

2003-2005 CATALOG



University of Wisconsin-Stevens Point



University of Wisconsin- Stevens Point Undergraduate and Graduate Catalog 2003-2005

At the University of Wisconsin-Stevens Point, changing lives is our mission and student-centered excellence is our highest priority. The curriculum is designed to meet your academic needs.

In compiling our catalog we have used the most current and accurate information available to us. However, we reserve the right to change any of the information in this catalog at any time and without giving prior notice. When the UW System or UW-Stevens Point campus deletes or revises any of the information in this catalog, the changes take effect as soon as they are approved.

To keep up-to-date with changes in curriculum that may affect requirements in your program and the length of time it takes you to graduate, be sure to check with your adviser regularly during your college career. You may also check the catalog web site: www.uwsp.edu/news/uwspcatalog.

The provisions of this catalog DO NOT constitute a contract between the student and the university.

Mary Sipiorski, Catalog Editor



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Accreditation

UW-Stevens Point is accredited by The Higher Learning Commission, a member of the North Central Association, to offer undergraduate college programs leading to the bachelor's degree and graduate programs leading to the master's degree. They can be reached at:

The Higher Learning Commission
North Central Association of Colleges and Schools
30 North LaSalle Street, Suite 2400
Chicago, Illinois 60602-2504
312-263-0456; 800-621-7440; Fax 312-263-7462
www.ncahigherlearningcommission.org

Individual departments and programs within UWSP are also accredited by the:

American Chemical Society
American Speech, Language and Hearing Association
Commission on Accreditation for Dietetics Education of the
American Dietetic Association
Foundation for Interior Design Education Research
National Accrediting Agency for Clinical Laboratory Sciences
National Association of Schools of Art and Design
National Association of Schools of Dance
National Association of Schools of Music
National Association of Schools of Theatre
Society of American Foresters

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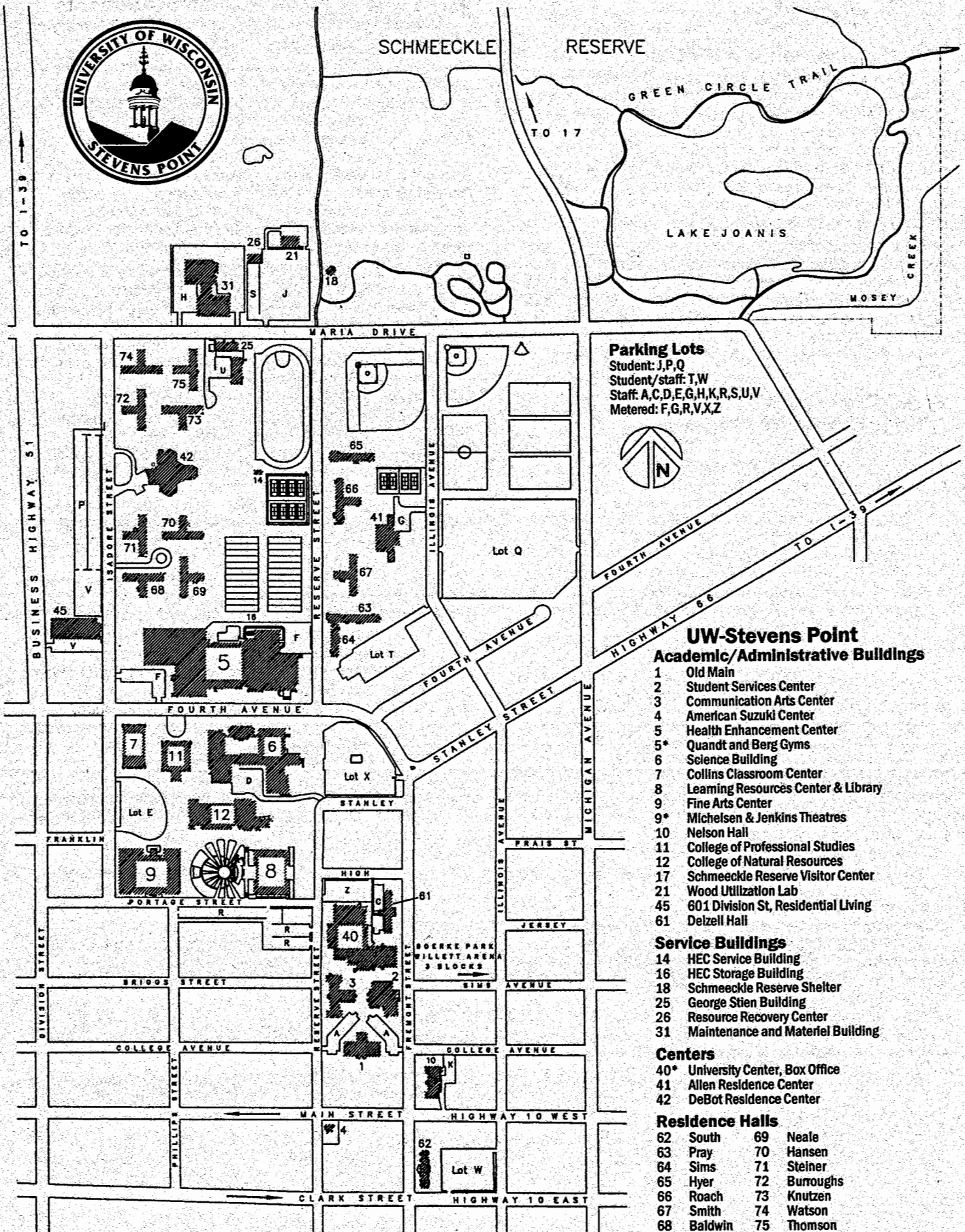
David G. Walsh, Madison

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Calendar

2003-04	2004-05	First Semester
Sep 2	Sep 2	Classes begin
Nov 26, 6pm	Nov 24, 6pm	Thanksgiving recess begins
Dec 1	Nov 29	Classes resume
Dec 12	Dec 16	Last day of classes
Dec 14	Dec 19	Study day
Dec 13	Dec 19	Commencement
Dec 15-19	Dec 17-22	Final exams
2003-04	2004-05	Second Semester
Jan 2	Jan 3	Winterim begins
Jan 16	Jan 19	Winterim ends
Jan 20	Jan 24	Classes begin
Mar 19, 6pm	Mar 18, 6pm	Spring recess begins
Mar 29	Mar 28	Classes resume
May 7	May 13	Last day of classes
May 8	May 14	Study day
May 10-14	May 16-20	Final exams
May 16	May 22	Commencement
2004	2005	Summer Session
May 24	May 23	Three-week session begins
Jun 14	Jun 13	Eight-week session begins
Jul 5	Jul 4	Holiday
Aug 4	Aug 3	Last day of classes
Aug 5-6	Aug 4-5	Final exams



Parking Lots
 Student: J,P,Q
 Student/staff: T,W
 Staff: A,C,D,E,G,H,K,R,S,U,V
 Metered: F,G,R,V,X,Z



UW-Stevens Point Academic/Administrative Buildings

- 1 Old Main
- 2 Student Services Center
- 3 Communication Arts Center
- 4 American Suzuki Center
- 5 Health Enhancement Center
- 5* Quandt and Berg Gyms
- 6 Science Building
- 7 Collins Classroom Center
- 8 Learning Resources Center & Library
- 9 Fine Arts Center
- 9* Michelsen & Jenkins Theatres
- 10 Nelson Hall
- 11 College of Professional Studies
- 12 College of Natural Resources
- 17 Schmeckle Reserve Visitor Center
- 21 Wood Utilization Lab
- 45 601 Division St, Residential Living
- 61 Delzell Hall

Service Buildings

- 14 HEC Service Building
- 16 HEC Storage Building
- 18 Schmeckle Reserve Shelter
- 25 George Stien Building
- 26 Resource Recovery Center
- 31 Maintenance and Materiel Building

Centers

- 40* University Center, Box Office
- 41 Allen Residence Center
- 42 DeBot Residence Center

Residence Halls

- | | |
|------------|--------------|
| 62 South | 69 Neale |
| 63 Pray | 70 Hansen |
| 64 Sims | 71 Steiner |
| 65 Hyer | 72 Burroughs |
| 66 Roach | 73 Knutzen |
| 67 Smith | 74 Watson |
| 68 Baldwin | 75 Thomson |

Introduction

UW-Stevens Point: A Profile

UW-Stevens Point has a long and proud academic tradition. In 1894 Stevens Point Normal School opened its doors as a teacher training school to 300 students. Since then we have undergone several name changes and expanded our programs. We are now one of the 13 units of the University of Wisconsin System with approximately 8,600 undergraduate and graduate students. Nearly 80 percent of our 400-plus faculty and teaching academic staff have doctoral or equivalent degrees.

Students attend classes in seven major buildings in a six square block area. Old Main and the University Center lie south of the academic core while the residence halls are on the north side of campus. Just north of the residence halls is Schmeckle Reserve, a 275-acre nature area which includes a 24-acre lake, a nature center, and trails that are part of the Portage County 26-mile recreational Green Circle.

Equal Opportunity/ Affirmative Action Policy

We at UW-Stevens Point affirm your right to equal opportunity in education. We make all our campus programs and activities equally available to all. In our educational programs, activities and employment policies, we don't discriminate on the basis of age, race, creed or religion, color, handicap, sex, national origin, ancestry, pregnancy, marital status, parental status, sexual orientation, disability, political affiliation, arrest or conviction record, membership in the National Guard, state defense force or other reserve component of the military forces of the United States or this state.

The University of Wisconsin-Stevens Point is an affirmative action/equal opportunity employer and encourages applications from members of ethnic/racial minorities, women, and persons with disabilities. If you have a question or concern about our compliance with state or federal laws or if you have a discrimination complaint, write or bring the question or complaint to our Equity and Affirmative Action Office, Room 210, Main Building, or phone 715-346-2002.

Disability Services

If you have a disability, you may obtain information on program access to all UW-Stevens Point majors, minors, and courses, as well as physical access to all campus buildings by contacting the Disability Services Office, Room 103, Student Services Center, 715-346-3365 or 715-346-3362 TTY for the hearing impaired. You may also call on them for help with counseling, housing, academic advising, and tutoring. We urge you to contact them to set up an individual assessment before your first semester of classes. All segments of UW-Stevens Point comply with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA).

UW-Stevens Point Mission Statements

UW-Stevens Point shares in the mission of the *University of Wisconsin System*.

The mission of this system is to develop human resources, to discover and disseminate knowledge, to extend knowledge and its application beyond the boundaries of its campuses, and to serve and stimulate society by developing in students heightened intellectual, cultural, and humane sensitivities; scientific, professional, and technological expertise; and a sense of purpose. Inherent in this broad mission are methods of instruction, research, extended education, and public service designed to educate people and improve the human condition. Basic to every purpose of the system is the search for truth.

As an institution in the *University Cluster* of the University of Wisconsin System, UW-Stevens Point shares the following core mission with other universities of the cluster. Each university in the cluster shall:

- a. Offer associate and baccalaureate degree level and selected graduate programs within the context of its approved mission statement.
- b. Offer an environment that emphasizes teaching excellence and meets the educational and personal needs of students through effective teaching, academic advising, counseling, and through university-sponsored cultural, recreational, and extracurricular programs.
- c. Offer a core of liberal studies that supports university degrees in the arts, letters, and sciences, as well as specialized professional/technical degrees at the associate and baccalaureate level.
- d. Offer a program of preprofessional curricular offerings consistent with the university's mission.
- e. Expect scholarly activity, including research, scholarship, and creative endeavor, that supports its programs at the associate and baccalaureate degree level, its selected graduate programs, and its approved mission statement.
- f. Promote the integration of the extension function, assist the University of Wisconsin-Extension in meeting its responsibility for statewide coordination, and encourage faculty and staff participation in outreach activity.
- g. Participate in interinstitutional relationships in order to maximize educational opportunity for the people of the state effectively and efficiently through the sharing of resources.
- h. Serve the needs of women, minority, disadvantaged, disabled, and nontraditional students and seek racial and ethnic diversification of the student body and the professional faculty and staff.
- i. Support activities designed to promote the economic development of the state.

The select goals and responsibilities of *UW-Stevens Point* are to:

- Provide a broad foundation of liberal studies and selected degree programs in the fine arts, humanities, natural sciences, and social sciences, imparting the heritage of human civilization, critical intelligence, and the skills necessary for a lifetime of learning and upon which education in the professional fields may be built.

2 Introduction

- Provide undergraduate professional programs in communicative disorders, teacher education, home economics*, the visual and performing arts, paper science, and natural resources with emphasis on the management of resources.
- Provide graduate programs in teacher education, communicative disorders, natural resources, home economics*, communication and other select areas clearly associated with this university's undergraduate emphases and strengths.
- Provide programs in wellness and health promotion.
- Provide quality undergraduate and graduate instruction through innovative methods using print and nonprint library resources, computing, communication technology, and direct student assistance.
- Expect scholarly activity, including research, scholarship and creative endeavor, that supports its programs at the associate and baccalaureate degree level, its selected graduate programs, and its special mission.
- Cooperate with UW-Extension in the development and coordination of statewide outreach programming, integration of the extension function into the institution, and appropriate and adequate recognition of those involved in outreach activities.

*The former home economics programs are now offered as child and family studies, dietetics, early childhood education, family and consumer education, human development, nutrition, and interior architecture.

The Stevens Point Community

Because of UWSP's central location, students are very much a part of the city of Stevens Point as soon as they come to campus. Residence halls and nearby student apartments and rooming houses blend into the community. In addition, the local economy depends on UWSP students as part-time employees. Police, fire department, hospital, city library, shopping, and the riverfront all are within easy access. A safe city with a low crime rate, Stevens Point provides a secure haven for its student residents.

Stevens Point is a city of about 25,000 in a metropolitan area of nearly 60,000. Located on the banks of the Wisconsin River, it offers a wide range of recreational opportunities including the Green Circle Trail, cross-country ski trails, year-round fishing on the river and in nearby lakes, downhill skiing at Standing Rocks County Park, and excellent baseball and softball facilities at Zenoff and Bukolt Parks.

The corporate headquarters of Sentry Insurance gives Stevens Point a cosmopolitan flavor that is unusual for a Midwestern city of its size. Besides UWSP, other major employers include Stevens Point Public Schools, Copps Corp, St. Michael's Hospital and Rice Medical Center, Stora Enso North America, McCain Foods USA, Portage County, Worzalla Publishing, Golden County Foods, The Noel Group, HO Wolding, Donaldson Co, Kimberly-Clark Corp, Herrschners, and Lands' End.

Stevens Point lies midway between Milwaukee and Minneapolis at the intersection of Interstate 39/Highway 51 and U.S. Highway 10. It is served by several airlines through the Central Wisconsin Airport as well as Greyhound Bus Lines.

