Requirements**
The Wisconsin Department of Public Instruction (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 Department of Public Instruction to discuss eligibility for a teaching license. (B) The Department of Public Instruction 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 (PPST) in their freshman year. All students should file application for admission to the School of Education by their sophomore year at UWP.

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 UWP 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 Pre-Professional Skills Test (PPST). Passing scores for PPST are reading 175, writing 174 and mathematics 173. Teacher candidates should take the PPST during their first year at UWP.
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. Attend and have written verification that the teacher candidate attended the STEPS presentation during TEACHING 1230 Introduction to Education/PHYSED 2320 Introduction to Physical Education and Health Promotion class.
4. Be recommended for admission by two people (other than friends, relatives or UWP faculty) who can assess the student’s potential to be a teacher.
5. Have earned 40 semester credits in an accredited college of which at least 15 credits have been earned at UWP.
6. Have a cumulative grade point average (GPA) of 2.65 or better.
7. Prepare an admission portfolio and submit it to the interview committee during Pre-Professional Days, and be recommended for admission by the committee.
8. 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 (GPA) or unsatisfactory scores on any subsection of the Pre-Professional Skills Test (PPST). In addition, a student might be denied admission based on faculty assessment of the applicant’s capacity to complete success-fully 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 course work, 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 (GPA) of 2.75 overall and in major(s), teaching minor(s) and professional education courses. (Note: 3.00 is required in major and minor 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.
5. Have passed the appropriate Praxis II content test(s). No waivers are 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 GPA of 3.0. 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 Department of Public Instruction 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 Department of Public Instruction 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 GPA 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 Department of Public Instruction.

Teacher education programs at UW-Platteville satisfy the requirements for licensure through the Wisconsin Department of Public Instruction. 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 theater

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/Industrial Technology Education (B-21): School of Agriculture (BILSA)  
- Art (B-21): Department of Performing and Visual Arts (LAE)  
- Comprehensive (Broadfield) Social Sciences (10-21): Department of Social Sciences (LAE)  
- General (Broadfield) Science (10-21): Department of Chemistry and Engineering Physics (EMS)  
- Music-Choral (B-21): Department of Performing and Visual Arts (LAE)  
- Music-General (B-21): Department of Performing and Visual Arts (LAE)  
- Music-Instrumental (B-21): Department of Performing and Visual Arts (LAE)  
- Technology Education (B-21): Department of Industrial Studies (BILSA)

Approved Majors

- Biology: Department of Biology (BILSA)  
- Chemistry: Department of Chemistry and Engineering Physics (EMS)  
- Early Adolescence (middle-level, 10-14): School of Education (LAE)  
- Elementary Education (B-11): School of Education (LAE)  
- English: Department of Humanities (LAE)  
- German: Department of Humanities (LAE)  
- History: Department of Social Sciences (LAE)  
- Mathematics: Department of Mathematics (EMS)  
- Physical Education: School of Education (LAE)  
- Spanish: Department of Humanities (LAE)  
- Theater: Department of Performing and Visual Arts (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)  
- Theater: Department of Performing and Visual Arts (LAE)

Approved Concentrations

- Adapted Physical Education (B-21):
Statutory and Administrative Code Requirements

Conservation
Teachers of science, social studies, agriculture, early childhood, elementary and middle-level education programs are required to complete course work in environmental education. GEOGRAPHY 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 Producer and Consumer Cooperatives fulfills this requirement. Also, HISTORY 1430 History of the U.S. since 1877 includes a unit on cooperatives which satisfies this requirement for social studies teachers.

Reading
For teachers in B-11 programs, Wisconsin requires course work 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 bases 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 United States.

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 (CWD)
All applicants for teaching licenses must meet the code requirements with regard to Children with Disabilities (CWD). TEACHING 3320 Psychology of Learning Encompassing the Exceptional Child 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
Students seeking teaching licensure must be sure that courses taken for university general education requirements also satisfy the Wisconsin Department of Public Instruction (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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Minimum Grade</th>
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</thead>
<tbody>
<tr>
<td>ENGLISH 1130</td>
<td>3 cr</td>
<td>“C” or better</td>
</tr>
<tr>
<td>ENGLISH 1230</td>
<td>3 cr</td>
<td>“C” or better</td>
</tr>
<tr>
<td>SPEECH 2010</td>
<td>3 cr</td>
<td>“C” or better</td>
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or

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Minimum Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPEECH 1010</td>
<td>2 cr</td>
<td>“C” or better</td>
</tr>
</tbody>
</table>

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 course work is enriched by involvement with children and families, through observation/participation experiences in the UWP 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**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Total for graduation</td>
<td>129-135</td>
</tr>
<tr>
<td>General Education</td>
<td>49-55</td>
</tr>
<tr>
<td>Elementary Education Major</td>
<td>25</td>
</tr>
<tr>
<td>Early Childhood Minor</td>
<td>24</td>
</tr>
</tbody>
</table>

Licensure requires a GPA 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):** “Cs” or better required

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGLISH 1130</td>
<td>3 cr</td>
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<tr>
<td>ENGLISH 1230</td>
<td>3 cr</td>
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<tr>
<td>SPEECH 2010</td>
<td>3 cr</td>
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<td>or</td>
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<tr>
<td>SPEECH 1010</td>
<td>2 cr</td>
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</table>

**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):** “Cs” or better required

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 1030</td>
<td>3 cr</td>
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<tr>
<td>MATH 2030</td>
<td>3 cr</td>
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<tr>
<td>MATH 3030</td>
<td>3 cr</td>
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**Physical Education (2 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHYSED 1000</td>
<td>1 cr</td>
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<tr>
<td>PHYSED 1000</td>
<td>1 cr</td>
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**Humanities, Fine Arts and Historical Perspective (12 credits):**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fine Arts course (required)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ART 1230</td>
<td>3 cr</td>
</tr>
<tr>
<td>Humansitement Literature Course (required)</td>
<td>3 cr</td>
</tr>
<tr>
<td>HISTORY 1020</td>
<td>3 cr</td>
</tr>
<tr>
<td>In-depth Humanities, Fine Arts or Historical Perspective course</td>
<td>3 cr</td>
</tr>
<tr>
<td>In-depth Humanities, Fine Arts or Historical Perspective course</td>
<td>3 cr</td>
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</table>

**Social Sciences (9 credits):**

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>POLISCI 1230</td>
<td>3 cr</td>
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<tr>
<td>GEOGRPHY 3330</td>
<td>3 cr</td>
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<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>POLISCI or GEOGRPHY</td>
<td></td>
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<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>PSYCHLGY 1130</td>
<td>3 cr</td>
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<tr>
<td>PSYCHLGY 3130</td>
<td>3 cr</td>
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Either in POLISCI or social science GEOGRPHY or PSYCHLGY 3130 Child Psychology to form depth in social sciences and to satisfy development course in Professional Education.

**Natural Sciences (9 credits):**

<table>
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<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Science lab course (required)</td>
<td>4-5 cr</td>
</tr>
<tr>
<td>Physical Science lab course (required)</td>
<td>4-5 cr</td>
</tr>
</tbody>
</table>

select from chemistry, geography, geology, physics, or physical science
International Education/Ethnic and Gender Studies (6-9 credits):

HISTORY 1020 World Civilization II 3 cr
(double counts as Historical Perspective and International Education)
TEACHING 3630 Ethnic/Gender Equity in Education 3 cr
(counts for both ethnic and gender studies plus Professional Education)

Elementary Education Major (Birth-Age 11) (25 credits)

GPA 3.00 or better and grade of “C” or better in all courses listed below:

PHYSED 2040 Health, Nutrition and Physical Education 4 cr
TEACHING 3040 Reading, Literature and Literacy I 4 cr
TEACHING 4040 Reading, Literature and Literacy II 4 cr
TEACHING 4090 Integrated Methods: Language Arts and Social Studies 4 cr
TEACHING 4140 Teaching Mathematics/Science in 4 cr
Early Childhood/Elementary Settings
MUSIC 3160 Elementary Music Methods 3 cr
TEACHING 4250 Senior Seminar 2 cr

Early Childhood Minor (Birth-Age 11) (24 credits)

GPA 3.00 or better

TEACHING 2210 Foundations of Early Childhood Education 3 cr
TEACHING 3130 K-4 Methods for Cognitive Development 3 cr
TEACHING 3240 Pre-K Methods for Cognitive Development 3 cr
TEACHING 3640 Creative Development in Early Childhood 3 cr
TEACHING 3730 Guidance, Assessment and Instruction in Early Childhood 4 cr
TEACHING 4330 Administration and Family Relations in Early Childhood 3 cr
TEACHING 4420 Oral Language and Emergent Literacy 3 cr
TEACHING 4730 Working with Families of Children with Disabilities 2 cr

Professional Education (Birth-Age 11) (31 credits)

GPA 3.00 or better

TEACHING 1230 Introduction to Education 2 cr
TEACHING 2010 Computer Applications 1 cr
(Teaching or test out)
TEACHING 2130 Human Growth and Development 3 cr
or
PSYCHLGY 3130 Child Psychology 3 cr
TEACHING 3320 Psychology of Learning/Exceptional Child 3 cr
TEACHING 3630 Ethnic and Gender Equity in Education 3 cr
TEACHING 4020 Educational Media Technology 2 cr
TEACHING 4240 Student Teaching (Early Childhood) 2 cr
TEACHING 4260/Student Teaching 12 cr

4360 (Kindergarten/Primary)
or
TEACHING 4760 Internship 12 cr
TEACHING 4990 Licensure Portfolio 3 cr

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 (CWD) in the “general” education classroom.