Admissions

Admission Application Procedure

To apply for admission to UW-Stevens Point, use the standard **UW System Application for Undergraduate Admission**. You may obtain the application form from your high school guidance office or from:

Admissions Office
Room 102 Student Services Center
UW-Stevens Point
Stevens Point WI 54481-3897
Phone: 715-346-2441
E-mail: admiss@uwsp.edu
Web: www.uwsp.edu/admissions/

You may also apply for admission using the UW System World Wide Web electronic application form at <http://apply.wisconsin.edu> or through the UWSP Admissions Office Web page above.

New Freshman Admission

You will be considered for admission as a new freshman for the 2003-2004 school year if you satisfy the following requirements and the freshman class enrollment total has not been reached. NOTE: Admission is subject to program capacity limits and institutional enrollment limits established by the Board of Regents of the University of Wisconsin System.

All admission regulations for undergraduate students are subject to change at any time.

A. You must graduate from a recognized high school or its equivalent. Your high school is recognized if

1. It is operated by a public school district,
2. It is a private school that is accredited by a federally approved accreditation association, or
3. It is a private school that is not accredited but is recognized by the UW System because of the performance of previously admitted graduates from that high school.

If you did not graduate from a recognized high school, you must provide evidence of ability to begin college work. Such evidence may include General Education Development (GED) test scores or other established criteria, transcripts of coursework completed in high school, high school rank-in-class before leaving, written recommendations, ACT scores or other evidence deemed appropriate by the university. If you are a high school equivalency applicant, you may not normally enroll unless you are a minimum of two years past your expected date of high school graduation.

B. You must complete a minimum of 17 credits from the academic areas listed below. A credit is one academic year of study.

- | | |
|---|-------------------|
| 1. Core College Prep Credits | 13 credits |
| a. <i>English</i> | 4 credits |
| Three credits must be in college preparatory composition and literature. The fourth English credit may be satisfied by any nonremedial course that meets DPI graduation requirements and is offered through the English Department. | |
| b. <i>Mathematics</i> | 3 credits |
| Including courses such as algebra, geometry, algebra II, trigonometry, precalculus, calculus, and other college preparatory mathematics | |

courses for which algebra and/or geometry are prerequisites.

- | | |
|----------------------------|------------------|
| c. <i>Social Science</i> | 3 credits |
| d. <i>Natural Science</i> | 3 credits |
| 2. Elective Credits | 4 credits |

- a. Two credits from the above core college preparatory areas, foreign language, fine arts,* or computer science (excluding keyboarding) **AND**
- b. Two credits from the core college preparatory areas, elective credits listed above or other academic areas.**

*Acceptable fine arts courses:

Courses offered through music, fine arts, dance, theatre arts or art departments are generally acceptable. The following are examples of acceptable courses: choir, band, orchestra, ensemble courses, music theory, music appreciation, music history, art courses (e.g. drawing, ceramics, jewelry, painting, calligraphy, crafts, photography, architecture, graphic design, etc.), art history, art appreciation, dance, dance history, drama, acting, stage production, and stage craft.

**Acceptable courses for other academic areas:

Includes most courses offered in business and marketing education, family and consumer education (home economics), agriculture, health education, and trade and technology (industrial arts). Excludes physical education, driver education, cooperative education, most religion, English as a second language, remedial (in all areas of study) and exceptional education courses.

NOTE: Some high school courses do not satisfy college admissions requirements for academic coursework. You may check with our Admissions Office, 715-346-2441, to be sure that your courses meet our requirements.

- C. Applicants who meet any one of the following criteria will be admitted on a rolling basis until enrollment limits are met. **We urge you to apply early.**
 1. High school cumulative grade point average of 3.25 or above **and** ACT score of 21 or higher (SAT I of 990) **OR**
 2. High school class rank in the top 40 percent **OR**
 3. ACT composite score of 21 (Sat I of 990) or higher **and** high school class rank in top 50 percent.

If you do not meet the above criteria but you have a high school grade point average of 3.00 **OR** a high school rank in class of 50-59 percent **OR** an ACT of 21 (SAT I of 990) or above, your application will be reviewed individually on a rolling basis. Decisions to admit, deny, or place on "hold" for later consideration will depend on enrollment capacity and will be based on a combination of various predictors of success such as: class rank, ACT/SAT I, high school GPA, breadth and rigor of courses selected, trend in applicant's grades, and grades in college preparatory courses.
- D. If you do not qualify according to the above requirements, you may appeal in writing to the director of admissions for special consideration.
- E. **You must submit the results of either the ACT or SAT examinations. The ACT is preferred. (You will not be disadvantaged in the admission process by taking one test rather than the other.)**

Requirements for out-of-state applicants are the same as for Wisconsin residents.

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Orientation for New Students

As a new freshman at UW-Stevens Point, you take part in a two day orientation program along with your parents. Through the program, you learn how to quickly and easily adapt to university life. You also get to know UW-Stevens Point's customs, traditions, curricula, policies, and services. As part of this program, you meet with an academic adviser and prepare your class schedule for your first semester. You also meet with upperclass students and other new students in small discussion groups.

At the same time, your parents hear presentations by UW-Stevens Point faculty and staff on such topics as student health programs, health insurance, financial aid opportunities, housing and dining programs, and parent-student understanding. During the program, you and your parents are housed in residence halls and eat at UW-Stevens Point dining facilities. For more information, write or visit the Director of New Student Programs, Room 103, Student Services Center, or call 715-346-3365.

If you are a nontraditional student, you may get additional information about orientation and registration by writing or visiting the Student Academic Advising Center, Room 103, Student Services Center, or calling 715-346-3365.

Nondegree (Special) Students

If you are a high school graduate and want to take a limited number of courses, and you are not seeking a degree, you may be allowed to register for courses without formally applying for admission. Please contact the Admissions Office for information regarding registration.

High School (Special) Students

If you are a qualified high school junior or senior who wishes to take university courses while still enrolled in high school, you may be permitted to do so on a space-available basis. You will need to submit a UW-Stevens Point Youth Options Program/High School Special Student Application form (available from the UWSP Admissions Office) and an official high school transcript. Please contact your high school guidance counselor or the UWSP Admissions Office for more information.

Returning UWSP Students

If you have been away from campus for one or more semesters, follow the instructions under **Admission Application Procedure** in the beginning of this section of the catalog to apply for readmission to UW-Stevens Point. Ask any colleges you've attended since leaving UW-Stevens Point to send an official copy of your transcript to our Admissions Office so that we can determine your eligibility for readmission.

Because we must limit enrollment at UWSP, all admission regulations for undergraduate students are subject to change at any time.

If you left UW-Stevens Point under academic suspension, a letter of appeal must accompany your application for admission. The letter should explain the circumstances which affected your academic performance (include documentation if available), how your problems have been resolved, your activities/occupations since your attendance here, and what has changed so that, if you are readmitted, we can be assured that you will not be suspended again. You are eligible to apply for readmission as follows:

1. **First suspension:** You may apply for readmission one semester after you are first suspended, but realize that readmission is not automatically granted. You may apply even earlier if you show that you were suspended

due to circumstances you could not control and that those circumstances have changed.

2. **Second and following suspensions:** You may apply for readmission two years after you are suspended for a second time. Again, you may apply earlier only if you show that you were suspended due to circumstances you could not control and that those circumstances have changed.
3. **Appeals:** If we deny your request for readmission, you may appeal our decision. Address your letter of appeal to the Director of Admissions with a request that your appeal be forwarded to the Chancellor's Appeals Committee.

Admission of Transfer Students

Follow the instructions under **Admission Application Procedure** at the beginning of this section of the catalog to apply for admission to UW-Stevens Point. You will need to submit the UW System application form and have official transcripts from both your high school and each college you have attended forwarded directly to the UWSP Admissions Office.

You are normally eligible for admission unless you compiled an academic record at your last institution such that you would have been suspended if you had been attending UW-Stevens Point. If you did compile such a record, you may apply for admission to UW-Stevens Point no sooner than one semester after your first suspension or two years (four semesters) after your second suspension.

Because we must limit enrollment at UWSP, all admission regulations for undergraduate students are subject to change at any time. For further information about whether you are eligible to attend UW-Stevens Point, please contact the Admissions Office, Room 102, Student Services Center, 715-346-2441.

As a transfer student, you will take part in our one day orientation program which allows you to learn about university requirements and policies, meet with a faculty adviser and register for classes. We will give you full information on this program after you are admitted.

Transferring Credit to UWSP

To transfer credits you have earned elsewhere to UW-Stevens Point, ask each college you have attended to send an official transcript of your credits to UW-Stevens Point's Admissions Office. The Admissions Office determines whether credits earned at another institution will transfer to UW-Stevens Point and how those credits will apply toward the UWSP general degree requirements. Please note the following in regard to credit transfer:

- An official evaluation of your transfer credits will be completed after you are admitted on a final basis and have confirmed your intention to enroll at UWSP.
- Generally, credits earned for a college level course at a regionally accredited college or university will transfer to UWSP if you received a grade of D or higher in the course.
- The appropriate academic department will determine which credits apply to your major and minor.
- We accept a maximum of 72 credits from two year colleges. You will receive lower division (100-200 level) credit for any of these courses. (There is no limit on credits accepted from four year universities.)
- If you earned an approved associate degree from another UW System institution, you have met one part of our general degree requirements, but you still must

meet UW-Stevens Point skills requirements in mathematics, foreign language, communication (public speaking), English, writing emphasis, and wellness.

- Credits transferred from other institutions are not used in calculating the UW-Stevens Point grade point average. The UWSP grade point average is determined only by credits and grade points earned at UWSP. However, transfer credits and grades ARE included in the calculation of the grade point average in most majors and minors and in the determination of graduation honors.
- To graduate from UW-Stevens Point, you must **earn at least 30** of the total number of credits required for graduation in residence at this university.

Transferring Credit from the Two-Year UW Colleges

You may transfer up to a total of 72 credits in UW College or other two year college courses. You will receive lower division (100-200 level) credit for any courses you transfer from UW Colleges. We recommend that you consult the UW System's online Transfer Information System (TIS) for timely and accurate information on course equivalencies between the UW College campuses and UW-Stevens Point. Using TIS you can determine how your UW College courses will transfer and which UWSP general degree requirements they will fulfill.

**TIS can be accessed on the Web at
www.uwsa.edu/tis/ OR**

See the Equivalency Table at the end of this section.

If you transfer from a UW College campus and are enrolled continually (excluding summers), you will have the option of observing UWSP degree requirements that were in effect when you first enrolled at the UW College campus.

Transferring Credit from Wisconsin Technical Colleges

If you have been enrolled in the Wisconsin Technical College System (WTCS) and wish to continue your education at UW-Stevens Point, you may be eligible to transfer credits toward your bachelor's degree in the following ways:

- If you are or have been enrolled in the college-parallel program at Madison Area Technical College, Milwaukee Area Technical College, or Nicolet Area Technical College, you may be eligible to transfer up to 72 credits toward your baccalaureate degree.
- If you have attended a WTCS institution since September 1, 1985 (not in a college parallel program), you may be eligible to transfer up to 15 credits of general education coursework. In addition, you may be eligible to transfer a total of two approved courses from math and/or natural science areas if the courses were taken September 1995 or later. You also may be eligible to transfer certain technical support or occupational credits if there is an approved program-to-program articulation agreement between a WTCS associate degree program that you have completed and a program offered at UW-Stevens Point.
- If you are transferring from WTCS, you may be eligible for credit by earning appropriate scores on national standardized examinations and/or UW-Stevens Point test-out programs that are described later in this section of the catalog.

For more information, contact the Admissions Office, Room 102, Student Services Center; 715-346-2441.

Transfer Information System

If you are transferring to UW-Stevens Point from another UW System institution or a Wisconsin Technical College, we encourage you to consult the Transfer Information System (TIS). This online source of information about credit transfer, course equivalencies, academic requirements and general UW System campus information may be accessed on the Web at www.uwsa.edu/tis/. TIS is designed to provide prospective transfer students with current information to help you better prepare for transferring. If you are currently a UWSP student, you may find TIS helpful if you plan to take a summer course at another UW System school and transfer it back to UWSP, or if you plan to transfer from UWSP to another UW institution.

Transfer Credit Appeal Procedure

Here is the appeal procedure you can follow if you do not agree with the way we applied your transfer credits to the general degree requirements.

1. Ask a transfer counselor in the Admissions Office to explain the basis for the current evaluation.
2. If you earned the credits at an institution that is not part of the UW System, bring:
 - a. A copy of the transcript and the UW-Stevens Point evaluation.
 - b. A copy of the course description from the time you took the course. (For example, Iowa State's course description for Sociology 105 in 1994.)
 - c. A written request for the action you desire.
3. If you are still not satisfied with our transfer credit evaluation and believe you have sufficient grounds for an appeal, send a written request to the Transfer Credit Appeal Committee, c/o Registrar, UW-Stevens Point. Explain why you feel credit should be granted toward UW-Stevens Point general degree requirements. Include copies of the materials listed in 2 above along with the transfer counselor's response. You must file this appeal at least one semester before you expect to graduate.

Advanced Placement, Credit-by-Exam, and Test-Out Opportunities

There are a number of opportunities available at UWSP for earning credit or meeting course requirements other than traditional classroom instruction. These opportunities could allow you to graduate sooner than normal or take advantage of additional coursework outside of your major. If you are a self-learner, have substantial preparation in certain subject matter, or have appropriate life experiences, you are encouraged to pursue one or more of the following opportunities.

Advanced Placement Program (AP)

If you are currently a high school student, you can earn college credit if your school participates in the College Board AP Program. High schools participating in the AP program offer college level courses for which examinations are given each May. UWSP grants credit for scores of 3, 4 and 5 on all AP exams. AP courses are currently offered in humanities, mathematics, natural sciences and social sciences. If you are awarded credit, it will be entered on your permanent record after you enroll at UWSP. Contact your high school or our Admissions Office, Room 102, Student Services Center, 715-346-2441, for additional details.

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College-Level Examination Program (CLEP)

CLEP, also offered by the College Board, offers general examinations covering broad areas such as humanities, natural science and social science, as well as subject areas such as accounting, biology, American history, and psychology. UWSP grants credit for acceptable scores on many of the CLEP examinations. Credit will be entered on your permanent record after you enroll at UWSP. Contact our Admissions Office, Room 102, Student Services Center, 715-346-2441, or Testing Services, Third Floor, Delzell Hall, 715-346-4472, for additional information.

Experiential Learning Program

If you have had experiences equivalent to college level learning which relate to coursework at UWSP, you may receive college credit for these experiences. For example, you might be eligible to gain academic credit for experiential learning from your past employment, volunteer work, publications, or your participation in seminars, workshops, job-related training programs, or military training programs. For further information, see the **Experiential Learning** section later in this catalog or contact the Student Academic Advising Center, Room 103, Student Services Center, 715-346-3361.

Advanced Standing/Retroactive Credit

Some departments administer placement tests when you first enroll. If the test results indicate that you should start at a higher level than the entering freshman course, you may have the opportunity to earn retroactive credit for the course. In foreign language, for example, you can earn up to 16 retroactive credits if you place into 313 and earn a grade of B- or better. Check the departmental listings in this catalog or contact the department chair for additional information.

Departmental Credit-by-Exam

Check the departmental listings in this catalog or contact the department chair for information about this option.

Test-Out

You may test out of a number of general degree requirement (GDR) courses. When you pass a departmentally approved test in a GDR course, the requirement to enroll in the course is waived. You don't earn credit when you test out, but the course applies toward fulfillment of that GDR. For example, if you test out of Communication 101, you satisfy the Communication 101 GDR without enrolling in the course. See "Test-Out and Credit-by-Exam Policy" under the **General Degree Requirements** section of this catalog or contact individual departments for more information about their test-out opportunities.

Additional Information and General Limitations to AP, Credit-by-Exam, and Test-Out

1. Credits earned through the above policies:
 - a. Are recorded on your academic record.
 - b. Have full academic value and apply toward graduation and all other requirements as if you had completed the course through regular enrollment.
 - c. Are not assigned grades, are not calculated in your grade point average and are not included in your semester credit load.
 - d. Do not count toward the minimum 30 credit residency requirement.
2. You may count 32 credits earned under the above policies toward the 120 credits required for graduation or 16 credits toward an associate degree.
3. You may be charged a nominal fee for departmentally administered test-out and credit examinations.
4. The methods for testing and standards for awarding credit or test-out in departmentally administered tests are determined by the department.
5. Individual departments may have additional limitations to these programs which will be identified in the department's section of this catalog.

UW Colleges/ UW-Stevens Point Course Equivalency Table

The chart below indicates how courses from the UW Colleges transfer to UW-Stevens Point. The first column is a list of UW College courses from the UW Colleges 2001-2003 catalog. The second column lists equivalent courses at UW-Stevens Point. If UW-Stevens Point does not offer a course equivalent to a UW College course, this column will show the equivalent as an elective in a related area of study. The third column describes how the UW College course will be applied toward the UW-Stevens Point general degree requirements (GDRs). This column is left blank when a UW College course does not apply toward any of the UW-Stevens Point general degree requirements.

Please note that this information is subject to change at any time. We urge you to consult the online UW System Transfer Information System (www.uwsa.edu/tis/) for the most accurate and up-to-date equivalency information.

Here is a partial list of abbreviations used in the equivalency list below:

CIS	Computer Information Systems
CNR	College of Natural Resources
COMM	Communication for GDRs
Comp Lit	Comparative Literature
EL	Environmental Literacy for GDR
ENGL	Freshman English for GDR
FL	Foreign Language for GDR
FLg	Foreign Language
GDR	General Degree Requirement
HI	History for GDR
HP/W	Health Promotion/Wellness
HU1-4	Humanities Areas 1-4 for GDR
Int	Interdisciplinary
MATH	Mathematics for GDR
MNS	Minority Studies for GDR
NRes	Natural Resources
NS	Natural Science for GDR
NW	Non-Western Culture for GDR
SS1-2	Social Science Categories 1 and 2 for GDR
Wlns	Wellness
WL/AA	Wellness/Aerobic Activity for GDR
WL/HE	Wellness/Health Enhancement for GDR
Wldl	Wildlife
Womn	Women's Studies

UW College	UWSP Equiv	UWSP GDR	UW College	UWSP Equiv	UWSP GDR	UW College	UWSP Equiv	UWSP GDR
AMERICAN INDIAN STUDIES								
Ais 227	Elective	SS1-MNS	Art 243	Art 421		Bus 204	Acct 211	
Ais 242	Elective	HU2-MNS	Art 245	Art elective		Bus 210	Engl 251	
Ais 308	Elective	SS1-MNS	Art 247	Art elective		Bus 227	Bus elective	SS1-MNS
ANTHROPOLOGY								
Ant 100	Anth 101	SS1-NW	Art 254	Art 361		Bus 230	CIS 101 & 102	
Ant 102	Anth 250	SS1-NW	Art 255	Art 361		Bus 242	Phil 304	HU3
Ant 105	Anth 111	NS	Art 261	Art 320		Bus 243	Econ 310	
Ant 200	Anth 110	SS1-NW	Art 291	Art 398		Bus 244	Bus elective	SS1
Ant 204	Anth 110	SS1-NW	Art 299	Art 399		Bus 297	Bus elective	
Ant 250	Anth elective	SS2-NW	ASTRONOMY			Bus 299	Bus elective	
Ant 260	Anth elective	HU1-MNS	Ast 100	3 cr/Astr elective	3 cr/NS	CHEMISTRY		
Ant 291	Anth elective	SS1	Ast 101	4 cr/Astr 100	4 cr/NS	Che 112	Chem 104	
Ant 299	Anth elective		Ast 100&101	Astr elective	NS	Che 123	Chem 100	NS
Ant 302	Anth elective	SS1-MNS	Ast 200	Astr 100	NS	Che 124	Chem 100	NS
Ant 308	Anth elective	SS1-MNS	Ast 291	Astr 205	NS	Che 125	Chem 101	NS
Ant 314	Anth 339	SS1-NW	BACTERIOLOGY			Che 145	Chem 105	NS
Ant 325	Anth elective	SS1-NW	Bac 101	1-2 cr/Astr elctv		Che 155	Chem 106	NS
Ant 343	Anth elective	SS1-NW	Bac 299	3 cr/Astr 380		Che 203	Chem elective	NS
Ant 350	Anth elective	WL/HE-NW	Bac 303	Astr elective		Che 211	Chem elective	NS
Ant 353	Anth elective	SS1-MNS	Bac 304	Biol 333	NS	Che 214	Chem elective	NS
Ant 370	Anth 340		Bac 303&304	Biol 399		Che 244	Chem 248	NS
ART								
Art 100	Art elective		Bac 303	Biol elective	NS	Che 290	Chem elective	
Art 101	Art 103		Bac 304	Biol elective	NS	Che 299	Chem elective	
Art 102	Art 104		Bac 303&304	Biol 333	NS	Che 343	Chem 325	NS
Art 103	Art 303		Bio 103	BIOLOGY		Che 351	Chem elective	NS
Art 111	Art 101			Bio 103	NRes 150 (CNR major) or NRes 395 (all others)	Che 352	Chem 328	NS
Art 112	Art 102			Bio 107	NRes 150 (CNR major) or NRes 395 (all others)	Che 361	Chem 328	NS
Art 121	Art 234					Che 363	Chem 326	NS
Art 122	Art 331			Bio 109	Biol 101	COMMUNICATION ARTS		
Art 125	Art 334			Bio 160	Biol 210	Com 101	Comm 280	SS2
Art 131	Art 251			Bio 250	NRes 151 (CNR majors) or Biol 305 & 306 (all other majors)	Com 103	Comm 101	COMM
Art 141	Art 321					Com 104	Comm 299	
Art 154	Art 261					Com 105	Comm 299	
Art 161	Art 215					Com 106	Comm 299	
Art 175	Art elective	HU1-MNS				Com 110	Comm elective	
Art 180	Art elective	HU1				Com 130	Thea 105	HU1
Art 181	Art 282	HU1				Com 131	Thea 126, 226, 326 or 426	
Art 183	Art 283	HU1				Com 150	Comm 160	HU1
Art 185	Art elective	HU1				Com 160	Comm elective	SS2
Art 187	Art elective	HU1				Com 201	Comm 190	HU1
Art 188	Art elective	HU1				Com 203	Comm 221	
Art 201	Art 236					Com 204	Comm elective	
Art 202	Art 336					Com 210	Comm elective	SS2-MNS
Art 222	Art 332					Com 218	Comm elective	HU1
Art 225	Art elective					Com 220	Comm elective	
Art 231	Art elective					Com 221	Comm elective	
Art 232	Art elective					Com 230	Comm elective	HU2
Art 241	Art 322					Com 232	Thea 170	
						Com 234	Thea 146	
						Com 266	Comm 380	SS2

8 Course Equivalency Table

UW College	UWSP Equiv	UWSP GDR	UW College	UWSP Equiv	UWSP GDR	UW College	UWSP Equiv	UWSP GDR
Com 298	Thea elective		Eng 280	Engl elective	HU2	Ger 201	Germ 211	FL
Com 299	Thea 399		Eng 285	Engl elective	HU2-EL	Ger 203	Germ elective	FL
Com 349	Thea elective		Eng 290	Engl elective		Ger 204	Germ 211	FL
COMPUTER SCIENCE			Eng 299	Engl 399		Ger 205	Germ 212	FL
Cps 100	CIS 101		Eng 370	Engl elective	HU2	Ger 206	Germ elective	FL
Cps 101	CIS elective		Eng 380	Engl elective	HU2	Ger 207	Germ 212	FL
Cps 103	CIS elective		FRENCH			Ger 215	FLg 100	
Cps 104	CIS elective		Fre 101	Fren 101	FL	Ger 216	FLg 100	
Cps 103&104	CIS 101		Fre 103	Fren elective	FL	Ger 221	Germ 340	HU2
Cps 105	CIS 102		Fre 104	Fren 101	FL	Ger 222	Germ 340	HU2
Cps 106	CIS 102		Fre 105	Fren 102	FL	Ger 223	Germ 370	HU2
Cps 107	CIS 102		Fre 106	Fren elective	FL	Ger 225	Germ 313	FL
Cps 108	CIS 102		Fre 107	Fren 102	FL	Ger 226	Germ 314	FL
Cps 109	CIS 102		Fre 118	FLg 100		Ger 276	Elective	HU2
Cps 110	CIS 101		Fre 201	Fren 211	FL	Ger 277	Comp Lit 350	HU2
Cps 130	CIS 102		Fre 203	Fren elective	FL	Ger 291	Germ elective	
Cps 216	CIS 210		Fre 204	Fren 211	FL	Ger 299	Germ 499	
Cps 217	CIS elective		Fre 205	Fren 212	FL	HISTORY		
Cps 260	CIS 230		Fre 206	Fren elective	FL	His 101	Hist 211	HI-MNS
Cps 270	CIS 211		Fre 207	Fren 212	FL	His 102	Hist 212	HI-MNS
Cps 291	CIS elective		Fre 215	FLg 100		His 105	Hist elective	HI
Cps 299	CIS elective		Fre 216	FLg 100		His 106	Hist elective	HI
ECONOMICS			Fre 219	Fren 318		His 111	Hist 105	HI
Eco 101	Econ 100	SS1	Fre 221	Fren 341	HU2	His 112	Hist elective	HI
Eco 203	Econ 210	SS1	Fre 222	Fren 342	HU2	His 114	Hist elective	HI
Eco 204	Econ 211	SS1	Fre 223	Fren 370	HU2	His 115	Hist 106	HI
Eco 230	Econ 360	SS1	Fre 225	Fren 313	FL	His 118	Hist 391	HI-NW
Eco 243	Econ 310		Fre 226	Fren 314	FL	His 119	Hist 107	HI
Eco 250	Econ 315	SS1	Fre 276	Elective	HU2	His 120	Hist 108	HI
Eco 297	Econ elective		Fre 277	Comp Lit 350	HU2	His 123	Hist 331	HI
Eco 299	Econ elective		Fre 291	Fren elective		His 124	Hist 332	HI
EDUCATION			Fre 299	Fren 499		His 126	Hist elective	HI
Edu 201	Educ 280		GEOGRAPHY			His 127	Hist 327	HI-NW
Edu 300	Educ 351	SS2	Geo 101	Geog 120	SS1-NW	His 150	Hist elective	HI
Edu 330	Educ elective	SS2	Geo 102	Geog elective	SS1-MNS	His 161	Hist 101	HI-NW
ENGINEERING			Geo 104	Geog elective	NS	His 162	Hist 102	HI-NW
Egr 100	Elective		Geo 106	Geog elective	NS	His 198	Hist elective	HU1
Egr 106	Elective		Geo 107	NRes 377	NS	His 211	Hist 367	HI-MNS
Egr 282	Elective	SS2	Geo 110	Geog 113	SS1-NW	His 213	Hist 254	HI-NW
ENGINEERING GRAPHICS			Geo 115	Geog 110	SS1-NW	His 219	Hist 338	HU4-NW BS
Gra 102	Elective		Geo 120	Geog 101	NS			HI-NW BA BM
Gra 113	Elective		Geo 123	Geog elective	NS			BFA
ENGINEERING MECHANICS			Geo 124	Geog elective	NS	His 222	Hist 346	HU4-NW BS
Mec 201	Phys 220	NS	Geo 123&124	Geog 101	NS			HI-NW BA BM
Mec 202	Phys 221	NS	Geo 125	Geog 100	NS-EL			BFA
Mec 203	Elective	NS	Geo 130	Geog 340	SS1-EL	His 240	Hist elective	HI
ENGLISH			Geo 170	Geog elective	NS	His 254	Hist 373	HI
Eng 095	Engl 050	no credit	Geo 200	Geog elective	SS1-MNS	His 255	Hist elective	HI
Eng 097	Engl 050	no credit	Geo 277	Geog elective	SS1	His 256	Hist elective	HI
Eng 098	Engl 050	no credit	Geo 291	Geog elective		His 257	Hist elective	HI
Eng 099	Engl 099	no credit	Geo 297	Geog elective		His 258	Hist elective	HI
Eng 101	Engl 101	ENGL	Geo 299	Geog 395		His 261	Hist elective	HI
Eng 102	Engl 102	ENGL	Geo 300	Geog 368	SS1-NW	His 270	Hist elective	HI
Eng 201	Engl 250		Geo 341	Geog 226	SS1	His 273	Hist elective	SS1-NW
Eng 202	Engl elective	HU2	Geo 342	Geog 211	SS1	His 274	Hist 216	HI-NW
Eng 203	Engl 253		Geo 349	Geog 328	SS1	His 275	Hist elective	HI-NW
Eng 204	Engl 353		Geo 350	NRes 150 (CNR major) or NRes 395 (all others)	SS2-EL	His 277	Hist elective	HI-MNS
Eng 206	Engl 254		GEOLOGY			His 278	Hist 130	HI-MNS
Eng 210	Engl 251		Glg 100	Geol 100	NS	His 279	Hist elective	HI
Eng 242	Engl elective	HU2-MNS	Glg 101	Geol 104	NS	His 280	Hist elective	HI-MNS
Eng 250	Engl 200	HU2	Glg 102	Geol 105	NS	His 283	Hist elective	HI
Eng 251	Engl 312	HU2	Glg 103	Geol elective	NS	His 285	Hist 359	HI
Eng 253	Engl elective	HU2	Glg 104	Geol elective	NS	His 286	Hist 360	HI
Eng 255	Engl elective	HU2	Glg 107	NRes 377	NS	His 288	Hist elective	HU4
Eng 260	Engl 211	HU2	Glg 135	Geol elective	NS-EL	His 289	Hist 356	HI
Eng 261	Engl 212	HU2	Glg 169	NRes 150 (CNR major) or Geol 100 (all others)	SS2-EL (CNR major); NS-EL (all others)	His 290	Hist 389	HI
Eng 262	Engl 213	HU2				His 293	Hist 358	HI
Eng 263	Engl 214	HU2				His 297	Hist elective	HI
Eng 264	Comp Lit 101	HU2				His 299	Hist 399	HI
Eng 265	Comp Lit 102	HU2	Glg 170	Geol elective	NS	INTERDISCIPLINARY STUDIES		
Eng 266	Engl elective	HU2	Glg 291	Geol elective		Int 290	Elective	
Eng 267	Engl elective	HU2	Glg 297	Geol 391		LEARNING RESOURCES		
Eng 268	Engl elective	HU2-NW	Glg 299	Geol 295		Lea 100	Engl 099	no credit
Eng 269	Engl elective	HU2-NW	Glg 309	Geol 352	NS	Lea 101	Engl 099	no credit
Eng 270	Engl elective	HU2	Glg 343	Geol 370	NS	Lea 102	Educ 099	no credit
Eng 272	Engl elective	HU2	GERMAN			Lea 103	Educ 099	no credit
Eng 273	Engl elective	HU2-NW	Ger 101	Germ 101	FL	Lea 104	Psyc 099	no credit
Eng 274	Engl elective	HU2	Ger 103	Germ elective	FL	Lea 105	Math 099	no credit
Eng 275	Engl elective	HU2-NW	Ger 104	Germ 101	FL	Lea 106	Engl 099	no credit
Eng 276	Engl elective	HU2	Ger 105	Germ 102	FL	Lea 110	Engl 099	no credit
Eng 277	Engl elective	HU1	Ger 106	Germ elective	FL	Lea 111	Engl 099	no credit
Eng 278	Engl elective	HU2-MNS	Ger 107	Germ 102	FL	Lea 112	Psyc 099	no credit
Eng 279	Engl 285	HU2	Ger 118	FLg 100		Lea 113	Psyc 099	no credit