TEACHING 4030 Management for Children with Disabilities (CWD) 3 cr
TEACHING 4120 Pre-Student Teaching in CWD Environment or approved substitution 2 cr
TEACHING 4150 Assessing Children with Disabilities (CDW) 3 cr
or
COUNSLED 4600 Measurement for Counseling 1-3 cr
TEACHING 4200 Transitions for Children with Disabilities (CWD) 3 cr
TEACHING 4630 Learning and Language Disorders 3 cr
TEACHING 4730 Working with Families of Children with Disabilities (CWD) 2 cr
TEACHING 4830 Strategies for Effective Inclusion 3 cr

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)

Credits requirement for graduation... 124 credits and up
General Education.................................................49-55 cr
Minor(s)..........................................................49-55 cr
Professional Education............................................51 credits

General Education (Ages 10-14) (49-55 credits)

Communication (8-9 credits): “Cs” or better required

ENGLISH 1130 Freshman Composition I 3 cr
ENGLISH 1230 Freshman Composition II 3 cr
SPEECH 1010 Public Speaking (acceptable) 2 cr
SPEECH 2010 Speech Communication for Teachers (recommended) 3 cr

Foreign Language (0-8 credits):

Students who have not averaged “C” or better in a second year high school language have not met this requirement. Check the catalog for specific requirements.

Math (9 credits): “Cs” or better required

MATH 1030 Math for Educators I 3 cr
MATH 2030 Math for Educators II 3 cr
MATH 3030 Math for Educators III 3 cr
Physical Education (2 credits):
PHYSED 1000 Fitness Assessment and Management 1 cr
PHYSED XXXX Physical Activity 1 cr
(see class schedule)

Humanities, Fine Arts and Historical Perspective (12 credits):
Fine Arts course 3 cr
Humanities Literature course 3 cr
HISTORY 1020 World Civilization II 3 cr
In-depth Humanities, Fine Arts or Historical Perspective course 3 cr

Social Sciences (9 credits):
POLISCI 1230 Introduction to American Government 3 cr
Social Sciences Course in 2nd discipline 3 cr
Note: GEOGRPHY 3330 Environmental Conservation is required for all social science and science majors and minors. Either in-depth Social Sciences Course or PSYCHLGY 1130 General Psychology (if PSYCHLGY 3230 is to be completed as part of Professional Education)

Natural Sciences (9 credits):
Biological Science lab course 4-5 cr
Physical Science lab course (required): select from chemistry, geology, physics, or physical science 4-5 cr

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)

Minors (Ages 10-14)(24-48 credits)
GPA 2.75 or better
Interdisciplinary Studies Minor or Minors in Two Academic Areas

Professional Education (Ages 10-14)(51 credits)
GPA 2.75 or better
Grade of “C” or better in all courses listed below:
PHYSED 2030 Health Education 2 cr
TEACHING 1010 Middle-Level Mentoring 2 cr
or
TEACHING 1230 Introduction to Education 2 cr
TEACHING 2010 Computer Applications in Education 1 cr
TEACHING 2020 Middle-Level Exploratory I 1 cr
TEACHING 2030 Middle-Level Exploratory II 1 cr
TEACHING 2130 Human Growth and Development 3 cr
TEACHING 3320 Psychology of Learning of the Exceptional Child 3 cr
TEACHING 3630 Ethnic/Gender Equity in Education 3 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 3 cr
In-depth Humanities, Fine Arts or Historical Perspective Course 3 cr

Early Adolescence/Adolescence (Ages 10-21)
Middle/Secondary Education Requirements
Credit requirement for graduation: 120 credits and up

General Education: 43-49 credits
Major/Minor ........................................ 36-60 credits
Professional Education .......................... 46-55 credits
Range of total credits for completion .......... 125-162 credits

General Education (Ages 10-21) (43-49 credits)

Communication (8-9 credits): “C”s or better required
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 (recommended) 3 cr

Foreign Language (0-8 credits):
Students who have not averaged “C” or better in a second year high school language have not met this requirement. Check the catalog for specific requirements.

Math (3 credits):
MATH at or above 1630 3 cr

Physical Education (2 credits):
PHYSED 1000 Fitness Assessment and Management 1 cr
PHYSED XXXX Physical Activity 1 cr
(see class schedule)

Humanities, Fine Arts and Historical Perspective (12 credits):
Fine Arts Course (required) 3 cr
Humanities Literature Course (required) 3 cr
HISTORY 1020 World Civilization II 3 cr
In-depth Humanities, Fine Arts or Historical Perspective Course 3 cr
Social Sciences (9 credits):

POLISCI 1230 Introduction to American Government 3 cr
Social Sciences Course in 2nd discipline 3 cr

Note: GEOGRPHY 3330 Environmental Conservation is required for all social science and science majors and minors.

In-depth Social Sciences course 3 cr
Either in-depth Social Sciences Course or
PSYCHLGY 1130 General Psychology (if PSYCHLGY 3230 is to be completed as part of Professional Education)

Natural Sciences (9 credits):

Biological Science lab course 4-5 cr
Physical Science lab course (required): select from chemistry, geography, geology, physics, or physical science 4-5 cr

International Education/Ethnic and Gender Studies (6-9 credits):

HISTORY 1020 World Civilization II 3 cr
(double counts as Historical Perspective and International Education)
TEACHING 3630 Ethnic/Gender Equity in Education 3 cr
(counts for both ethnic and gender studies plus Professional Education)

Major/Minor (Ages 10-21)(36-60 credits)

GPA 2.75 or better
See appropriate department listings for required courses.

Professional Education (Ages 10-21)(46-55 credits)

GPA 2.75 or better
Grade of “C” or better in all courses listed below:

Option A (12 credits):

TEACHING 3110 Key Concepts in Middle Level Education 2 cr
TEACHING 3120 Characteristics of Transcendent 2 cr
TEACHING 4210 Pre-Student Teaching 2 cr
TEACHING 4020 Educational Media Technology 2 cr
TEACHING 4220 Advising, Interaction and Communication 2 cr
TEACHING 4620 Teaching Transcendent 2 cr

Option B (18 credits):

TEACHING 4050 Middle-Level Professional Preparation 18 cr

Early Childhood through 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................................. 37-48 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 (recommended) 3 cr

Foreign Language (0-8 credits):

Students who have not averaged “C” or better in a second year high school language have not met this requirement. Check the catalog for specific requirements.

Math (3 credits):

MATH at or above 1630 3 cr

Physical Education (2 credits):

PHYSED 1000 Fitness Assessment and Management 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 3 cr
In-depth Humanities, Fine Arts or Historical Perspective 3 cr

Social Sciences (9 credits):

POLISCI 1230 Introduction to American Government 3 cr
Social Sciences Course in 2nd 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  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)
GPA 2.75 or better
See appropriate department listings for required courses.

Professional Education (Birth-Age 21) (38-48 credits)
GPA 2.75 or better
Grade of “C” or better in all courses listed below:

Required courses (30+ credits):
TEACHING 1230  Introduction to Education  2 cr
TEACHING 2010  Computer Applications  1 cr
in Education
TEACHING 2130  Human Growth and Development  3 cr
TEACHING 3320  Psychology of Learning of  3 cr
the Exceptional Child
TEACHING 3630  Ethnic/Gender Equity in Education  3 cr
Methods of Teaching Major  3+ cr
TEACHING 4660  Student Teaching  12 cr
or
TEACHING 4760  Internship  12 cr
TEACHING 4990  Licensure Portfolio  3 cr

Must complete Option A, B or C
Note: This does not apply to Physical Education and Health.

Option A (8 credits):
TEACHING 4020  Educational Media Technology  2 cr
TEACHING 4210  Pre-Student Teaching  2 cr
TEACHING 3110  Key Concepts in Middle  2 cr
   Level Education
TEACHING 3120  Characteristics of Transcendants  2 cr

Option B (12 credits):
TEACHING 3110  Key Concepts in Middle Level  2 cr
   Education
TEACHING 3120  Characteristics of Transcendants  2 cr
TEACHING 4020  Educational Media Technology  2 cr
TEACHING 4220  Advising, Interaction  2 cr
   and Communication
TEACHING 4620  Teaching Transcendants  2 cr

Option C (18 credits):
TEACHING 4050  Middle-Level Professional  18 cr
   Preparation

TEACHING COURSES
TEACHING 1010  2 credits
Mentoring the Young Adolescent
Designed to help high school seniors decide if they would like to
enter the field of teaching, particularly in the developmental stage
known as the young adolescent (10-14 years of age). Further, this
course is designed to help these high school students begin to
develop the knowledge, skills and dispositions necessary to become
teachers of young adolescents.
   Components: Lecture

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).
(Experiential component: 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.
   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 adoles-
cents. The seminars will also assist the student in understanding the
10-14 licensure program.
   Components: Lecture

TEACHING 2040  1 credit
Electronic Portfolio
Designed to teach the student how to develop, design and utilize an
electronic portfolio through all level of mastery.
   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 develop-
mental level of specific relevance to their future educational career.
The physical, social, emotional and cognitive areas of develop-
ment 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 hu-
man development for education and other work with children and
youth will be an important focus of the course.
   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
Prereqs/Coreqs: C: TEACHING 3130, TEACHING 3240, 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 or TEACHING 2220; 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
Prereqs/Coreqs: C: TEACHING 3040, TEACHING 3240, 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)
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
Prereqs/Coreqs: C: TEACHING 3040, TEACHING 3130, TEACHING 3730 and TEACHING 4420

TEACHING 3320  3 credits
Psychology of Learning Encompassing the Exceptional Child
This course will expose students to several theories that impact the teaching and 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 and TEACHING 1230 or PHYSED 2320 or consent of instructor

TEACHING 3530  3 credits
Teaching History and Social Studies at the Middle and Secondary Schools
A study of the goals, skills, issues, materials and the role of history and social studies instruction in middle and high schools. The School of Education knowledge base as it applies to history and social studies instruction is explored. (Field experience: 30 hours)
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: Lecture
Cross Offering: 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, TEACHING 3130, TEACHING 3240 and TEACHING 4420
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; inter-relationship of communication theory; selection, utilization and production of materials, microcomputer applications and the operation of equipment.

Components: Laboratory, Lecture
Prereqs/Coreqs: P: TEACHING 2010

TEACHING 4030 3 credits
Management for Children with Disabilities (CWD)
This course is designed to increase awareness and ability to implement various behavior management strategies with Learning Disabled (L.D.) and Emotionally Disabled children. 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 LD and ED children, transcecents and adolescents.

Components: Lecture
Prereqs/Coreqs: P: Admission to the School of Education

TEACHING 4040 4 credits
Reading, Literacy and Literature II
Reading processes, expanding word recognition strategies, comprehension, reading rates, vocabulary, reading interests, selection and use of reading materials, evaluation of the reading progress, laboratory experiences with children, integrating literature into middle childhood.

Components: Laboratory, Lecture
Prereqs/Coreqs: P: TEACHING 3040

TEACHING 4050 18 credits
Middle Level Professional Semester
This course is designed for students seeking certification to teach at the middle level. Through this course, students will develop, practice, refine and demonstrate the knowledge, skills and dispositions needed to become excellent middle level teachers. The course will address methods of teaching that are specific to the core content areas of language arts, mathematics, science and social studies, as well as more general teaching methods appropriate for use at the middle level. The course will include a study of the physical, intellectual, emotional, social and moral development of young adolescents. Educational philosophies and theories of learning will be discussed and students will become proficient in the use of various assessment and evaluation strategies and in the use of technology in the classroom.
A field experience in a middle school is included in this course.

Components: Lecture
Prereqs/Coreqs: P: Admission to the School of Education

TEACHING 4060 3 credits
Teaching World Languages: Theory and Practice
Designed to prepare future teachers of French, German and Spanish for successful careers. This course blends the theory of second language acquisition with the practice of teaching according to the state standards.

Components: Lecture

TEACHING 4070 2 credits
Post-Student Teaching Seminar
This course is designed as a capstone course for pre-service teachers who are completing the middle level education 10-14 (early adolescence) licensure program. Throughout this course, pre-service teachers will develop, practice, refine and demonstrate the knowledge, skills and dispositions needed to become excellent middle level teachers. Students will complete their licensure portfolios that are required for licensure and program graduation. The course will reflect on the methods of teaching that pre-service teachers drew from their experiences of student teaching. The course will use practical experiences to put into context the developmental natures of early adolescent learners and how those natures impact classroom practices. Educational philosophies and theories of learning will be discussed.

Components: Seminar

TEACHING 4090 4 credits
Integrated Methods: Language Arts and Social Studies
This course focuses on connections of content, methods and developmental needs of early childhood/elementary language arts and social studies.

Components: Laboratory, Lecture
Prereqs/Coreqs: P: Admission to the School of Education;
P: TEACHING 4140

TEACHING 4120 2 credits
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 EEN environment. Required of students working towards a special education/inclusion minor.

Components: Lecture
Prereqs/Coreqs: P: Admission to the School of Education

TEACHING 4140 4 credits
Teaching Mathematics and Science in Early Childhood and Elementary Settings
This course addresses standards, methods, theories and materials related to teaching mathematics and science in early childhood and elementary settings.

Components: Laboratory, Lecture
Prereqs/Coreqs: P: “C” or better in MATH 2110 or MATH 3030 and Admission to the School of Education;
P: 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.
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.
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.
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, TEACHING 3240, TEACHING 3040, TEACHING 3730 and TEACHING 4420

Student Teaching B-11 Kindergarten
Components: Field Studies
Prereqs/Coreqs: P: TEACHING 3040, TEACHING 3130, TEACHING 3240, TEACHING 3730 and TEACHING 4420; C: TEACHING 4360 and TEACHING 4990

Issues in ELL Education
This course addresses the social, political and cultural context in which language learning takes place and examines those issues that are relevant in language acquisition. Themes, such as immigration and diversity in the United States, language policies, history of bilingual education, English-only movement, English language learners and disability will be analyzed in this course. Instructor consent required.
Components: Lecture

Second Language Acquisition in the K-12 Classroom
This course examines theories of second language acquisition and practical application of theories to second language teaching and learning. The course provides a comprehensive interdisciplinary survey of theory and practice through the application of research in linguistics, psychology, education and sociology into second language acquisition. Instructor consent required.
Components: Lecture

Methods and Assessment of Teaching English Language Learners
This course is designed to examine methods and assessment of teaching English language learners. The course stresses a comprehensive understanding of the history of first and second language teaching methods from the past to the present, including knowledge of the traditional, contemporary and innovative methods and approaches in teaching English language learners. Practical pedagogical principles of teaching English to speakers of other languages with regard to language skills, language system and related assessment and cultural implications are included. Instructor consent required.
Components: Lecture

ELL Practicum
This course is designed for students who successfully completed the courses Issues in ELL Education, Second Language Acquisition Theories and Methods and Assessment of Teaching English Language Learners. It provides opportunities for teachers to reflect on their practice in light of theories of SLA and ELL teaching methods and assessment. The course provides teachers a platform to critically evaluate their teaching skills and make improvements justified by current research literature. Throughout the practicum, students deepen their understanding in the ELL/SLA field by reading and researching English language learners-related professional articles.
Components: Lecture
TEACHING 4330 3 credits
Administration and Family Relations in Early Childhood
Development of managerial and leadership roles, knowledge of requirements for licensure and licensing, effective communication with staff and parents, community relations and advocacy.
Components: Lecture
Prereqs/Coreqs: P: TEACHING 2210

TEACHING 4360 6 credits
Student Teaching Elementary
Components: Field Studies
Prereqs/Coreqs: C: TEACHING 4260 and TEACHING 4990

TEACHING 4420 3 credits
Oral Language and Emergent Literacy
The development of communication, acquisition of language, development of phonology, structure of language, dialect variations, how language is acquired, assessment of language and communication skills and classroom approaches to oral language development.
(Laboratory/Field experience)
Components: Lecture
Prereqs/Coreqs: P: TEACHING 2210 or TEACHING 1230; C: TEACHING 3040, TEACHING 3130, TEACHING 3240 and TEACHING 3730

TEACHING 4460 6 - 12 credits
Student Teaching 10-14
Components: Field Studies
Prereqs/Coreqs: P: TEACHING 4050 or TEACHING 4220; C: TEACHING 4990

TEACHING 4530 1 - 3 credits
Current Topics in Education
Study of a selected topic determined by an identified need. For example: current issues, ideas and topics of interest to a particular group of teachers.
Components: Lecture

TEACHING 4560 6 credits
Student Teaching 10-21 Secondary
Components: Field Studies
Prereqs/Coreqs: P: TEACHING 4050 or TEACHING 4220; C: TEACHING 4990

TEACHING 4620 2 credits
Teaching Transcendents
This course provides an overview of the curricular and instructional practices appropriate for the young adolescent learner. Issues, trends and research relevant to effective middle level practices will be discussed.
Components: Lecture
Prereqs/Coreqs: P: Admission to the School of Education, TEACHING 3110 and TEACHING 3120; C: TEACHING 4220

TEACHING 4630 3 credits
Learning and Language Disorders
Course will review pre-kindergarten/Kindergarten through young adult development and identification with children with disabilities (CWD); emphasize diagnosis and remediation of learning disorders through a special education approach with emphasis on inclusion model; study of appropriate learning environments.
Components: Lecture
Prereqs/Coreqs: P: Junior standing or consent of instructor

TEACHING 4660 6-12 credits
Student Teaching B-21
Supervised individual study of a topic selected by the student with staff approval.
Components: Fields Studies
Prereqs/Coreqs: P: TEACHING 4210 or PHYSED 4530; C: TEACHING 4990