Course Equivalency Table 9

UW College	UWSP Equiv	UWSP GDR	UW College	UWSP Equiv	UWSP GDR	UW College	UWSP Equiv	UWSP GDR
Lea 114	Psyc 099	no credit	Mua 005	Mus 160		Mua 126	Mus 171	
Lea 115	Math 099	no credit	Mua 006	Mus 160		Mua 128	Mus 170	
Lea 116	FLg 099	no credit	Mua 007	Mus 151		Mua 129	Mus 170	
LECTURE FORUM			Mua 008	Mus 151		Mua 131	Mus 173	
Lec 100	Lect elective		Mua 009	Mus 162		Mua 132	Mus 173	
Lec 101	Lect elective		Mua 010	Mus 162		Mua 134	Mus 172	
Lec 102	LRES 101		Mua 011	Mus 149		Mua 135	Mus 172	
Lec 105	Elective		Mua 012	Mus 149		Mua 137	Mus 174	
Lec 290	Elective		Mua 013	Mus 180		Mua 138	Mus 174	
MATHEMATICS			Mua 014	Mus 180		Mua 140	Mus 175	
Mat 081	Math 099	no credit	Mua 015	Mus elective		Mua 141	Mus 175	
Mat 085	Math 099	no credit	Mua 016	Mus 167		Mua 143	Mus 176	
Mat 087	Math 099	no credit	Mua 017	Mus 167		Mua 144	Mus 176	
Mat 090	Math 099	no credit	Mua 018	Mus elective		Mua 146	Mus 177	
Mat 091	Math 090	no credit	Mua 019	Mus 168		Mua 147	Mus 177	
Mat 092	Math 099	no credit	Mua 020	Mus 168		Mua 149	Mus 163	
Mat 094	Math 099	no credit	Mua 021	Mus elective		Mua 150	Mus 163	
Mat 095	Math 090	no credit	Mua 022	Mus 169		Mua 152	Mus 164	
Mat 097	Math 090	no credit	Mua 023	Mus 169		Mua 153	Mus 164	
Mat 105	Math 100	MATH	Mua 024	Mus elective		Mua 155	Mus 165	
Mat 108	Math 105	MATH BA; no GDR	Mua 025	Mus 171		Mua 156	Mus 165	
		BS/BM/BFA	Mua 026	Mus 171		Mua 158	Mus 166	
		MATH	Mua 027	Mus elective		Mua 159	Mus 166	
Mat 110	Math 118	MATH	Mua 028	Mus 170		Mua 161	Mus 178	
Mat 113	Math 119	MATH	Mua 029	Mus 170		Mua 162	Mus 178	
Mat 117	Math 355	MATH	Mua 030	Mus elective		Mua 163	Mus elective	
Mat 124	Math 118 & 119	MATH	Mua 031	Mus 173		Mua 164	Mus elective	
Mat 130	Math 228	MATH elem, ece, & excep ed majors only	Mua 032	Mus 173		Mua 169	Mus 160	
		MATH	Mua 033	Mus elective		Mua 170	Mus 160	
		MATH	Mua 034	Mus 172		Mua 203	Mus 261	
Mat 132	Math 338	MATH	Mua 035	Mus 172		Mua 204	Mus 261	
Mat 140	Math 105	MATH BA; no GDR	Mua 036	Mus elective		Mua 205	Mus 260	
		BS/BM/BFA	Mua 037	Mus 174		Mua 206	Mus 260	
		MATH	Mua 038	Mus 174		Mua 209	Mus 262	
Mat 210	Math elective	MATH	Mua 039	Mus elective		Mua 210	Mus 262	
Mat 211	Math 111	MATH	Mua 040	Mus 175		Mua 213	Mus 280	
Mat 221	Math 120	MATH	Mua 041	Mus 175		Mua 214	Mus 280	
Mat 222	Math 121		Mua 042	Mus elective		Mua 216	Mus 267	
Mat 223	Math 222		Mua 043	Mus 176		Mua 217	Mus 267	
Mat 224	Math elective		Mua 044	Mus 176		Mua 219	Mus 268	
Mat 230	Math 305		Mua 045	Mus elective		Mua 220	Mus 268	
Mat 234	Math 222	MATH	Mua 046	Mus 177		Mua 222	Mus 269	
Mat 240	Math elective		Mua 047	Mus 177		Mua 223	Mus 269	
Mat 262	Math 213		Mua 048	Mus elective		Mua 225	Mus 271	
Mat 271	Math 320		Mua 049	Mus 163		Mua 226	Mus 271	
Mat 290	Math elective		Mua 050	Mus 163		Mua 228	Mus 270	
Mat 299	Math elective		Mua 051	Mus elective		Mua 229	Mus 270	
METEOROLOGY			Mua 052	Mus 164		Mua 231	Mus 273	
Mlg 100	Elective	NS	Mua 053	Mus 164		Mua 232	Mus 273	
MUSIC			Mua 054	Mus elective		Mua 234	Mus 272	
Mus 070	Mus 342		Mua 055	Mus 165		Mua 235	Mus 272	
Mus 071	Mus 343		Mua 056	Mus 165		Mua 237	Mus 274	
Mus 072	Mus 341		Mua 057	Mus elective		Mua 238	Mus 274	
Mus 074	Mus 345		Mua 058	Mus 166		Mua 240	Mus 275	
Mus 075	Mus 130		Mua 059	Mus 166		Mua 241	Mus 275	
Mus 076	Mus 135		Mua 060	Mus elective		Mua 243	Mus 276	
Mus 107	Mus 151		Mua 061	Mus 178		Mua 244	Mus 276	
Mus 115	Mus 154		Mua 062	Mus 178		Mua 246	Mus 277	
Mus 130	Mus 156		Mua 063	Mus elective		Mua 247	Mus 277	
Mus 145	Mus 157		Mua 064	Mus elective		Mua 249	Mus 263	
Mus 147	Mus elective		Mua 065	Mus elective		Mua 250	Mus 263	
Mus 170	Mus 159		Mua 066	Mus elective		Mua 252	Mus 264	
Mus 171	Mus 110	HU1	Mua 067	Mus 160		Mua 253	Mus 264	
Mus 172	Mus 111	HU1	Mua 068	Mus 160		Mua 255	Mus 265	
Mus 173	Mus elective	HU1	Mua 069	Mus elective		Mua 256	Mus 265	
Mus 174	Mus elective	HU1	Mua 070	Mus elective		Mua 258	Mus 266	
Mus 181	Mus 112		Mua 093	Mus 161		Mua 259	Mus 266	
Mus 182	Mus 113		Mua 094	Mus 161		Mua 261	Mus 278	
Mus 271	Mus 210	HU1	Mua 103	Mus 161		Mua 262	Mus 278	
Mus 272	Mus elective	HU1	Mua 104	Mus 161		Mua 263	Mus elective	
Mus 273	Mus 105	HU1-MNS	Mua 105	Mus 160		Mua 264	Mus elective	
Mus 275	Mus elective	HU1	Mua 106	Mus 160		Mua 271	Mus 260	
Mus 276	Mus elective	HU1	Mua 109	Mus 162		Mua 272	Mus 260	
Mus 280	Mus 317		Mua 110	Mus 162		Mua 299	Mus elective	
Mus 281	Mus 212		Mua 113	Mus 180		Mua 305	Mus 360	
Mus 282	Mus elective		Mua 114	Mus 180		Mua 306	Mus 360	
Mus 295	Mus 499		Mua 116	Mus 167		NATURAL RESOURCES		
Mus 299	Mus 499		Mua 117	Mus 167		Nat 250	Nres 250	NS
MUSIC - APPLIED			Mua 119	Mus 168		PHILOSOPHY		
Mua 001	Mus 158		Mua 120	Mus 168		Phi 101	Phil 100	HU3
Mua 002	Mus 158		Mua 122	Mus 169		Phi 102	Phil 220	HU3
Mua 003	Mus 158		Mua 123	Mus 169		Phi 103	Phil elective	HU3
Mua 004	Mus 158		Mua 125	Mus 171		Phi 106	Phil elective	HU3

10 Course Equivalency Table

UW College	UWSP Equiv	UWSP GDR	UW College	UWSP Equiv	UWSP GDR	UW College	UWSP Equiv	UWSP GDR
Phi 201	Phil 105	HU3-NW	PHYSICS			Spa 203	Span elective	FL
Phi 202	Phil elective	HU3	Phy 107	Phys elective	NS	Spa 204	Span 211	FL
Phi 203	Phil elective	HU3-MNS	Phy 110	3 cr/Phys electv	NS	Spa 205	Span 212	FL
Phi 205	Phil elective	HU3		4 cr/Phys 203		Spa 206	Span elective	FL
Phi 210	Phil 121	HU3	Phy 120	Phys elective	NS	Spa 207	Span 212	FL
Phi 211	Phil 121	HU3	Phy 141	Phys 203	NS	Spa 215	FLg 100	
Phi 220	Phil 306	HU3	Phy 142	Phys 204	NS	Spa 216	FLg 100	
Phi 226	Phil 301	HU3	Phy 201	Phys 150	NS	Spa 219	Span 318	
Phi 230	Phil elective	HU3	Phy 202	Phys 250	NS	Spa 221	Span 342	HU2
Phi 231	Phil elective	HU3	Phy 205	Phys 300	NS	Spa 222	Span 341	HU2
Phi 232	Phil elective	HU4	Phy 291	Phys elective		Spa 225	Span 313	FL
Phi 237	Phil elective	HU3	Phy 299	Phys 499		Spa 226	Span 314	FL
Phi 240	Phil 330	HU3	PHYSIOLOGY			Spa 235	FLg 381	HU4
Phi 241	Phil 305	HU3	Phs 170	Biol elective	NS	Spa 236	FLg 381	HU4-NW
Phi 243	Phil 304	HU3	Phs 202	Biol elective	NS	Spa 237	Span elective	HU2-MNS
Phi 244	Phil 380	HU3-EL	Phs 203	Biol elective	NS	Spa 277	Comp Lit 350	HU2
Phi 248	Phil 302	HU3	Phs 230	Biol elective	NS	Spa 291	Span 493	HU2
Phi 253	Phil 303	HU3	Phs 235	Biol 285	NS	Spa 299	Span 499	
Phi 258	Phil elective	HU3	Phs 250	Biol elective		WILDLIFE		
Phi 291	Phil elective		POLITICAL SCIENCE			Wil 140	NRes 250 (if FOR 120 taken)	NS
Phi 299	Phil elective		Pol 101	Poli elective	SS1		Wildlife elective if taken alone	
PHYSICAL EDUCATION			Pol 104	Poli 101	SS1	WOMEN'S STUDIES		
Ped 001	Wins 114	WL/AA	Pol 105	Poli elective	SS1	Wom 101	Womn 105	SS2-MNS
Ped 002	Wins 117	WL/AA	Pol 104&105	Poli 201	SS1	Wom 138	Womn elective	SS2
Ped 005	Wins elective	WL/AA	Pol 106	Poli 160	SS1-NW	Wom 202	Womn elective	HU3
Ped 006	Wins 109	WL/AA	Pol 201	Poli 270	HU3	Wom 208	Womn elective	SS1
Ped 007	Wins 110	WL/AA	Pol 204	Poli 201	SS1	Wom 231	Womn elective	HU4
Ped 009	Wins 135	WL/AA	Pol 219	Poli 202	SS1-MNS	Wom 250	Womn elective	SS2-NW
Ped 010	Wins 136	WL/AA	Pol 220	Poli elective	SS1	Wom 279	Engl 285	HU2
Ped 012	Wins 158	WL/AA	Pol 225	Poli 242	SS1	Wom 291	Womn elective	
Ped 014	Wins elective	WL/AA	Pol 231	Poli elective	HU3	Wom 299	Womn 499	
Ped 016	Wins 137	WL/AA	Pol 235	Poli 315	SS1-MNS	ZOOLOGY		
Ped 017	Wins 138	WL/AA	Pol 250	Econ 315	SS1	Zoo 101	Biol 160	NS
Ped 018	Wins elective	WL/AA	Pol 275	Poli 180	SS1	Zoo 105	Biol elective	NS
Ped 019	Wins 183	WL/AA	Pol 298	Poli 499	SS1	Zoo 140	Nres 250 (if FOR 120 taken)	NS
Ped 022	Wins elective	WL/AA	Pol 299	Poli 499			Biology elective if taken alone	
Ped 024	Wins 106	WL/AA	Pol 308	Poli 310	SS1	Zoo 155	Biol 383	NS
Ped 026	Wins 132	WL/AA	PSYCHOLOGY			Zoo 170	Biol elective	NS
Ped 027	Wins 107	WL/AA	Psy 201	Psyc 110	SS1	Zoo 234	Biol 286	NS
Ped 028	Wins 186	WL/AA	Psy 202	Psyc 110	SS1	Zoo 237	Biol 372	NS
Ped 032	Wins 133	WL/AA	Psy 203	Psyc elective		Zoo 277	Biol 377	NS
Ped 033	Wins 134	WL/AA	Psy 208	Psyc elective	SS1	Zoo 291	Biol 498	
Ped 037	Wins elective	WL/AA	Psy 210	Psyc 300		Zoo 299	Biol 399	
Ped 041	Wins 163	WL/AA	Psy 224	Psyc elective		Zoo 315	Watr 481 (if ZOO 316 taken)	NS
Ped 042	Wins 192	WL/AA	Psy 225	Psyc 389	NS		Biology elective if taken alone	
Ped 043	Wins 162	WL/AA	Psy 250	Psyc 260	SS1	Zoo 316	Watr 481 (if ZOO 315 taken)	NS
Ped 044	Wins elective	WL/AA	Psy 254	Psyc 325	NS		Biology elective if taken alone	
Ped 046	Wins 145	WL/HE	Psy 270	Psyc elective	SS1-MNS			
Ped 048	Wins 122	WL/AA	Psy 299	Psyc 399				
Ped 055	Wins 170	WL/AA	Psy 307	Psyc 301	SS1			
Ped 056	Wins 171	WL/AA	Psy 309	Psyc 351	SS1			
Ped 058	Wins 146	WL/HE	Psy 311	Psyc 490	SS1			
Ped 061	Wins 173	WL/AA	Psy 330	Psyc 320	SS1			
Ped 102	Wins elective	WL/AA	Psy 360	Psyc elective	SS1			
Ped 104	Wins 117	WL/AA	Psy 362	Psyc 465	SS1			
Ped 106	Wins 164	WL/AA	SOCIOLOGY					
Ped 108	Wins elective	WL/AA	Soc 101	Soc 101	SS1-MNS			
Ped 109	Wins 135	WL/AA	Soc 125	Soc elective	SS1			
Ped 110	Wins 158	WL/AA	Soc 130	Soc 102	SS1-MNS			
Ped 113	Wins 170	WL/AA	Soc 160	Soc elective	WL/HE			
Ped 115	Wins elective	WL/AA	Soc 220	Soc 240	SS1			
Ped 116	Wins 137	WL/AA	Soc 231	Soc 230	SS1			
Ped 117	Wins elective	WL/AA	Soc 234	Soc 270	SS1-MNS			
Ped 118	Wins 183	WL/AA	Soc 238	Soc elective	SS2			
Ped 123	Wins 123	WL/HE	Soc 246	Soc 332	SS1			
Ped 124	Wins elective	WL/HE	Soc 250	Soc elective	SS1			
Ped 127	HP/W 102	WL/HE	Soc 270	Soc elective	SS1-NW-EL			
Ped 131	Coac elective		Soc 275	Soc elective	SS1			
Ped 132	Coac elective		Soc 285	Soc elective	SS1			
Ped 203	Rec elective		Soc 291	Soc elective	SS1			
Ped 204	Ped 105		Soc 299	Soc elective	SS1			
Ped 205	AT elective		Soc 335	Soc 310	SS1			
Ped 206	Ped Elective	WL/HE	Soc 355	Soc 355	SS2-EL			
Ped 207	Coac 282		Soc 357	Soc 352	SS1			
Ped 208	Ped elective		SPANISH					
Ped 211	Ped elective	WL/AA	Spa 101	Span 101	FL			
Ped 212	Ped elective		Spa 103	Span elective	FL			
Ped 213	Ped elective	WL/HE	Spa 104	Span 101	FL			
Ped 217	Ped elective	SS2	Spa 105	Span 102	FL			
Ped 220	Wins 147	WL/HE	Spa 106	Span elective	FL			
Ped 291	Ped 399		Spa 107	Span 102	FL			
Ped 299	Ped 399		Spa 118	FLg 100				
			Spa 201	Span 211	FL			