TEACHING 4710 1 - 3 credits
Independent Study in Education
Supervised individual study of a topic selected by the student with staff approval.
Components: Independent Study

TEACHING 4730 2 credits
Working with Families of Children with Disabilities (CWD)
Course enables teachers and other professionals to provide parents and other family members with knowledge and skills to become full partners in the educational process by learning advocacy techniques. Professionals need more information relative to parent's needs and participation. Identification of needs and concerns of family members of persons with disabilities should lead to design of programs that facilitate family participation in all phases of schooling process. Teachers and parents working together should lead to more effective outcomes for students with disabilities as they go through school and prepare to live, work and play in community as adults.
Components: Lecture

TEACHING 4760 12 credits
Internship in Teaching
This course is designed for those teacher education candidates who have been hired as intern teachers by school districts to fulfill the Department of Public Instruction required student teaching practicum. As part of this course, the teacher candidate will complete the professional teacher education graduation portfolio.
Components: Field Studies
Prereqs/Coreqs: P: TEACHING 4110, TEACHING 4120, TEACHING 4050, TEACHING 4210 or (TEACHING 3040, TEACHING 3130, TEACHING 3240, TEACHING 3730 and TEACHING 4420); C: TEACHING 4990

TEACHING 4830 3 credits
Strategies for Effective Inclusion
This course is designed to help the future/current general education teacher to meet the needs of students with disabilities who are in general classrooms. This class is designed to increase the comfort level, skill level and confidence level of teachers with this work.
Components: Lecture

TEACHING 4990 3 credits
Licensure Portfolio
This course fulfills the Department of Public Instruction requirement regarding licensure portfolios. Portfolios are based upon the Wisconsin Standards for Teachers. Students are required to submit their portfolios 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 portfolios meet the requirements. Enrollment is concurrent with student teaching. Offered as Pass/Fail.
Components: Lecture
Prereqs/Coreqs: Admission to the School of Education and admission to student teaching
COUNSELOR EDUCATION

Program Contact: Dominic Barraclough
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Professors:
Kimberly Tuescher
James J. King (Emeritus)

Associate Professor:
Dominic Barraclough

Assistant Professors:
Steven Benish
Craig Wheeler

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 (MSE) 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.

COUNSELOR EDUCATION COURSES

COUNSLED 1010 1 credit
Introduction to College Life
This course is designed to provide a student with an opportunity to examine college lifestyles through discussion. Decision-making activities and methods of coping with anxiety and depression will be covered. Other topics covered are interpersonal relations, study skills, library resources and career choices.

Components: Lecture

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. Instructor consent required.

Components: Independent Study

Prereqs/Coreqs: P: TEACHING 2130 or a comparable developmental psychology course (PSYCHLGY 3130 or PSYCHLGY 3230) and Junior standing

PHYSICAL EDUCATION AND HEALTH

Contact: Colleen McCabe
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Associate Professor:
Rod Zentner

Assistant Professor:
Colleen McCabe

Lecturers:
Tom Antczak
Pam Connolly
Ulrich Daueber
Lisa Emendorfer
Loren Finn
Jim Nickasch
Heather Riley
Scott Ringgenberg
Scott Soja

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 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 three-fold 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, multi-cultural 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..........................133 credit
General Education.............................48 credits
Major PE Studies..............................62 credits
Professional Education.....................23 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 GPA 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 2020</td>
<td>First Aid</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 2030</td>
<td>Health Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 2080</td>
<td>Movement Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 2320</td>
<td>Introduction to Physical Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 2330</td>
<td>Adventure Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 2410</td>
<td>Team Sports</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 2430</td>
<td>Adventure Education Practicum</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHYSED 2510</td>
<td>Individual Sports</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 3010</td>
<td>Technology in Health and Physical Education</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 3020</td>
<td>Physiology of Exercise</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHYSED 3040</td>
<td>Adapted Aquatics</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 3220</td>
<td>Teaching Sexuality and Drugs</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 3330</td>
<td>Lifetime Activities</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 3400</td>
<td>Outdoor Activities/Water Safety Instruction</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHYSED 3430</td>
<td>Teaching Exceptional Children in 3 cr</td>
<td></td>
</tr>
<tr>
<td>PHYSED 3440</td>
<td>Elementary/Middle School Physical Education Methods</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 3500</td>
<td>Health Methods</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHYSED 3510</td>
<td>Assessment and Screening</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 3720</td>
<td>Kinesiology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHYSED 3830</td>
<td>Perceptual Motor Learning</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 3850</td>
<td>Nutrition</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 3920</td>
<td>Emotional Health</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 4320</td>
<td>Consumer Health</td>
<td>2 cr</td>
</tr>
<tr>
<td>PHYSED 4330</td>
<td>Organization Administration and Curriculum of Physical Education and Health Education</td>
<td>4 cr</td>
</tr>
<tr>
<td>PHYSED 4450</td>
<td>Seminar in Community/Environmental Health Education</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Required courses (4 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 2340</td>
<td>Essentials of Human Anatomy and Physiology</td>
<td>4 cr</td>
</tr>
<tr>
<td>or</td>
<td>BIOLOGY 2140</td>
<td>Anatomy and Physiology I</td>
</tr>
</tbody>
</table>

Professional Education courses (25 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEACHING 2010</td>
<td>Computer Applications in Education</td>
<td>1 cr</td>
</tr>
<tr>
<td>TEACHING 3320</td>
<td>Psychology of Learning</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 3630</td>
<td>Encompassing the Exceptional Child</td>
<td>3 cr</td>
</tr>
<tr>
<td>PHYSED 4230</td>
<td>Methods in Middle/Secondary Education</td>
<td>3 cr</td>
</tr>
<tr>
<td>TEACHING 4940</td>
<td>Student Teaching</td>
<td>15 cr</td>
</tr>
</tbody>
</table>
State of Wisconsin 860 Licensure/Adapted Physical Education (10 credits):
The following courses will satisfy the Department of Public Instruction requirements for an 860 Physical Education/Special Education 3-year licensure

/licensure in adapted physical education):

PHYSED 3430 Teaching Exceptional Children 3 cr in Health and Physical Education
PHYSED 3510 Assessment and Screening 2 cr in Physical Education
PHYSED 3830 Perceptual Motor Learning 2 cr and Motor Development
PHYSED 4530 Practicum in Adapted Physical Education

Health Education Minor (29 credits)

Required courses:

PHYSED 2020 First Aid/Accident Prevention/ 2 cr Community CPR
PHYSED 2030 Health Education 2 cr
PHYSED 3220 Teaching Human Sexuality, 2 cr Alcohol and Other Drugs
PHYSED 3430 Teaching Exceptional Children 3 cr in Health and Physical Education
PHYSED 3500 Methods of Teaching Health Education 3 cr
PHYSED 3850 Nutrition 2 cr
PHYSED 3920 Emotional Health 2 cr
PHYSED 4320 Consumer Health 2 cr
PHYSED 4330 Organization, Administration 4 cr and Curriculum of Physical Education
PHYSED 4940 Seminar Community/ 3 cr Environmental Health Education

Science course (4 credits):

BIOLOGY 2340 Essentials of Human Anatomy 4 cr & Physiology
or
BIOLOGY 2140 Anatomy & Physiology I 4 cr

Health Promotion Emphasis

Total for Graduation..................................129 credits
General Education...........................................48 credits
Major PE Studies...........................................69 credits
Other required courses....................................12 credits

An overall GPA of 2.75 is required to qualify for an internship.

Required courses (47-50 credits):

PHYSED 1000 Fitness Assessment Management 1 cr
PHYSED 2010 Aerobics/Hydroaerobics 1 cr
PHYSED 2020 First Aid 2 cr
PHYSED 2030 Health Education 3 cr
PHYSED 2320 Introduction to Physical Education 2 cr
PHYSED 2510 Individual Sports 2 cr
PHYSED 3000 Level or above Elective 2 or 3 cr
PHYSED 3000 Level or above Elective 2 or 3 cr
PHYSED 3000 Level or above Elective 2 or 3 cr
PHYSED 3020 Physiology of Exercise 3 cr
PHYSED 3120 Stress Management at the Worksite 2 cr
PHYSED 3330 Lifetime Activities 2 cr
PHYSED 3360 Fitness Evaluation 1 cr
PHYSED 3380 Fitness Programming and 2 cr Prescription
PHYSED 3420 Health Promotion at the Worksite 2 cr
PHYSED 3500 Methods of Teaching Health 3 cr Education
PHYSED 3720 Kinesiology 3 cr
PHYSED 3850 Nutrition 2 cr
PHYSED 4230 Consumer Health 2 cr
PHYSED 4330 Organization, Administration 4 cr and Curriculum of Physical Education and Health Promotion
PHYSED 4520 Injury Prevention/Treatment 2 cr
PHYSED 4620 Advanced Athletic Training 2 cr

Recommended course work outside of Physical Education (15 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
TEACHING 2010 Computer Applications 1 cr in Education
and
PHYSED 3010 Technology in Health and 2 cr Physical Education

or

TEACHING 4020 Education Media Technology 2 cr

A minor must be approved by the advisor and the physical education program coordinator.

Recommended: Business administration, psychology or health education

Required internships (14-18 credits):

PHYSED 4850 Fitness Intern (I) 3 cr
PHYSED 4850 Fitness Intern (II) 3 cr
PHYSED 4850 Fitness Intern (off campus) 9-12 cr (summer only) 8 cr

Science course (4 credits):

BIOLOGY 2340 Essentials of Human Anatomy 4 cr & Physiology
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 GPA of 2.75 or better
3. Attainment of grade “C” or better in all health and physical education courses
4. Successful completion of Level I and II internships
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 satisfies the general education requirement for physical activity. 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 and Summer)

**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  1 credit
*Badminton*

**Components:** Laboratory  
**GE:** Physical Education

PHYSED 1140  1 credit
*Basketball*

**Components:** Laboratory  
**GE:** Physical Education

PHYSED 1150  1 credit
*Cycling*

**Components:** Laboratory  
**GE:** Physical Education

PHYSED 1190  1 credit
*Golf*

**Components:** Laboratory  
**GE:** Physical Education

PHYSED 1200  1 credit
*Self Defense*

**Components:** Laboratory  
**GE:** Physical Education

PHYSED 1210  1 credit
*Golf*
A continuation of 1110.

**Components:** Laboratory  
**GE:** Physical Education

PHYSED 1220  1 credit
*Hydroaerobics*

**Components:** Laboratory  
**GE:** Physical Education

PHYSED 1230  1 credit
*Jogging/Walking*

**Components:** Laboratory  
**GE:** Physical Education

PHYSED 1240  1 credit
*Racquetball*

**Components:** Laboratory  
**GE:** Physical Education

PHYSED 1250  1 credit
*Relaxation*

**Components:** Laboratory  
**GE:** Physical Education

PHYSED 1280  1 credit
*Personal Conditioning*

**Components:** Laboratory  
**GE:** Physical Education

PHYSED 1290  1 credit
*Racquetball/Badminton*

**Components:** Laboratory  
**GE:** Physical Education

PHYSED 1300  1 credit
*Personal Fitness*

**Components:** Laboratory  
**GE:** Physical Education

PHYSED 1310  1 credit
*Scuba Diving*

**Components:** Laboratory  
**GE:** Physical Education

PHYSED 1320  1 credit
*Advanced Scuba Diving*

**Components:** Laboratory  
**GE:** Physical Education
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit(s)</th>
<th>Description</th>
<th>Components</th>
<th>GE</th>
</tr>
</thead>
</table>
| PHYSED 1330  | Cross-Country Skiing                       | 1 credit   | Components: Laboratory
GE: Physical Education                                                                                                                  |                    |          |
| PHYSED 1340  | Soccer                                     | 1 credit   | Components: Laboratory
GE: Physical Education                                                                                                                      |                    |          |
| PHYSED 1350  | Archery                                    | 1 credit   | Components: Laboratory
GE: Physical Education                                                                                                                     |                    |          |
| PHYSED 1360  | Canoeing                                   | 1 credit   | Course will explore and teach values of canoeing, rules of safety, demonstration and practice of canoeing and go on an overnight trip on the Wisconsin or Kickapoo River. |
Components: Laboratory
GE: Physical Education                                                  |                    |          |
| PHYSED 1370  | Dance Tech/Practice (Ballroom, Latin, Country) | 1 credit   | Components: Laboratory
GE: Physical Education                                                                                                                      |                    |          |
| PHYSED 1380  | Triathlon Training                         | 1 credit   | Components: Laboratory
GE: Physical Education                                                                                                                     |                    |          |
| PHYSED 1400  | Fitness Assessment and Awareness/Activity   | 0.5 - 1 credit | components: Laboratory
GE: Physical Education                                                                                                                   |                    |          |
| PHYSED 1410  | Swimming                                   | 1 credit   | Components: Laboratory
GE: Physical Education                                                                                                                     |                    |          |
| PHYSED 1430  | Tennis                                     | credit     | Components: Laboratory
GE: Physical Education                                                                                                                     |                    |          |
| PHYSED 1440  | Volleyball                                 | 1 credit   | Components: Laboratory
GE: Physical Education                                                                                                                     |                    |          |
| PHYSED 1450  | Wallyball/Volleyball                       | 1 credit   | Components: Laboratory
GE: Physical Education                                                                                                                     |                    |          |
| PHYSED 1460  | Yoga/Pilates                               | 1 credit   | 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                                    | 1 credit   | Components: Laboratory
GE: Physical Education                                                                                                                     |                    |          |
| PHYSED 1620  | Aikido                                     | 1 credit   | Components: Laboratory                                                                                                                        |                    |          |
| PHYSED 1630  | Self-Defense                               | 1 credit   | Components: Laboratory                                                                                                                      |                    |          |
| PHYSED 1640  | Downhill Skiing                            | 1 credit   | Components: Laboratory                                                                                                                      |                    |          |
| PHYSED 1710  | Weight Training                            | 1 credit   | Components: Laboratory                                                                                                                      |                    |          |
| PHYSED 1720  | Intermediate Weight Training               | 1 credit   | Components: Laboratory                                                                                                                      |                    |          |
| PHYSED 2010  | Aerobics/Hydroaerobics                     | 1 credit   | Components: Laboratory                                                                                                                      |                    |          |
| PHYSED 2020  | Methods in Health, Nutrition and Physical Education | 2 credits   | 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 2030  | Health Education                           | 2 credits   | 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  | Coaching Principles and Sport First Aid     | 4 credits   | This course is required by the state of Wisconsin for individuals who want to coach and are non-teaching majors. (Summer)                                                                               |
Components: Lecture                                                                                                                          |                    |          |
| PHYSED 2060  | Movement Education                         | 1 credit   | 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  2 credits  
**Introduction to Physical Education and Health Promotion**
Introduction to skills basic to the teaching of physical education; career orientation; teaching, physical education majors, minors and concentrations in athletic coaching students only.  
**Components:** Lecture

PHYSED 2330  2 credits  
**Adventures 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 2380  1 credit  
**Golf/Tennis/Archery**
Emphasis on fundamentals of the golf swing and techniques used to instruct middle, junior and high school students in the mechanics of the swing; extensive coverage of rules and proper etiquette. Knowledge to provide an understanding of the history, rules, strategies, analysis and teaching of tennis skill techniques. Knowledge to provide understanding of safety rules, history, shooting, scoring analysis of skill techniques and the teaching of archery.  
**Components:** Laboratory

PHYSED 2390  1 credit  
**Weight Training/Self-Defense**
Weight training techniques and instructional methods including principles of strength and conditioning and knowledge to enable the student to evaluate and create programs for specific populations. In self defense, the student will actively participate in defense techniques effective against an armed attacker.  
**Components:** Laboratory

PHYSED 2410  2 credits  
**Team Sports**
During this course, physical education majors will develop an understanding of the teaching methods, cues and assessments used in teaching team sports to middle level and high school students, as they relate to the standards of National Association for Sport and Physical Education (NASPE). Examples of individual sports which could be covered: baseball/softball, basketball, football, floor hockey, lacrosse, soccer, volleyball, water polo.  
**Components:** Lecture

PHYSED 2430  3 credits  
**Adventure Education Practicum**
This practicum requires the Physical Education Teacher candidates to assist in the facilitation of groups who attend the 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 2440  1 credit  
**Teaching Basketball**
Principles and techniques needed to instruct students in the game of basketball. Emphasis on fundamentals, strategy, conditioning and coach/player relationships.  
**Components:** Laboratory

PHYSED 2450  1 credit  
**Relaxation/STress Management/Aerobics**
Basketball or wrestling coaching, relaxation/stress management/aerobics, gymnastics, tumbling.  
**Components:** Laboratory

PHYSED 2470  1 credit  
**Tumbling/Gymnastics**
The purpose of this class is to introduce tumbling skills and various pieces of apparatus so that students will be able to teach these skills in an institutional setting.  
**Components:** Laboratory

PHYSED 2510  2 credits  
**Individual Sports**
During this course, physical education majors will develop an understanding of the teaching methods, cues and assessments used in teaching individual sports to middle level and high school students, as they relate to the standards of National Association for Sport and Physical Education (NASPE). Examples of individual sports which could be covered: badminton, bowling, golf, martial arts, racquet sports, tennis, track and field, wrestling.  
**Components:** Lecture

PHYSED 3010  2 credits  
**Technology in Health and Physical Education**
This course will 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.  
**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: Admission to the School of Education and BIOLOGY 2140

PHYSED 3030  3 credits  
**Philosophy, Curriculum and Administration of Health Education**
Philosophy and administration of health education along with curriculum development.  
**Components:** Lecture  
**Prereqs/Coreqs:** P: PHYSED 2030
Adapted Aquatics
Students are provided the opportunity to work with children/adults with disabilities in the area of 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 instructor evaluation of teaching methods.

Prereqs/Coreqs: P: PHYSED 3430/5430

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

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: Admissions to the School of Education and PHYSED 2030

Lifetime Activities
For the physical education teacher candidate to experience, implement and instruct lifetime activities in their physical education curriculum.