Finances

How to Apply for Financial Aid

- Request a Free Application for Federal Student Aid (FAFSA) from your high school guidance counselor or from the UWSP Student Financial Aid Office.
- Complete and mail the form according to the instructions provided on it.

If you are a continuing student, normally a renewal FAFSA will be mailed to you by the U.S. Department of Education in December or January if you applied for aid the previous year. Complete and mail the form according to the instructions provided on it. If you previously completed a FAFSA using the government's Internet site, you must reapply using that same method (requires the use of a personal identification number).

Financial Aid Eligibility

The Financial Aid Office administers UW-Stevens Point's various federal and state financial assistance programs that help students pay their college expenses. They award you funds from need-based programs based on your family's income and assets, the size of your family, the number of family members in college, and other information which you provide on your application form.

To be eligible for most types of assistance, you must:

- Demonstrate a financial need,
- Be admitted to a UW-Stevens Point degree program,
- Not be in default on a student loan,
- Not have been convicted of selling or possessing illegal drugs (may be waived under some circumstances),
- Not owe a repayment on a student grant, and
- Be enrolled at least half time.

If you enroll less than full time, your financial aid may be reduced. Also, if you fail to make satisfactory academic progress, you will NOT be eligible to receive financial aid even though you may continue enrollment. Note that audited courses do NOT count toward credit load for financial aid eligibility.

You may be eligible for some types of aid (loans, jobs, scholarships) whether or not you can demonstrate need. However, since earnings from "regular" jobs may affect future aid eligibility, you should always consult the Financial Aid Office BEFORE seeking other work.

Financial Aid

When you apply for financial aid, you are considered for all programs listed below that are based upon need. You may also apply for other forms of assistance.

Grants and Walvers, Need-Based

- **Indian Student Assistance:** State awards up to \$1,100, that are usually matched with a tribal grant, to Wisconsin Indian students who show financial need.
- **Pell Grant:** Awards up to \$4,000 to undergraduates determined by the Pell Grant Administration based on need and the cost of room, board, and tuition.
- **Supplemental Educational Opportunity Grant:** Awards up to \$1,000 to exceptionally needy undergraduate students.
- **Wisconsin Handicapped Grant:** Awards up to \$1,800 to legally deaf or blind students.
- **Wisconsin Higher Education Grant:** Awards based on need up to \$1,677 per academic year as determined by the Wisconsin Higher Educational Aids Board.

- **Wisconsin Talent Incentive Program:** Awards up to \$1,200 to disadvantaged Wisconsin residents.
- **Nonresident Tuition Waiver:** A partial waiver of the nonresident fee for full-time students, based on need, debt, class level, and eligibility for other grants.

Loans, Need-Based

- **Perkins Loans:** Loans of up to \$2,000 annually, with a maximum total of \$15,000 for all undergraduate years. The graduate student cumulative maximum is \$30,000 which includes any amount borrowed for undergraduate study.
- **Need-based Stafford Loans:** \$2,625 the first year, \$3,500 the second, and up to \$5,500 in subsequent years, to an undergraduate maximum of \$23,000. Graduate students may borrow further, up to a cumulative total of \$65,500.

Loans, NOT Need-Based

- **Unsubsidized Stafford Loan:** Loans up to full educational cost less all other financial aid (including need-based Stafford Loans). The maximum amount that you may borrow is governed by the same limits as the regular need-based Stafford loan (except that the limits are higher for independent students: + \$4,000 for freshmen and sophomores; + \$5,000 for juniors and seniors; + \$10,000 for graduates).
- **PLUS Loan:** Loans of up to the cost of education less all other aid. These loans will be provided only by special request.

Jobs for Students

Need a job? The Student Involvement and Employment Office (SIEO), 011 University Center, 715-346-2174, works to connect students and employers. The SIEO lists jobs online at www.uwsp.edu/stuemploy viewable only by current UWSP students. The SIEO can assist you with the following employment programs:

- **Federal Work Study Program:** Eligibility is based on financial need. Jobs range from on-campus lab assistants, office staff, and intramural officials to off-campus positions in the Stevens Point School District, Parks and Recreation Department, and St. Michael's Hospital. You can view open positions at the SIEO Web site, www.uwsp.edu/stuemploy.
- **Non-Work Study Jobs:** Over half of the on-campus positions are NOT work study, with many more opportunities off campus. Visit the SIEO Web site for listings of current positions.
- **Job Lists:** If you are not able to commit to regularly scheduled jobs, but are still interested in earning some extra money, you can sign up for any of the six job lists (child care, computer expert, tutor, waitstaff/bartending, one-time job, and on-campus) and be emailed about job openings in each category. Sign up for any of the lists at the SIEO Web site.
- **Cooperative Education Program:** In this program you are involved in part-time or full-time work which complements an academic major or career goals. Contact the Career Services Office, Room 134, Main Building, (715) 346-3226 for more information.

Scholarships

Miscellaneous Scholarships or Awards: There are several places you can go to get information about scholarships:

- The Admissions Office has information about scholarships for incoming freshmen.
- Check with curricular department offices for awards available for majors in specific courses of study.

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- The Alumni Relations Office, Room 208, Main Building, has information about general scholarships for sophomore, junior, senior, and nontraditional students.

Military Scholarships

Army ROTC Scholarship: Army ROTC offers you several opportunities for scholarships worth up to \$20,000 at UW-Stevens Point (in-state). The scholarships pay full tuition and major fees, \$600 per year book allowance (tax free), and \$250-400 (tax free, amount increases yearly) per school month for living expenses. High school students may compete for a four-year scholarship. On-campus students may apply for Campus Based two- and three-year scholarships. All ROTC cadets receive the \$350-400 monthly allowance during their two years in the advanced courses, plus pay for all summer training. For more information contact the Military Science Department, Room 204 Student Services Center, phone 715-346-3821, e-mail rotc@uwsp.edu, or visit our Web site at www.uwsp.edu/rotc.

Simultaneous Member Program: This program allows you to participate in ROTC and the Army Reserve or National Guard as "officer trainees" to gain even more experience and financial support. Currently, nonscholarship cadets belonging to the Wisconsin Army National Guard or the Army Reserve receive up to 100 percent of their college tuition for eight semesters. For more information contact the Military Science Department, Room 204 Student Services Center, phone 715-346-3821, e-mail rotc@uwsp.edu, or visit our Web site at www.uwsp.edu/rotc.

Leader Training Course: This obligation free, 28-day summer camp is held in Fort Knox, Kentucky. It is a "catch-up" program for students who have not taken the first two years of ROTC classes. Upon completion of the camp, you receive \$600 and 10 GDR elective credits, as well as a guaranteed two-year scholarship. For more information contact the Military Science Department, Room 204 Student Services Center, phone 715-346-3821, e-mail rotc@uwsp.edu, or visit our Web site at www.uwsp.edu/rotc.

Special Fee Remission Consideration

There are a limited number of partial and full tuition fee remissions available for outstanding new nonresident students annually. To qualify, applicants must (1) be nominated by a university faculty or staff member and show evidence of academic excellence as reflected in a high school class rank in the top 20 percent or better; OR (2) present at least a 3.50 high school grade point average, or an ACT score of 25 or better and demonstrate evidence of outstanding co-curricular and extracurricular leadership, or artistic, dramatic, or musical special talent. This type of fee remission is not based on need and may be renewed. Special consideration will be given to students reflecting potential contributions to university cultural diversity leadership. Send nominations and applications each year after March 1 to the University Special Fee Remission Committee, Room 134, Old Main Building.

Military Service Benefits

A variety of financial aid programs helps veterans and students in active reserve or in the National Guard. Full information on these programs is available at County Veterans Services Offices. In Stevens Point, the phone number is 715-346-1310. Assistance is also available in the Registration and Records Office, Room 101, Student Services Center, 715-346-4301.

Tuition and Fees

This is what students paid per semester when they enrolled for the 2002-03 school year. The costs will change during the life of this catalog. To find out the most current costs, visit the Accounts Receivable Office, Room 003, Student Services Center, or call 715-346-4796.

NOTE: To receive the Minnesota rate, apply for reciprocity at the appropriate Minnesota agency. Your high school counselor can give you information.

Wisconsin Residents

Credits	U-grad		Grad	
	Costs*	Costs*	Costs*	Costs*
1	\$ 181.75	\$ 292.95	\$ 181.75	\$ 292.95
2	356.45	578.85	356.45	578.85
3	531.15	864.75	531.15	864.75
4	705.85	1,150.65	705.85	1,150.65
5	880.55	1,436.55	880.55	1,436.55
6	1,036.85	1,704.05	1,036.85	1,704.05
7	1,166.90	1,945.30	1,166.90	1,945.30
8	1,296.95	2,186.55	1,296.95	2,186.55
9	1,427.00	2,427.80	1,427.00	2,427.80
10	1,557.05		1,557.05	
11	1,687.10		1,687.10	
12-18	1,817.15		1,817.15	
per cr (19+)	125.00		125.00	

All Others (except Minnesota)

Credits	U-grad		Grad	
	Costs*	Costs*	Costs*	Costs*
1	\$ 600.35	\$ 882.40		
2	1,193.65	1,757.75		
3	1,786.95	2,633.10		
4	2,380.25	3,508.45		
5	2,973.55	4,383.80		
6	3,548.45	5,240.75		
7	4,097.10	6,071.45		
8	4,645.75	6,902.15		
9	5,194.40	7,732.85		
10	5,743.05			
11	6,291.70			
12-18	6,840.35			
per cr (19+)	543.60			

*The total cost includes tuition (also called the incidental fee) and eight segregated fees: University Center fee for the UW-Stevens Point campus centers, student activity fee for recreational activities and services, text rental fee (for undergraduates only), comprehensive software environment, student health fee for medical care, municipal service fee for various utility services, health enhancement fee for the construction and use of the Health Enhancement Center, and United Council fee. For a more complete breakdown, call the Accounts Receivable Office, Room 003, Student Services Center, 715-346-4796.

The \$1.35 United Council fee funds the United Council of UW Student Governments. The Council consists of representatives from all UW campuses, lobbies on behalf of students, and works to improve student life and services throughout the UW System. If you want a refund of your \$1.35 United Council fee, write to the United Council of UW Student Governments, Room 305, 1930 Monroe Street, Madison, WI 53711. If you are 62 years of age or older, are auditing courses, or are taking off-campus courses, you are exempt from the United Council fee.

**The cost of courses offered by UWSP Extension varies by location. Please check the current UWSP Extension course schedule for the correct amount.

Wisconsin Residency Requirements

Section 36.27(2) of the Wisconsin State Statutes (below) lists all the requirements for Wisconsin residency. It is your responsibility to register correctly as a resident or nonresident. Contact the Admissions Office, Room 102, Student Services Center, 715-346-2441, for interpretation and further information about your proper residency classification. If you wish to request a change in your residency classification, contact the Admissions Office for the proper forms.

Minnesota Residents: If you meet Minnesota residency requirements at a public institution in Minnesota, you may be eligible to pay the established reciprocity fee for coursework taken at UWSP. Contact the UWSP Admissions Office, Room 102, Student Services Center, for more information.