Components: Lecture

Teaching Children with Exceptional Abilities in Health and Physical Education
Knowledge provided regarding conditions which impede psycho-motor 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

Outdoor Activities/Water Safety Instruction (WSI)

Components: Lecture

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

Teaching Children with Exceptional Abilities in Health and Physical Education

Components: Laboratory
Prereqs/Coreqs: P: Admission to the School of Education
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 3620 2 credits
Physical Education for Elementary Schools
The objectives, methods and organization of physical education in the elementary school.
   Components: Lecture
   Prereqs/Coreqs: P: Admission to the School of Education and TEACHING 1230

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

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 3860 1 credit
Nutrition in Human Performance
To provide an overview of the role nutrition plays relative to human performance. Emphasis is placed upon dietary evaluation and recommendation regarding nutrient intake and weight management.
   Components: Lecture
   Prereqs/Coreqs: P: Admission to the School of Education

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 4010 3 credits
Physical Education Workshop
The principles and techniques applicable to coaching inter-school activities.
   Components: Lecture

PHYSED 4020 2 credits
Psychology of Coaching
The principles and techniques applicable to coaching inter-school activities.
   Components: Laboratory

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 4300 1 credit
Soccer/Speedball/Flag Football
Integration of organizational procedures, teaching techniques, program planning progressions, coaching (soccer), lesson planning relating to soccer, speedball and flag football.
   Components: Laboratory

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 1 credit
Water Safety Instructor
Instruction in teaching Red Cross swimming lessons and water safety courses. Red Cross certification as water safety instructor.
   Components: Laboratory
PHYSED 4420 1 - 2 credits
**Practicum in Athletic Coaching**
Actual experience related to the coaching of an athletic team under the leadership of an experienced coach and teacher.
  **Components:** Field Studies

PHYSED 4430 1 - 3 credits
**Current Issues in Health and Physical Education**
Study of current topics in health and physical education.
  **Components:** Lecture

PHYSED 4520 2 credits
**Injury Prevention and Treatment**
Athletic training will consist of instruction in taping techniques for athletic injuries. It will also include recognition, treatment and rehabilitation of common athletic injuries and instruction in the use of protective sports equipment.
  **Components:** Lecture
  **Prereqs/Coreqs:** P: Admission to the School of Education and BIOLOGY 2140

PHYSED 4530 3 credits
**Practicum in Adapted Physical Education**
Students are provided the opportunity to work with children with disabilities in an educational setting.
  **Components:** Field Studies
  **Prereqs/Coreqs:** P: Admission to the School of Education, PHYSED 3430, PHYSED 3510 and TEACHING 3320

PHYSED 4620 2 credits
**Advanced Athletic Training**
Deals with sport specific injuries, their prevention and treatment and rehabilitation. The course also includes evaluation of injuries and the use of modalities in treatment.
  **Components:** Lecture
  **Prereqs/Coreqs:** P: PHYSED 4520

PHYSED 4840 1 - 4 credits
**Athletic Training/Rehabilitation Internship**
An internship under the supervision of a certified athletic trainer.
  **Components:** Field Studies
  **Prereqs/Coreqs:** P: PHYSED 4620

PHYSED 4850 9 - 12 credits
**Wellness-Fitness Internship**
An internship at the UW-Platteville fitness center, ph ed fitness lab, a fitness club, corporate fitness program or a YMCA/YWCA.
  **Components:** Field Studies

PHYSED 4920 2 credits
**Psychological and Social Health**
Course designed to give the prospective teacher an insight into the purpose of health appraisals of school children and the use of health records in counseling.
  **Components:** Lecture
  **Prereqs/Coreqs:** P: Admission to the School of Education

PHYSED 4940 3 credits
**Seminar in Community and Environmental Health Education**
Problems in health education. Devised to meet needs of the individual student in regard to health service, environment and instruction.
  **Components:** Seminar
  **Prereqs/Coreqs:** P: Admission to the School of Education

PHYSED 4960 1 - 3 credits
**Independent Study in Physical Education**
Department consent required.
  **Components:** Independent Study

PHYSED 4990 1 - 3 credits
**Independent Study in Health Education**
Department consent required.
  **Components:** Independent Study
Abel-Aal, Hisham A. (2004); Assistant Professor, General Engineering, Department of General Engineering; B.Sc., M.Sc., Alexandria University, Egypt; M.S., Tuskegee University; Ph.D., University of North Carolina at Charlotte.

Albers, Mark A. (2004); Assistant Professor, Industrial Studies, Department of Industrial Studies; B.S., M.S., University of Wisconsin-Platteville.

Alborn-Yilek, Susan D. (2005); Coordinator, Office of Special Programs, School of Education; B.A., Buena Vista College; M.A., Drake University.

Alcalay, Eugene (2005); Assistant Professor, Music, Department of Performing and Visual Arts; B.M., Indiana University School of Music; M.M., D.M.A., The Juilliard School.

Allen, Karen O. Bennett (1981); Associate Professor, Speech, Department of Performing and Visual Arts; B.S., University of North Alabama; M.A., University of Montevallo.

Allsup, Vernon Carl (1989); Professor, Ethnic Studies, Ethnic Studies Program; Director, Ethnic Studies Program; B.A., M.A., Ph.D., University of Texas Austin.

Almqvist, James N. (1998); Lecturer, General Engineering, Department of General Engineering; B.S., M.S., University of Wisconsin-Madison.

Anderson, David L. (2007); Laboratory Manager, College of Engineering, Mathematics and Science; B.S., University of Wisconsin-Platteville.

Anderson, Donna L. (2003); Director, Institute for Study Abroad Programs; B.A., Luther College; M.A., Loras College.

Anderson, Laura J. (1996); Associate Professor, Foreign Languages (French & 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; Diplomate of the American Academy of Environmental Engineers.

Anderson, Michael F. (2006); Associate Professor, School of Education; Director, School of Education; B.S., M.S.E., Ph.D., University of Nebraska-Lincoln.

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Baker, Terry L. (1980); Lecturer, Physics, Department of Chemistry and Engineering Physics; B.S., University of Wisconsin Platteville.

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); Assistant Director, Student Union, Student Affairs; B.A., Pittsburgh State University; M.S.E., University of Nebraska-Lincoln.

Banachowski-Fuller, Cheryl A. (1997); Associate Professor, Criminal Justice, Department of Criminal Justice; B.S., M.A., University of Toledo; Ph.D., North Carolina State University.

Barrett, Barbara A. (1999); Associate Professor, Mathematics, Department of Mathematics; B.S., Bradley University; M.S., Ph.D., Iowa State University.

Barraclough, Dominic J. (1999); Associate 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); Assistant Professor and State Nutrient Management Specialist, Agriculture, School of Agriculture; B.S., University of Wisconsin-Platteville; M.S., Ph.D., Purdue University.

Bayraktar, Tuba (2006); Assistant 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.

Beading, Laura L. (2007); Assistant Professor, English, Department of Humanities; B.F.A., Bowling Green State University; M.A., Ph.D., Purdue University.

Becker, Debra R. (1980); Senior Outreach Specialist, Business Administration Program at a Distance; B.S., University of Wisconsin-Platteville.

Benish, Steven G. (2005); Assistant Professor, Counselor Education, School of Education; B.S., M.S.E., University of Wisconsin-Platteville.

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., University of Wisconsin-Madison.

Bernhardt, Dale K. (1979); Director, Student Support Services; B.S., M.S.E., University of Wisconsin Platteville.

Bernhardt, Kevin J. (1996); Professor, Agricultural Industries, School of Agriculture; B.S., Iowa State University; M.S., North Carolina State University; Ph.D., University of Nebraska-Lincoln.

Bierman, Kallie (2005); Associate Administrative Advisor, Admission and Enrollment Services, Student Affairs; B.S., University of Wisconsin-Platteville.
Bies, Gregory R. (1997); Information Processing Consultant, Information Technology; B.S., University of Wisconsin-Platteville.

Blevins, Sarah (2007); Financial Aid Counselor and University Scholarship Coordinator, Financial Aid, Student Affairs; B.S., University of Wisconsin-Platteville.

Bockhop, Richard L. (2002); Assistant Professor, Agriculture, School of Agriculture; B.S., M.S.E., University of Wisconsin-Platteville; Ph.D., Iowa State University.

Bonyne, Caroline (2006); Assistant Coach, Intercollegiate Athletics; B.A., Northwood University.

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); Associate Professor, Industrial Studies, Department of Industrial Studies; B.S., Winona State University; M.S., University of Wisconsin-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., University of Wisconsin Madison.

Brady, Russell (2006); Associate Outreach Specialist, Institute for Study Abroad; B.A., University of La Crosse; M.A., Webster University.

Branson, Stephanie R. (1990); Professor, English, Department of Humanities; Chair, Department of Humanities; B.A., University of Wisconsin Madison; M.A., Tufts University; Ph.D., University of Tulsa.

Braun y Harycki, David M. (2000); Associate Professor, Education, School of Education; B.S., University of Wisconsin-Madison; M.S.E., University of Wisconsin-Platteville; D.Ed., University of Nebraska-Lincoln.

Brekenridge, Ryanne (2007); Associate Student Service Specialist, Department of Athletics; B.A., St. Ambrose University; M.A., Loras College.

Bromley, Patricia L. (1992); Associate Professor, Psychology, Department of Psychology; M.S.E. Adult Education Coordinator, School of Education; B.A., University of Wisconsin Madison; M.S.E., University of Wisconsin Platteville; Ph.D., University of Wisconsin-Madison.

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Brooke, Wendy A. (2007); Assistant Professor, Business Administration, Department of Business and Accounting; B.S., Missouri State University; M.S., University of Wisconsin-Platteville.

Broussard, Rosalyn S. (1996); Associate Professor, Political Science, Department of Social Sciences; B.A., Southern University; M.A., Ph.D., State University of New York at Binghamton.

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.

Bunting, Edward A. (1981); Associate Professor, English, Department of Humanities; B.A., University of Wisconsin Madison; M.A., Marquette University.

Bunting, Patricia A. (1983); Professor, Mathematics, Department of Mathematics; B.S., Brooklyn College; M.A., New York University.

Bunting, Chris (1993); Associate Professor, English, Department of Humanities; Chair, Department of Humanities; B.A., University of Wisconsin Madison; M.A., Tufts University; Ph.D., University of Tulsa.

Bunting, John R. (1990); Professor, English, Department of Humanities; Chair, Department of Humanities; B.A., University of Wisconsin Madison; M.A., Tufts University; Ph.D., University of Tulsa.

Bunting, Linda H. (2000); Associate Professor, Industrial Studies, Department of Industrial Studies; B.S., Winona State University; M.S., University of Wisconsin-Stout; Ed.D., Texas A & M University.

Bunting, Scott (1992); Associate Professor, English, Department of Humanities; Chair, Department of Humanities; B.A., University of Wisconsin Madison; M.A., Tufts University; Ph.D., University of Tulsa.

Bunting, Thomas S. (1991); Associate Professor, Political Science, Department of Social Sciences; B.A., Southern University; M.A., Ph.D., State University of New York at Binghamton.

Butterfield, Max F. (1992); Associate Professor, Political Science, Department of Social Sciences; B.A., Southern University; M.A., Ph.D., State University of New York at Binghamton.

Bunting, William A. (1981); Associate Professor, English, Department of Humanities; Chair, Department of Humanities; B.A., University of Wisconsin Madison; M.A., Tufts University; Ph.D., University of Tulsa.

Bunting, William R. (1990); Professor, English, Department of Humanities; Chair, Department of Humanities; B.A., University of Wisconsin Madison; M.A., Tufts University; Ph.D., University of Tulsa.

Butler, Linda M. (1992); Associate Professor, Political Science, Department of Social Sciences; B.A., Southern University; M.A., Ph.D., State University of New York at Binghamton.

Butler, Rosemary C. (1993); Associate Professor, English, Department of Humanities; Chair, Department of Humanities; B.A., University of Wisconsin Madison; M.A., Tufts University; Ph.D., University of Tulsa.

Butler, Thomas A. (1991); Associate Professor, Political Science, Department of Social Sciences; B.A., Southern University; M.A., Ph.D., State University of New York at Binghamton.

Butler, William R. (1990); Professor, English, Department of Humanities; Chair, Department of Humanities; B.A., University of Wisconsin Madison; M.A., Tufts University; Ph.D., University of Tulsa.

Bunte, Alison B. (1994); Professor, Education, School of Education; Assistant Dean, College of Liberal Arts and Education; B.S., Southwest Missouri State University; M.A., University of Missouri-Columbia; Ph.D., Southern Illinois University.

Burns, Teresa M. (1994); Associate Professor, English, Department of Humanities; Director, Women’s Studies Program; B.A., M.A., University of Florida; Ph.D., University of Houston.

Burton, Coree K. (2007); Associate Residence Hall Manager, Student Housing, Student Affairs; B.A., Central Michigan University.

Busch, Dennis L. (2005); Associate Researcher, Pioneer Farm; B.S., M.S., University of Wisconsin-Platteville; Ph.D., University of Minnesota.

Butts, Carol Sue (1998); Professor, Education, School of Education; Provost and Vice Chancellor for Academic Affairs; B.S., Minot State University; M.S., Western Oregon University; Ed.D., University of Northern Colorado.

Calceterra, Robert A. (1983); Professor, Mathematics, Department of Mathematics; B.S., Brooklyn College; M.A., Ph.D., University of Wisconsin Madison.

Caploe, Joseph G. (1997); Associate Professor, Music, Department of Performing and Visual Arts; B.A., San Jose State; M.F.A., California Institute of the Arts.

Carlos-Cueller, Sofia (2004); Lecturer, Chemistry, Department of Chemistry and Engineering Physics; B.S., M.S., University of Iowa.

Carlson, Brad M. (2007); Lecturer, Theater, Department of Performing and Visual Arts; B.A., University of Northern Iowa.

Carey, Delbert P. (2005); Lecturer, History, Department of Social Sciences; B.S., University of Wisconsin-Platteville; M.S., Marquette University.

Carns, Sharon H. (2001); Developmental Skills Specialist, Student Support Services; B.S., University of Wisconsin-Platteville; M.S., University of Wisconsin-Stout.

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., University of Wisconsin 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.

Chellewold, David A. (2000); Lecturer, Education, School of Education; B.A., Luther College; M.S.E., University of Wisconsin-Platteville.
Chislom, 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., University of Wisconsin-Stevens Point; M.S., University of Wisconsin-Madison.

Ciesielski, Dennis J. (1997); Associate Professor, English, Department of Humanities; B.A., Arkansas College; M.A., Ph.D., Southern Illinois University.

Clements, Mark A. (1997); Development Manager and Database Administrator; Information Technology; B.S., University of Wisconsin-Platteville.

Clifton, Joseph M. (1984); Professor, Software Engineering, Department of Computer Science and Software Engineering; B.S., University of Wisconsin-Platteville; Ph.D., Iowa State University.

Clough, Jill M. (1985); Professor, Industrial Engineering, Department of Mechanical and Industrial Engineering; B.S., M.S., Ph.D., University of Iowa.

Coe, Gwendolyn D. (1992); Professor, Education, School of Education; B.S., Pittsburgh State University; M.A., University of Northern Colorado; Ph.D., University of Missouri-Columbia.

Collins, Benjamin V.C. (2000); Associate Professor, Mathematics, Department of Mathematics; B.A., Central College; M.S., University of Michigan-Ann Arbor; Ph.D., University of Wisconsin-Madison.

Combs, Paul W. (2003); Lecturer, Physical Education, School of Education; Coach, Intercollegiate Athletics; B.A., Ripon College.

Compton, Michael E. (1995); Professor, Agricultural Sciences, School of Agriculture; A.A.S., Danville Area Community College; B.S., M.S., Southern Illinois University; Ph.D., Virginia Polytechnic University.

Concannon, Kevin (2005); Assistant Professor, English, Department of Humanities; B.S., University of California at Los Angeles; M.A., Ph.D., University of California at Irvine.

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., University of Wisconsin Madison; M.S., University of Wisconsin Whitewater; M.P., University of Wisconsin-Madison.

Cool, Andrea M. (1999); Lecturer, English, Department of Humanities; B.A., University of Wisconsin-Platteville; M.A., University of Missouri-Columbia.

Cooley, Dennis R. (1998); Assistant Chancellor for University Advancement; B.S., University of Wisconsin-La Crosse.

Cooper, David T. (2005); Assistant Professor, Music, Department of Performing and Visual Arts; B.M., Lawrence University; M.M., University of Akron; M.M.A., University of Wisconsin-Madison.

Cornett, Catherine A. (2003); Lecturer, Biology, Department of Biology; B.S., University of Wisconsin-River Falls; M.S., Iowa State University.

Cornett, Charles R. (2001); Associate Professor, Chemistry, Department of Chemistry and Engineering Physics; Chair, Department of Chemistry and Engineering Physics; B.S., King College; Ph.D., University of Kentucky.

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., University of Wisconsin-Platteville.

Cramer, Robert G. (2007); Assistant Chancellor for Administrative Services; B.A., Alma College; M.S., M.A., University of Wisconsin-Madison.

Crawford, LeVon (2006); Assistant Coach, Intercollegiate Athletics; Advisor, University Career Planning and Placement Services; Student Affairs; B.S., University of Wisconsin-Platteville.

Curras, Christina J. (2000); Associate Professor, Civil Engineering, Department of Civil and Environmental Engineering; B.S., M.S., Ph.D., University of California-Davis.

Daeuber, Ulz (2001); Lecturer, Physical Education, School of Education; Assistant Coach, Intercollegiate Athletics; B.S., M.S., Heidelberg University; M.S.E., University of Wisconsin-Platteville.

Dahlquist, C. Daniel (1997); Associate Professor, Speech, Department of Performing and Visual Arts; B.S., M.F.A., Ph.D., Southern Illinois University.

Dalecki, Michael G. (1991); Professor, Sociology, Department of Social Sciences; B.S., University of Wisconsin Platteville; M.S., Texas Christian University; Ph.D., Pennsylvania State University.