Wisconsin Statutes Section 36.27(2):

(a) Students qualifying under any of the following categories, while they continue to be residents of this state, are entitled to exemption from nonresident tuition but not from incidental or other fees:

Adult students: Any adult student who has been a bona fide resident of the state for 12 months next preceding the beginning of any semester or session for which such student registers at an institution, OR any adult student who is a dependent of his or her parents under 26 USC 152(a) if one or both of the student's parents have been bona fide residents of this state for at least 12 months next preceding the beginning of any semester or session for which the student registers at an institution.

Minors: Any minor student, if one or both of the student's parents have been bona fide residents of this state for at least 12 months next preceding the beginning of any semester or session for which the student registers at an institution; OR any minor student who has resided substantially in this state during the years of minority and at least 12 months next preceding the beginning of any semester or session for which such student registers at an institution.

Minors under guardianship: Any minor student under guardianship in this state pursuant to ch. 48 or 880 whose legal guardian has been a bona fide resident of this state for at least 12 months next preceding the beginning of any semester or session for which such student registers at an institution.

Migrant workers: Any adult student who has been employed as a migrant worker for at least two months each year for three of the five years next preceding the beginning of any semester or session for which the student registers at an institution, or for at least three months each year for two of the five years next preceding the beginning of any semester or session for which the student registers at an institution; any adult student whose parent or legal guardian has been so employed while the student was a minor; and any minor student whose parent or legal guardian has been so employed. In this subdivision, "migrant worker" has the meaning specified in 103.90(5).

Refugees: (am) Any person who is a refugee, as defined under 8 USC 1101(a)(42), who moved to this state immediately upon arrival in the United States and who has resided in this state continuously since then is entitled to the exemption under par. (a) if he or she demonstrates an intent to establish and maintain a permanent home in Wisconsin according to the criteria under par. (e).

Armed forces, nonresident: (b) Nonresident members of the armed forces and persons engaged in alternative service who are stationed in this state on active duty and their spouses and children are entitled to the exemption under par. (a) during the period that such persons are stationed in this state.

Armed forces, resident: (b) Members of the armed forces who reside in this state and are stationed at a federal military installation located within 90 miles of the borders of this state, and their spouses and children, are entitled to the exemption under par. (a).

Veterans: Nonresident persons who served in active duty in the U.S. Armed Forces for at least 10 years, who were honorably discharged from such service within four years before registering at an institution, and who filed state income taxes for at least 8 of the last 10 years of active duty in the U.S. Armed Forces, and their spouses and children are entitled to exemption under par. (a).

Graduates of Wisconsin high schools: (c) Any student who is a graduate of a Wisconsin high school and whose parents are bona fide residents of this state for 12 months next preceding the beginning of any semester or session for which the student registers at an institution or whose last surviving parent was a bona fide resident of this state for the 12 months preceding death is entitled to the exemption under par. (a).

Relocate for employment purposes: (cm) Any person continuously employed full time in this state, who was relocated to this state by his or her current employer or who moved to this state for employment purposes and accepted his or her current employment before applying for admission to an institution or center and before moving, and the spouse and dependents of any such person, are entitled to the exemption under par. (a) if the student demonstrates an intent to establish and maintain a permanent home in Wisconsin according to the criteria under par. (e). In this paragraph, "dependents" has the meaning given in 26 USC 152(a).

General residency information: (d) Any person who has not been a bona fide resident of the state for 12 months next preceding the beginning of any semester or session for which such person registers at an institution, except as provided in this subsection, is not exempt from the payment of the nonresident tuition.

Determining eligibility to pay resident fees: (e) In determining bona fide residence at the time of the beginning of any semester or session and for the preceding 12 months, the intent of the person to establish and maintain a permanent home in Wisconsin is determinative. In addition to representations by the student, intent may be demonstrated or disproved by factors including, but not limited to, timely filing of a Wisconsin income tax return of a type that only full-year Wisconsin residents may file, voter registration in Wisconsin, motor vehicle registration in Wisconsin, possession of a Wisconsin driver's license, place of employment, self-support, involvement in community activities in Wisconsin, physical presence in Wisconsin for at least 12 months preceding the beginning of the semester or session for which the student registers, and, if the student is not a U.S. citizen, possession of a visa that permits indefinite residence in the United States. Notwithstanding par. (a), a student who enters and remains in this state principally to obtain an education is presumed to continue to reside outside this state and such presumption continues in effect until rebutted by clear and convincing evidence of bona fide residence.

Appeals: (2m) APPEALS. Any body designated by the board to hear appeals regarding nonresident tuition exemptions under sub. (2) may require a student who has been granted such an exemption to submit information from which the body may determine the student's continuing eligibility for the exemption, the student's eligibility for a different exemption, or the student's residency status.

Billing and Payment of Tuition/Fees

You may pay for your tuition and fees in either of two ways:

- Full Payment Plan:** If you elect this plan, pay your tuition and fees before the first day of classes. If you delay payment until after the first week, you will have to pay a \$75 penalty. If you don't pay by the third week, your registration at UW-Stevens Point will be cancelled.
- Partial Payment Plan:** If you choose this plan, you pay your fees, tuition, and miscellaneous charges in three installments: on the first day of classes, about the seventh week of classes, and about the eleventh week of classes. However, you pay a finance charge for each billing period in which you have not paid the balance in full by the billing due date. You also pay the same late payment penalties that you would under the full payment plan.

Please note that if you withdraw from school before paying in full, you must still pay whatever amount is due for the semester. See the **Refund Schedule** below for information on how much you pay, depending on the point in the semester when you withdraw from UW-Stevens Point.

Finance Charges

Finance charges begin on the first day of classes. We calculate them on your previous balance (exclusive of

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previous finance charges) reduced by the payments you have made and credits we have applied during the billing period. We calculate the finance charge at the rate of .041095 percent per day (1.25 percent per month or 15 percent per year) on the portion of your balance that is \$500 or less. We calculate it at the rate of .032877 percent per day, (1 percent per month or 12 percent per year) on the portion of your balance that is over \$500.

If you are an undergraduate special student, graduate special student or graduate student, you will be billed according to the course level credits for which you enroll. Courses numbered 100 to 499 are undergraduate courses; courses numbered 500 to 799 are graduate courses.

To avoid or reduce your finance charges, you may pay more than your required minimum payment at any time. You may also pay your remaining balance completely at any time.

Billing Under the Partial Payment Plan

1. First payment: On or before the first day of class, pay 100 percent of any previous balance plus finance charges and 40 percent of the current semester's charges.
2. Second payment: At about the seventh week of class, pay 50 percent of your new balance plus the finance charges.
3. Third payment: At about the 11th week of classes, pay 100 percent of the remaining balance plus all remaining finance charges.
4. Fourth payment: Pay any further charges plus all finance charges at about the 15th week of classes.

We continue to add finance charges until you pay your balance in full. Until you pay, you receive no transcripts, or diplomas; you are also unable to enroll for future courses under the partial payment plan until you have paid in full.

Note that if you are more than 30 days late in paying on your account, we may withdraw you from UW-Stevens Point. We also reserve the right to change the due dates and amounts without giving previous notice.

Credit Agreement

Every student must sign a credit agreement card upon registration at UWSP. You only need to sign this card once during your enrollment period. Billing details are listed each timetable and in your registration materials.

If you make delayed payments from financial aid, loans, grants, scholarships or vocational rehabilitation awards, also sign the credit agreement application card. You are responsible for the finance charges on your unpaid balance.

Billing Errors

If you think your bill is wrong, write us a note about the error within 60 days of receiving your billing statement. Be sure to include your name, your student ID number, the amount of the error, and a brief explanation of why your bill is wrong. Mail the note to: Accounts Receivable Office, Room 003, Student Services Center, UW-Stevens Point, Stevens Point, WI 54481-3897.

If only part of your bill is wrong, then pay the correct portion of the bill by the due date.

Refund Schedule for Tuition and Fees

You must send **written** notification to the Registrar's Office as soon as you decide to cancel your enrollment at UW-Stevens Point. There is no fee assessed if you cancel your registration prior to the first day of the semester.

See the section of this catalog entitled **Withdrawing from UW-Stevens Point** for further information on this subject.

The table below tells what percentage of your tuition and fees we reduce when you completely withdraw from UW-Stevens Point after the first day of classes.

Session Length (wk)	Withdrawal during Week -				
	1	2	3	4	5+
12 or more	100%	100%	50%	50%	0
8 thru 11	100%	50%	25%	0	0
5 thru 7	100%	50%	0	0	0
3 and 4	100%	25%	0	0	0
2	100%	0	0	0	0

Fees for withdrawing are:

- \$50 for withdrawals effective the first week of classes.
- \$100 for withdrawals effective the second week of classes.

We use this same reduction schedule to determine how much money to refund if, when you drop one or more courses, you are less than a full-time student. If you both add and drop courses, we determine your reduced or additional tuition and fees on the basis of the total of your adds and drops. We never charge more than full-time tuition and fees.

On-Campus Living

At UW-Stevens Point, most students are required to live in residence halls until they have completed four semesters of college work. This is a UW System Board of Regents policy. If you are married, a veteran, living with your parents, or receive a special exemption because you have been out of high school two years or more, you need not comply with this requirement.

We estimate that for fall 2003, students will pay \$1171 each semester for a double room and \$1600 each semester for a single room in a residence hall. In the summer of 2003, students paid \$558 for a double room and \$750 for a single room.

As a hall resident, for a proposed cost of \$823 per semester in 2003-2004, you may select a meal plan which provides 20 meals per week plus 10 points; 14 meals per week plus 50 points; 10 meals plus 100 points; seven meals plus 165 points; or the All Points Plan. ("Points" are credits which allow you to eat anywhere on campus.) In summer 2003, the 14 meal plan cost \$472 and the five meal plan cost \$230.

Until your junior year, your residence hall contract covers your room and board for the entire academic year. As a junior, you may opt out of your contract at the end of first semester.

Refunds for Room and Board

If you want to receive a refund of \$100 of your room reservation deposit on an academic year contract, request it before July 1. If you want to receive a refund of your room reservation deposit on a second semester contract, request it before December 15. If you are a junior or senior using the one semester option, you must request a refund of your deposit by December 15; it will be refunded in January.

If you get married, student teach, or participate in curricular programs which require off-campus living, you may request to be released from your residence hall agreement. To do this, go to Residential Living Office in the 601 Division Street Building.

If you withdraw from UW-Stevens Point, you must also terminate your residence hall agreement. We prorate all refunds for room and board from the Sunday after you terminate your contract.

Majors, Minors, etc.

UW-Stevens Point offers the Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science, and Associate degrees. The list below includes majors ■, minors ●, concentrations, options, areas of emphasis, and other significant courses. Topics that are teacher certifiable are marked with ▲.

Accounting ● (see *Managerial Accounting*)
Adventure Education ●
Anthropology ●
Art ■ (Bachelor of Arts)
Art ■ (Bachelor of Fine Arts) (Areas of Emphasis) Two-Dimensional, Three-Dimensional, Graphic Design.
Art History ●
Arts Management ■
Astronomy
Athletic Training ■
Biology ■ ● ▲ (Areas of Emphasis) Aquatic Biology, Biobusiness, Biotechnology, Botany, Ecology/Environmental, Education, Microbiology, Natural History, Zoo and Aquaria, Zoology (also see *Preprofessional*)
Business Administration ■ ● (Concentrations) Forest Recreation, Soil Science, Wood Products Industry, Technical Foreign Language: French/German/Spanish.
Captive Wildlife ● (also see *Wildlife*)
Chemistry ■ ● ▲ (Option) Polymer
Chemistry, ACS certified ■ (Option) Polymer
Child and Family Studies ●
Chinese
Clinical Laboratory Science ■ (Options) Medical Technology, Cytotechnology, Histotechnology.
Coaching ● ▲
Communication ■ ● (Areas of Emphasis) Interpersonal and Organizational, Media and Technology, Public Relations.
Communicative Disorders ■ ▲
Comparative Literature ●
Computer Information Systems ■ ● (Options) Business, Networking & Information Assurance, Web Site Development
Computer Science ● ▲
Conservation Biology ●
Dance (See *Theatre Arts*)
Dietetics ■
Drama (see *Theatre Arts*)
Early Childhood Education ■ ▲
Earth Science ● ▲
Economics ■ ● ▲
Education, Elementary ■ ▲
Education, Secondary Certifications ▲
Education, Exceptional ■ ● ▲
English ■ ● ▲
English as a Second Language ● (Also see *Teaching English as a Second Language*)
English as Second Language Program
English for Elementary Education ● ▲

Environmental Communication ●
Environmental Education for Elementary and Middle School ● ▲
Environmental Educ/Interpretation ● (Also see *Resource Management*)
Environmental Law/Enforcement ●
Environmental Studies ●
Family and Consumer Education ■ ▲ (Options) Teacher Education, Family Life Education
Forest Recreation ●
Forestry ■ ● (Options) Administration and Use, Management, Recreation, Urban, Ecosystem Restoration and Management
French ■ ● ▲ Cultural Studies Concentration
General Studies ■ (Options) Contemporary America, World of Work
Geographic Information Systems and Spatial Analysis ●
Geography ■ ● ▲ (Options) Cartography, Physical Environment, Regional Analysis and Community Development
Geology ●
German ■ ● ▲ Cultural Studies Concentration
Gerontology ●
Health Education ● ▲
Health Promotion ■ (Wellness)
History ■ ● ▲ (Areas of Emphasis) European, Non-Western, United States. (Concentration) Minority and Ethnic Studies
Individually Planned Major ■
Instructional Resources
Interior Architecture ■
International Resource Management ●
International Studies ■ ● (Concentrations) Africa & Middle East; Asia; Australia, New Zealand, SW Pacific; Europe; Latin America; Russia & Eastern Europe; Global Studies; American Studies (foreign students)
Japanese
Land Use Planning ● (Also see *Resource Management*)
Managerial Accounting ■
Mathematics ■ ● ▲ (Area of Emphasis) Actuarial
Mathematics, Applied ●
Mathematics for Elementary Educ ● ▲
Medical Technology (See *Clinical Laboratory Science*)
Military Science (Army ROTC) ●
Museum Techniques ●
Music ■ ▲ (Bachelor of Music) (Options) *Applied*—Piano, Voice, String, Wind, Percussion; *Jazz*—Performance, Composition/Arranging; *Education*—Instrumental, Choral, General; *Music Literature*
Music ■ (Bachelor of Arts)
Music ●
Musical Theatre (See *Theatre Arts*)
Native American/Rural Social Work ●
Native American Studies ●
Natural Science ■ ▲ (Options) Earth Science, Life Science, Physical Science

Natural Science, Broad-field ●
Nursing (Degree through UW-Eau Claire in cooperation with St. Joseph's Hospital-Marshfield and UWSP)
Nutrition ●
Paper Science ■
Peace Studies ●
Philosophy ■ ● (Concentrations) Religious Studies, Environmental Ethics
Physical Education ■ ▲
Physical Education for Exceptional Individual ▲
Physics ■ ● ▲
Political Science ■ ● ▲
Preprofessional (Areas of Emphasis) Chemical Engineering, Chiropractic, Dental, Engineering, Law, Medical, Mortuary, Nursing, Occupational Therapy, Optometry, Pharmacy, Physical Therapy, Physician Assistant, Veterinary
Psychology ■ ● ▲ Human Services Concentration
Public Administration and Policy Analysis ■ ●
Religious Studies ● (Also see *Philosophy*)
Resource Management ■ ● ▲ (Options) Environmental Education/Interpretation, General, Land Use Planning, Youth Programming and Camp Management
Russian
Safety and Health Protection ●
Scientific and Technical Writing ●
Small City Analysis ●
Social Science ■ ●
Social Science, Broad-field ■ ● ▲
Social Science in Health ●
Social Work, Native American/Rural ●
Sociology ■ ● ▲ (Concentrations) Adult Life and Aging, Applied Sociology.
Soil and Waste Resources ■ ● (Options) Soil and Land Management, Soil Science, Waste Management
Spanish ■ ● ▲ Cultural Studies Concentration
Teaching English as a Second Language ● ▲
Theatre Arts (Options) Dance ■ ●, Drama ■ ●, Musical Theatre ■
Undecided/Undeclared
Water Resources ■ ● (Options) Limnology and Fisheries, Watershed Hydrology and Management, Watershed Administration
Web & Digital Media Development ■ ●
Wellness (See *Health Promotion*)
Wildlife ■ ● (Options) Wildlife Ecology & Management, Wildlife Education
Women's Studies ●
Writing ●
Youth Programming and Camp Management ●

General Degree Requirements (GDR)

In addition to being academically prepared to pursue a specific career, UWSP graduates acquire a foundation of knowledge from the following areas.

Verbal and Quantitative Skills

Freshman English fosters the complementary skills of critical reading, logical thinking, effective research, and coherent writing. It develops facility at all stages of the composing process and improves ability to write effectively in a variety of writing situations.

Writing Emphasis (WE) provides instruction necessary to develop skills for appropriate and successful writing within a discipline or profession.

Communication (COMM) provides enhanced understanding of human communication and the ability to deliver effective presentations.

Mathematics (MATH) provides the knowledge to quantify and understand the real world using fundamental mathematics to analyze phenomena, construct models, solve problems, state conclusions, interpret statistics, and understand scientific topics.

Critical Thinking/Natural Science

Natural Science (NS) provides a broad understanding of the pure sciences and exposure to scientific methods for evaluating evidence from the natural world and shows how science relates to individuals and/or society at large. Courses develop skills to classify information, draw conclusions, infer relationships, solve problems, make predictions.

Critical Thinking/Cultural Awareness

Non-Western (NW) courses study peoples, countries, or regions that differ in fundamental ways from Western tradition and examine political, economic, intellectual, ethical and cultural values and structures that offer alternative approaches to these areas of human organization.

Minority Studies (MNS) courses consider the culture and history of various racial and ethnic groups such as African-American, Hispanic-American, Asian-American, and Native American and the historical or cultural relationships between them and the white majority culture in the U.S.

History (HI) provides an appreciation of human behavior and heritage over time and an understanding of the nature, development and interaction of cultures, societies, and civilizations.

Humanities (HU1, HU2, HU3, HU4) courses introduce enduring expressions of the human mind and culture and teach critical thinking, interpretive skills and historical perspectives for understanding and evaluating these expressions.

Social Science (SS1, SS2) develops understanding of human behavior, the structures of society and the interrelationships among social institutions and provides a framework for thoughtful and informed participation in society.

Foreign Language (FL) introduces second languages and increases knowledge of how language functions and cultures differ, leading toward greater understanding of peoples across national borders.

Environmental Literacy (EL) investigates the ways human societies interact with and affect the natural and biophysical environment.

Wellness (WL) introduces concepts of wellness, health issues, experiences and life skills to apply to personal lifestyles that promote health.

Assessment

As part of our continuing effort to improve curriculum and the delivery of instruction, we assess students both within their majors and in their general education. You are expected to participate in this assessment process.

General Degree Requirements

In this section you will find the general requirements (GDRs) you must meet in order to receive a baccalaureate degree from UW-Stevens Point. Check under the appropriate heading for information on the bachelor of arts (BA), bachelor of science (BS), or bachelor of music (BM) and bachelor of fine arts (BFA) degree.

Note that you meet different requirements for different degrees. In working toward a BA you emphasize foreign languages, the humanities, and history. In working toward a BS you concentrate more on mathematics and the natural sciences. And in working toward a BM or BFA you study a range of subjects that complement the curriculum in your major field.

Meet with your academic adviser for help in choosing your major. After choosing one, check with your adviser or your department chair for specific requirements of the department and college in which you major.

Note that we do not offer some of the GDR courses each semester or even each year. Check the current timetable. General degree requirements are satisfied only by completing the courses listed.

In some cases, your college may allow you to apply courses you take as part of your general degree requirements toward your major or minor. Your adviser will describe your college's policy on this. Your college may impose additional requirements.

Test-Out & Credit-by-Exam Policy

Each department that offers courses for general degree requirement credit has its own policy for test-out and/or credit-by-exam. Each policy states:

1. Whether you will be testing out of the requirement or also receiving credit.
2. The process for making exam arrangements.
3. The type of exam, passing grade, any additional requirements, and whether you can take the exam more than once.
4. Fees, if any. UWSP will charge a flat fee of \$20 per application to test-out or receive credit-by-exam for GDR courses for which departments devise their own exams. This should be paid to the department administering the test upon application for the exam.

Note that when you pass the approved **test-out** exam for a course, you don't earn credit, but the course applies toward fulfillment of that GDR. For example, if you test-out of Communication 101, you satisfy the Communication 101 GDR without enrolling in the course. There is no test-out for writing emphasis.

You must check with each department and follow their specific requirements for testing out and/or receiving credit-by-exam for general degree requirement courses. If you receive test-out or credit-by-exam approval for a course that meets multiple general degree requirements, passing the test will satisfy all GDR requirements that are designated for that course, excluding writing emphasis.

• English:

All entering freshmen take the freshman English entrance assessment which measures writing competence based on an essay composed at the university during orientation. If your performance on the writing assessment indicates superior writing ability, you may be exempt from English 101 and placed in English 150. Successful completion of English 150 then satisfies your freshman English requirement.

• Communication:

If you want to test out of Communication 101, make an appointment with the head of the Division of Communication. You must then schedule and take a written examination on the basic concepts in public speaking. If you receive a passing grade on this exam, you must deliver an eight minute original persuasive speech extemporaneously to a three-judge panel. If you receive an average grade of B or better on your oral presentation, you may either be exempt from Communication 101 or be placed in an advanced public speaking course. If you choose the second option and complete the course with a grade of B or better, you will receive 2 credits for Communication 101 as well as the credits for the course you complete.

• Foreign Language:

You may test out of part or all of the foreign language requirement by taking the UW System foreign language placement exam either at one of the regional testing centers or from the Foreign Language Department. You may also receive up to 16 credits for prerequisite courses by passing foreign language courses 102-313 with a grade of B- or better. For further information, contact the Foreign Language Department, Room 490, Collins Classroom Center, (715) 346-3036.

• Mathematics:

You take this exam during regional testing. The code number you receive from the exam is listed in the table below. This tells you which courses you still need to take to satisfy the general degree requirements in mathematics.

- ◆ If you are a new freshman, look up your code number on the chart below to determine which course you should register for. If you need help, check with the Student Academic Advising Center, Room 103, Student Services Center or talk to your adviser.
- ◆ If you are a transfer student, go to the Admissions Office to determine which course or code number you place into; then look up that course on this table.
- ◆ If you are placed into Math 90, begin the course the semester when you first enroll and remain continuously enrolled in the remedial courses until the requirement is complete.
- ◆ If you do not believe that your placement is accurate, you may petition once to participate in an alternate placement process.

You may take any of the following courses if your math placement is:

	For the B.A.	For the B.S. and B.M/B.F.A
1. 90	90, 100 or 105 ¹	90, 100, 4 cr beyond 100 ²
3. 100 ³ or 105	100 or 105 ¹	100, 4 cr beyond 100 ²
4. Any of 109, 111, 118 ⁴ , 119 ⁴ , 228, 355	Complete	4 cr beyond 100 ²
7. Any of 109, 111, 118 ⁴ , 228, 355	Complete	Complete
8. Any of 109, 111, 119 ⁴ , 228, 355	Complete	Complete
9. Any of 109, 111, 120, 228, 355	Complete	Complete
98. Your placement code is tentatively 4, but you could possibly obtain a code of 7, 8, or 9 by taking an additional placement exam. Get details from the Mathematics and Computing office.		
99. Your mathematics placement has not been determined. Do NOT register for any mathematics course before taking an additional placement exam. Get details from the Mathematics and Computing office.		

NOTES:

1. You may not earn credit in both Math 100 and 105. You may not earn credit in both Math 112 and 119.
2. Courses which will satisfy the "4 credits beyond 100" are Math 109, 111, 118, 355, and Math/Math Ed 338.
3. Math 100 is a prerequisite for Math 109, 111, 112, 118, 119, 228, and 355. Other courses in math have prerequisites at least 4 credits beyond 100, so students taking them will have already satisfied the GDR in math.
4. Math 118 (Precalculus Algebra) and Math 119 (Precalculus Trigonometry) are prerequisites for Math 120 (Analytic Geometry and Calculus I). If you receive placement code 8, you only need to complete Math 119 before taking Math 120. If you receive placement code 7, you only need to complete Math 118 before taking Math 120. If your math placement code is 4 or lower, you must complete both Math 118 and 119 before taking Math 120. In some cases, advisers may allow you to take 119 and 120 concurrently.

Bachelor of Arts General Degree Requirements

1. **Verbal and Quantitative Skills.** 7-11 credits + Writing Emphasis (WE) required.

A. **Freshman English.** 3-6 credits required: English 101 and 102, or 150 through placement. Also see note below.

Writing Emphasis (WE). 6 credits required. English 101 and 102 or 150 are prerequisites to WE courses. Individual departments may designate WE courses as part of the major. You may use WE courses simultaneously to fulfill electives, major requirements, or general degree requirements. See the timetable to find out which courses are offered for WE each semester.

If you are a transfer student with fewer than 60 semester credits, you must take 6 credits of writing emphasis courses. If you transfer with 60 or more credits, you need to take only 3 credits of writing emphasis courses. A course completed at another institution that is OFFICIALLY designated as a WE course will count toward the WE requirement at UWSP.

Six WE credits are required, but they are NOT part of the GDR total. There is no test-out or credit-by-exam for WE.

B. **Communication.** 2 credits required; Communication 101.

C. **Mathematics.** 3 credits required; Mathematics 100. See note below.

NOTE: You must complete the general degree requirements you need (according to your placement scores) from Mathematics 100, 105 and English 101, 102, 150 before you complete 60 credits toward graduation. If by the 60 credit limit, you have not complied with this policy, you will be allowed to register for a maximum of 12 credits. Those 12 credits must include the mathematics and English general degree requirement courses you lack.

If you are placed into REMEDIAL mathematics, you must complete those remedial courses before you earn 30 credits toward graduation. If you do not, you will be restricted to a maximum of 12 credits a semester, including the remedial courses, until the requirement is met.

2. **Critical Thinking/Natural Science.** 6-10 credits required. You must take at least one laboratory course in each of two disciplines. See the catalog under the specific natural science department or under your major to determine what sequence of courses to take and what restrictions apply for taking more than one course in a discipline.

Astronomy 100, 205, 206.

Biology 100 or 101, 130, 160, 285.

Chemistry 100 or 101, 105, 106, 114/115, 116.

Geography 100EL, 101.

Geology 100, 104.

Physics 100 or 101, 115, 150, 203, 204, 250.

3. **Critical Thinking/Cultural Awareness.** 32 credits required. You must take at least one course designated non-Western (NW) culture and at least one course designated minority studies (MNS). Although a course may be designated both NW and MNS, you may not satisfy both requirements with one course.

Non-Western Culture. One course required.

Anthropology 101, 110, 125, 315, 320, 335, 338, 339, 345, 380; Art 181, 346; Chinese 101, 102, 200, 201; Communication 364; English 281, 374; Geography 110, 113, 120, 300, 302; History 101, 102, 215, 216, 219, 220, 253, 254, 318, 319, 326, 327, 329, 337, 338, 340, 341, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 381; Interior Architecture 150, 310; Japanese 101, 102, 211, 212, 313; Philosophy 105, 230, 381; Political Science 160, 362, 370, 371, 372; Religious Studies 100, 105, 316, 340, 341; Russian 101, 102, 211, 215, 216, 315, 316; Sociology 343; Spanish 383.

Minority Studies. One course required. Anthropology 371; English 280, 282, 382, 386; History 130, 381, 382, 384, 385; Interior Architecture 160; Music, 105; Philosophy 381; Political Science 202, 315, 408, 414; Psychology 322; Religious Studies 102, 311, 316; Sociology 101, 102, 270, 316; Spanish 382, 480; Women's Studies 105, 320.

A. **History.** 6 credits of a two-course sequence required. History 101-102NW, 105-106, 106-107, 107-108, 211-212, 215-216NW, 219-220NW, 253-254NW, 337-338NW, 345-346NW.

Humanities and Social Science. 18 credits required, of which 9 must be in humanities and 6 must be in social science. The remaining 3 credits are from either group.

B. **Humanities.** 9-12 credits. One course required in each of areas (1), (2), and (3). If you elect 12 credits in the humanities, you may select the additional course from any of the four areas.

Humanities Area 1

History and appreciation of art, communication, dance, theatre, music:

Art 181NW, 282, 283, 346NW, 397.

Communication 160, 171, 190, 250, 360, 361, 362.

Dance 352.

Interior Architecture 150NW, 160MNS, 309, 310NW.

Music 100, 103, 105MNS, 220, 221, 300, 301, 307, 320, 323, 326, 329, 427.

Technology and New Media Arts 300.

Theatre 105, 329, 351, 352, 361, 362, 451, 452, 490.

Humanities Area 2

Literature:

Comparative Literature 101, 102, 317.

English 106, 108, 200, 211, 212, 213, 214, 280MNS, 281NW, 282MNS, 283, 285, 286, 288, 289, 308, 309, 310, 311, 312, 313a, 313b, 314, 319, 320, 329, 330, 333, 334, 336, 361, 362, 363, 364, 365, 366, 374NW, 378, 382MNS, 383, 385, 386.

French 340.

German 340.

Russian 360NW, 370NW.

Spanish 340.

Humanities Area 3

Philosophy, religious studies, and political theory:
History 380.

Philosophy 100, 101, 105NW, 121, 230NW, 302, 305, 306, 307, 315, 320, 325, 326, 327, 336, 380EL, 381NW/MNS.

Political Science 391, 393, 394.