Dalsing, Diedre L. (2003); Counselor, Counseling Services; Student Affairs; B.S., University of Wisconsin-Madison; M.A., Loras College.

Dargel, Dan L. (1992); Information Processing Consultant, Information Technology; B.S., University of Wisconsin-Platteville.

Daus, Barbara M. (1987); Special Assistant to the Chancellor; B.S., M.S.E., University of Wisconsin Platteville.

Davis, Sara L. (1997); Associate Outreach Specialist, Distance Learning Center; B.A., University of Wisconsin-Platteville.

Davis, Angela (2004); Financial Aid Counselor and Student Employment Coordinator, Financial Aid; Student Affairs; B.A., Clarke College.

Day, Susan Savage (2003); Lecturer, Music, Department of Performing and Visual Arts; B.A., University of Wisconsin-Platteville; M.M., M.D.A., University of Wisconsin-Madison.

Deis, Timothy M. (1999); Associate Professor, Mathematics, Department of Mathematics; B.S., M.A., Mankato State University; M.S., Ph.D., University of Nebraska-Lincoln.

DeLaRosby, Hal (2005); Residence Hall Manager, Student Housing; Student Affairs; B.A., Gustavus Adolphus College; M.S., Western Illinois University.

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.

Dennis, Gregory J. (2000); Lecturer, Music, Department of Performing and Visual Arts; B.S., University of Wisconsin-Platteville; M.M., University of Michigan.

Diesing, Stacey M. (2005); Advisor and Marketing Manager, Prospective Student Services, Admission and Enrollment Management, Student Affairs; B.A., Loras College.

Diesing, William (2005); Assistant Coach, Intercollegiate Athletics; B.A., M.A., Loras College.

Donahoe, Jessica J. (1999); Associate Academic Librarian, Karmann Library; B.A., University of Wisconsin-Madison; M.A., School of Library and Information Studies, University of Wisconsin-Madison.

Doser, Linda R. (2004); Lecturer, Education, School of Education; B.S., M.S.E., University of Wisconsin-Platteville.

Drake, Dawn M. (1987); Executive Director, Alternative Delivery Systems; B.S., University of Wisconsin Platteville; M.B.A., University of Wisconsin Whitewater.

Dreessens, Kari M. (2000); Interim Advisor, Advising and Career Exploration Services, Student Affairs; Associate Admission Advisor, Admission and Enrollment Services, Student Affairs; B.S., University of Wisconsin-Platteville.

Dreessens, Vickie L. (1994); Director, University Health Services; R.N., Mercy School of Nursing; Nurse Prac., University of Wisconsin-Milwaukee.

Drefcinski, Shane D. (1997); Associate Professor, Philosophy, Department of Humanities; Director, General Education and Assessment Coordinator; 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.

Duewer, Elizabeth A. (1981); Senior Lecturer, Biology, Department of Biology; B.S., M.S., University of Illinois at Urbana; Ph.D., University of Arizona.

Dunn, Rahsaan J. (2007); Advisor, Multicultural Educational Resource Center; B.A., University of Wisconsin-Platteville.

Dutelle, Arie W. (2004); Lecturer, Criminal Justice, Department of Criminal Justice; B.S., University of Wisconsin-La Crosse; M.S., National University.

Duwe, Todd A. (2000); Director, Technical and Event Services, University Centers, Auxiliary Services; B.S., University of Wisconsin-Platteville.

Egley, Richard W. (1979); Dean of Students, Student Affairs; B.S., M.Ed., Pennsylvania State University.

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., University of Wisconsin-Madison.

Emendorfer, Lisa A. (2001); Lecturer, Physical Education, School of Education; B.A., William Penn College; M.S.E., University of Wisconsin-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.

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Erickson, Paul J. (1996); Associate University Relations Specialist, University Public Relations/Athletics; B.A., University of Wisconsin-Eau Claire.

Evensen, Harold T. (1999); Associate Professor, Engineering Physics, Department of Chemistry and Engineering Physics; B.S., Michigan Technological University; M.S., Ph.D., University of Wisconsin-Madison.

Everson, Mark C. (1997); Associate Professor, Foreign Languages (Spanish), Department of Humanities; B.A., M.A., Middlebury College; Ph.D., University of Wisconsin-Madison.

Ewing, Stanley E. (2001); Lecturer, Mathematics, Department of Mathematics; B.S., University of Wisconsin-Platteville; M.A., Western Michigan University.

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Farrelly, Ann D. (2006); Assistant Professor, Theater, 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., University of Wisconsin Platteville.

Faymonville, Carmen (1998); Associate Professor, English, Department of Humanities; B.A., Ripon College; M.A., University of Cologne, Germany; Ph.D., Loyola University.

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); Lecturer, Sociology, Department of Social Sciences; B.A., M.S., University of Wisconsin-Madison.

Fidrych, Robert A. (1980); Professor, Business Administration, Department of Business and Accounting; B.A., M.A., University of Connecticut; J.D., Suffolk Law School; L.L.M., University of Missouri Kansas City.
Fields, Kristina (2007); Assistant Professor, Civil Engineering, Department of Civil and Environmental Engineering; B.S., M.S., Ph.D., Michigan Technological University.

Finn, Lorin D. (2003); Assistant Coach, Intercollegiate Athletics; Lecturer, Physical Education, School of Education; B.S., Brigham Young University; M.S., Utah State University.

Foley, Jennifer (2007); Instructional Program Manager, College of Engineering, Mathematics and Science; A.S., University of Wisconsin-Richland; B.A., Concordia University; M.S.E., University of Wisconsin-Platteville.

Ford, Duane M. (1999); Professor, Agriculture, School of Agriculture; Dean, College of Business, Industry, Life Science and Agriculture; B.S., University of Illinois at Urbana-Champaign; M.S., Ph.D., Iowa State University.

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 & Engineering Physics; B.S., University of Wisconsin-Platteville.

Frederick, Kari S. (1999); Laboratory Program Manager, Department of Chemistry and Engineering Physics; B.S., University of Wisconsin-Platteville.

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Fuschino, Vincenzo (2007); Coach, Intercollegiate Athletics; B.A., State University of New York at Buffalo; M.A., University of Wisconsin-Madison.

Gard, Jeffrey (2006); Assistant Coach, Intercollegiate Athletics; Admission Advisor, Admission and Enrollment Services; B.S., M.S.E., University of Wisconsin-Platteville.

Garrity, Colleen K. (1992); Director, Radio and Television, Television Services; B.S., University of Wisconsin Platteville; M.S., Boise State University.

Gates, Elizabeth A. (2000); Associate Professor, Psychology; Department of Psychology; Chair, Department of Psychology; B.A., Grinnel College; M.A., Ph.D., University of Iowa.

Gavin, Donna M. (1996); Lecturer; Computer Science, Department of Computer Science and Software Engineering; B.A., St. Xavier College; M.S., Nova Southeastern University of Florida.

Gill, Mohaninder S. (1980,1983); Professor, Computer Science, Department of Computer Science and Software Engineering; Chair, Department of Computer Science and Software Engineering; B.S., Mahendra College (India); M.S., Panjabi University (India); M.S., Syracuse University.

Gillespie, Deborah A. (1982); Associate Professor, English, Department of Humanities; B.A., M.A., Michigan State University; M.F.A., Bennington College.

Gimski, Gordon V. (2001); Lecturer, Mathematics, Department of Mathematics; B.S., University of Wisconsin-Platteville; M.Nat.Sc., University of Oklahoma.

Goomey, John R. (2000); Lecturer, Electrical Engineering, Department of Electrical Engineering; B.S., B.S., University of Wisconsin-Milwaukee; M.S., University of Wisconsin-Madison.

Gottlieb, Rebecca I. (1997); Lecturer, English, 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., University of Wisconsin-Milwaukee; M.M.E., University of Wisconsin-Madison.

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Griswold, Amy M. (2006); Associate Outreach Specialist, Distance Learning Center; B.A., University of Wisconsin-Platteville.

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Gusser, 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); Interim 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); Assistant 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.

Hagedorn, Patrick G. (1996); Associate Professor, Foreign Languages (German), Department of Humanities; B.A., M.A., Ph.D., University of Wisconsin-Madison.

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<tr>
<td>Yang Ling (Dave) Wang</td>
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A Definition Primer for University Students

We at the university use the following terms on a daily basis in describing academics and situations surrounding those we serve. We take the language we use for granted because we generally understand the terminology. If you already know our lingo, disregard this glossary of terms.

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 course work. 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 6 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 GPA 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 (GPA)
The numeric value assigned to the earned letter grade for each class taken. The GPA 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
Your UWP identification (I.D.) card is called the Pioneer Passport. This card functions as your meal access card for dining services if you are 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 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 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 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.

Transcript
The official record of a student's permanent academic record.

Transfer Credit
Academic credit earned at another institution and accepted toward a degree or program at UW-Platteville.

Tuition and Fees
Tuition is the monetary remuneration for courses taken. Fees are separate and are for the purpose of parking, residence halls fees, meal plan fees, special events, approved building projects, etc.
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