Religious Studies 100NW, 101, 102MNS, 105NW, 301, 302, 303, 304, 311MNS, 316NW/MNS, 321, 330, 340, 341NW.

Humanities Area 4

Civilization, area studies, and interdisciplinary courses:

Foreign Language 381.

French 381.

German 381.

History 304, 305, 306, 339, 340NW, 341NW, 344NW, 347NW, 349NW, 351NW, 352NW.

International Studies 381.

Peace Studies 200.

Russian 381NW.

Spanish 381, 382MNS, 383NW.

Women's Studies 300, 320MNS.

- C. **Social Science.** 6-9 credits required, from two or more social science disciplines, with a minimum of 6 credits in category (1) and up to 3 additional credits from courses in category (1) or category (2). Note that you may not count both Human Development 261 and Psychology 260 toward the social science requirement. You may not earn credit in both Political Science 101 and 201.

Social Science Category 1

Anthropology 101NW, 110NW, 125NW, 315NW, 320NW, 325, 335NW, 338NW, 339NW, 345NW, 380NW.

Economics 210, 211.

Geography 110NW, 113NW, 120NW, 211, 226, 300NW, 302NW, 328.

Political Science 101, 160NW, 180, 201, 202MNS, 212, 242, 250, 315MNS, 341, 361, 362NW, 370NW, 371NW.

Psychology 110, 240, 260, 320, 330.

Sociology 101MNS, 102MNS, 224, 225, 230, 240, 270MNS, 300, 310, 327, 360EL.

Social Science Category 2

Clinical Lab Science 105.

Communication 240, 280.

Geography 342.

Human Development 166, 261, 265, 367.

Natural Resources 150EL, 372.

Political Science 306.

Sociology 308, 355EL, 366, 368.

Women's Studies 105MNS, 301.

- D. **Foreign Language.** 8 credits; one year of college work in one of these sequences:
Chinese 101-102NW.
French 101-102.
German 101-102.
Japanese 101-102NW.
Russian 101-102NW.
Spanish 101-102.

4. **Environmental Literacy.** 3 credits. Choose one:

Art 398.

Clinical Lab Science 395.

English 392.

Food and Nutrition 357.

Geography 100, 329, 371.

History 366.

Human Development 381.

Interior Architecture 313.

Natural Resources 150, 370, 395.

Philosophy 380.

Political Science 304, 305.

Psychology 321.

Safety and Health Protection 330.

Sociology 355, 360.

5. **Wellness.** 3 credits required.

A. Take 1 or 2 credits in **aerobics/activity** (AA) from the following:

Dance 103, 104, 105, 106, 112, 114, 115, 203, 204, 205, 206, 212, 214, 215, 303, 304, 305, 306, 314, 315.

Physical Education 231.

Wellness 100 to 299 (labeled AA in the timetable).

B. Take 1 or 2 credits in **health enhancement** (HE) from the following:

Food and Nutrition 151.

Health Education 140, 280.

Health Promotion/Wellness 102, 103, 106, 107, 110, 142, 143, 148, 149, 206, 207, 299.

Psychology 255, 290.

Wellness 100 to 299 (labeled HE in the timetable).

6. **Minimum Credits for Graduation.** To graduate, you must earn at least 120 credits in your major and approved electives. In certain majors, you'll need more than 120 credits. Read the section in this catalog entitled **Courses of Instruction** to find out how many credits your major requires.
7. **Forty Credit Rule.** To graduate, you must earn at least 40 credits in courses numbered 300 or above.
8. **Graduation Form and Approval.** Fill out an "Application for Graduation" form ONE YEAR before your planned graduation date. We will grant you a bachelor's degree only if you complete the general degree requirements and at least one major (and one minor if applicable) that is approved for your degree area.

Be sure to check the current timetable for the most up-to-date list of general degree requirement offerings.

Bachelor of Science General Degree Requirements

1. **Verbal and Quantitative Skills.** 11-14 credits + Writing Emphasis (WE) required.

A. **Freshman English.** 3-6 credits required: English 101 and 102, or 150 through placement. Also see note below.

Writing Emphasis (WE). 6 credits required. English 101 and 102 or 150 are prerequisites to WE courses. Individual departments may designate WE courses as part of the major. You may use WE courses simultaneously to fulfill electives, major requirements, or general degree requirements. See the timetable to find out which courses are offered for WE each semester.

If you are a transfer student with fewer than 60 semester credits, you must take 6 credits of writing emphasis courses. If you transfer with 60 or more credits, you need to take only 3 credits of writing emphasis courses. A course completed at another institution that is OFFICIALLY designated as a WE course will count toward the WE requirement at UWSP.

Six WE credits are required, but they are NOT part of the GDR total. There is no test-out or credit-by-exam for WE.

B. **Communication.** 2 credits required: Communication 101.

C. **Mathematics.** 7 credits required: Mathematics 100 plus 4 credits from Mathematics 109, 111, 118, 338, 355, Math Ed 338.

NOTE: You must complete the general degree requirements you need (according to your placement scores) from Mathematics 100, 105 and English 101, 102, 150 before you complete 60 credits toward graduation. If, by the 60 credit limit, you have not complied with this policy, you will be allowed to register for a maximum of 12 credits. Those 12 credits must include the mathematics and English general degree requirement courses you lack.

If you are placed into REMEDIAL mathematics, you must complete those remedial courses before you earn 30 credits toward graduation. If you do not, you will be restricted to a maximum of 12 credits a semester, including the remedial courses, until the requirement is met.

2. **Critical Thinking/Natural Science.** 12-15 credits required. You may receive GDR credit for no more than one course numbered 100, and you must take at least one laboratory course in each of two disciplines. See the catalog under the specific natural science department or under your major to determine what sequence of courses to take and what restrictions apply for taking more than one course in a discipline.

Astronomy 100 or 311 (no lab), 205, 206.
Biology 100 or 101, 130, 160, 202 (no lab), 285.
Chemistry 100 or 101, 105, 106, 114 and 115, 116.
Geography 100EL, 101, 340 (no lab).
Geology 100, 104.
Physics 100 or 101, 115, 150, 203, 204, 250.

3. **Critical Thinking/Cultural Awareness.** 21 credits required. You must take at least one course designated non-Western (NW) culture, and at least one designated minority studies (MNS). Although a course may be designated both NW and MNS, you may not satisfy both requirements with one course.

Non-Western Culture. One course required.

Anthropology 101, 110, 125, 315, 320, 335, 338, 339, 345, 380; Art 181, 346; Chinese 101, 102, 200, 201; Communication 364; English 281, 374; Geography 110, 113, 120, 300, 302; History 101, 102, 215, 216, 219, 220, 253, 254, 318, 319, 326, 327, 329, 337, 338, 340, 341, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 381; Interior Architecture 150, 310; Japanese 101, 102, 211, 212, 313; Philosophy 105, 230, 381; Political Science 160, 362, 370, 371, 372; Religious Studies 100, 105, 316, 340, 341; Russian 101, 102, 211, 215, 216, 315, 316; Sociology 343; Spanish 383.

Minority Studies. One course required. Anthropology 371; English 280, 282, 382, 386; History 130, 381, 382, 384, 385; Interior Architecture 160; Music, 105; Philosophy 381; Political Science 202, 315, 408, 414; Psychology 322; Religious Studies 102, 311, 316; Sociology 101, 102, 270, 316; Spanish 382, 480; Women's Studies 105, 320.

A. **History.** 3 credits from History 101NW, 102NW, 105, 106, 107, 108, 211, 212, 215NW, 216NW, 219NW, 220NW, 253NW, 254NW, 335, 337NW, 338NW, 345NW, 346NW, 366EL.

Humanities and Social Science. 18 credits required, of which 6 must be in humanities and 6 must be in social science. The remaining 6 credits can be from either group.

B. **Humanities.** 6-12 credits. Select courses from at least two of the following areas, and apply no more than 3 credits of history from area 4.

Humanities Area 1

History and appreciation of art, communication, dance, theatre, music:

Art 181NW, 282, 283, 346NW, 397.
Communication 160, 171, 190, 250, 360, 361, 362.

Dance 352.

Interior Architecture 150NW, 160MNS, 309, 310NW.

Music 100, 103, 105MNS, 220, 221, 300, 301, 307, 320, 323, 326, 329, 427.

Technology and New Media Arts 300.

Theatre 105, 329, 351, 352, 361, 362, 451, 452, 490.

Humanities Area 2

Literature:

Comparative Literature 101, 102, 317.

English 106, 108, 200, 211, 212, 213, 214, 280MNS, 281NW, 282MNS, 283, 285, 286, 288, 289, 308, 309, 310, 311, 312, 313a, 313b, 314, 319, 320, 329, 330, 333, 334, 336, 361, 362, 363, 364, 365, 366, 374NW, 378, 382MNS, 383, 385, 386.

French 340.

German 340.

Russian 360NW, 370NW.

Spanish 340.

Humanities Area 3

Philosophy, religious studies, and political theory:
History 380.

Philosophy 100, 101, 105NW, 121, 230NW, 302, 305, 306, 307, 315, 320, 325, 326, 327, 336, 380EL, 381NW/MNS.

Political Science 391, 393, 394.

Religious Studies 100NW, 101, 102MNS, 105NW, 301, 302, 303, 304, 311MNS, 316NW/MNS, 321, 330, 340, 341NW.

Humanities Area 4

Civilization, area studies, and interdisciplinary courses:

Foreign Language 381.

French 381.

German 381.

History 304, 305, 306, 339, 340NW, 341NW, 344NW, 347NW, 349NW, 351NW, 352NW.

International Studies 381.

Peace Studies 200.

Russian 381NW.

Spanish 381, 382MNS, 383NW.

Women's Studies 300, 320MNS.

- C. **Social Science.** 6-12 credits required, from two or more social science disciplines, with a minimum of 6 credits in category (1) and up to 6 additional credits from courses in category (1) and/or category (2). Note that you may not count both Human Development 261 and Psychology 260 toward the social science requirement. You may not earn credit in both Political Science 101 and 201.

Social Science Category 1

Anthropology 101NW, 110NW, 125NW, 315NW, 320NW, 325, 335NW, 338NW, 339NW, 345NW, 380NW.

Economics 210, 211.

Geography 110NW, 113NW, 120NW, 211, 226, 300NW, 302NW, 328.

Political Science 101, 160NW, 180, 201, 202MNS, 212, 242, 250, 315MNS, 341, 361, 362NW, 370NW, 371NW.

Psychology 110, 240, 260, 320, 330.

Sociology 101MNS, 102MNS, 224, 225, 230, 240, 270MNS, 300, 310, 327, 360EL.

Social Science Category 2

Clinical Lab Science 105.

Communication 240, 280.

Geography 342.

Human Development 166, 261, 265, 367.

Natural Resources 150EL, 372.

Political Science 306.

Sociology 308, 355EL, 366, 368.

Women's Studies 105MNS, 301.

- D. **Foreign Language.** None required.

4. **Environmental Literacy.** 3 credits. Choose one:

Art 398.

Clinical Lab Science 395.

English 392.

Food and Nutrition 357.

Geography 100, 329, 371.

History 366.

Human Development 381.

Interior Architecture 313.

Natural Resources 150, 370, 395.

Philosophy 380.

Political Science 304, 305.

Psychology 321.

Safety and Health Protection 330.

Sociology 355, 360.

5. **Wellness.** 3 credits required.

A. Take 1 or 2 credits in **aerobics/activity** (AA) from the following:

Dance 103, 104, 105, 106, 112, 114, 115, 203, 204, 205, 206, 212, 214, 215, 303, 304, 305, 306, 314, 315.

Physical Education 231.

Wellness 100 to 299 (labeled AA in the timetable).

B. Take 1 or 2 credits in **health enhancement** (HE) from the following:

Food and Nutrition 151.

Health Education 140, 280.

Health Promotion/Wellness 102, 103, 106, 107, 110, 142, 143, 148, 149, 206, 207, 299.

Psychology 255, 290.

Wellness 100 to 299 (labeled HE in the timetable).

6. **Minimum Credits for Graduation.** To graduate, you must earn at least 120 credits in your major and approved electives. In certain majors, you'll need more than 120 credits. Read the section of this catalog entitled **Courses of Instruction** to find out how many credits your major requires.
7. **Forty Credit Rule.** To graduate, you must earn at least 40 credits in courses numbered 300 or above.
8. **Graduation Form and Approval.** Fill out an "Application for Graduation" form ONE YEAR before your planned graduation date. We will grant you a bachelor's degree only if you complete the general degree requirements and at least one major (and one minor if applicable) that is approved for your degree area.

Be sure to check the current timetable for the most up-to-date list of general degree requirement offerings.

Bachelor of Music/ Bachelor of Fine Arts General Degree Requirements

1. **Verbal and Quantitative Skills.** 11-16 credits + Writing Emphasis (WE) required.

A. **Freshman English.** 3-6 credits required: English 101 and 102, or 150 through placement. Also see note below.

Writing Emphasis (WE). 6 credits required. English 101 and 102 or 150 are prerequisites to WE courses. Individual departments may designate the remaining 3 credits of writing emphasis. You may use WE courses simultaneously to fulfill electives, major requirements, or general degree requirements. See the timetable to find out which courses we offer as WE each semester.

If you are a transfer student with fewer than 60 semester credits, you must take 6 credits of writing emphasis courses. If you transfer with 60 or more credits, you need to take only 3 credits of writing emphasis courses. A course completed at another institution that is OFFICIALLY designated as a WE course will count toward the WE requirement at UWSP.

Six WE credits are required but they are NOT part of the GDR total. There is no test-out or credit-by-exam for WE.

B. **Communication.** 2 credits required: Communication 101.

C. **Mathematics/Foreign Language.** Choose one of these two options:

- **Mathematics:** 0-7 credits required: Mathematics 100 plus 4 credits from Mathematics 109, 111, 118, 338, 355, Math Ed 338. See note below.
- **Foreign Language:** 0-8 credits required: (in addition to placement into Math 100) one year of college work in one of the following sequences:
Chinese 101-102NW.
French 101-102.
German 101-102.
Japanese 101-102NW.
Russian 101-102NW.
Spanish 101-102.

NOTE: You must complete the general degree requirements you need (according to your placement scores) from Mathematics 100, 105 and English 101, 102, 150 before you complete 60 credits toward graduation. If, by the 60 credit limit, you have not complied with this policy, you will be allowed to register for a maximum of 12 credits. Those 12 credits must include the mathematics and English general degree requirement courses you lack.

If you are placed into REMEDIAL mathematics, you must complete those remedial courses before you earn 30 credits toward graduation. If you do not, you will be restricted to a maximum of 12 credits a semester, including the remedial courses, until the requirement is met.

2. **Critical Thinking/Natural Science.** 6 credits required. Emphasis is on the exploration/ appreciation content of the 100 level sciences. You must take at least one laboratory course in each of two disciplines. See the catalog under the specific natural science department or under your major to determine what sequence of courses to take and what restrictions apply for taking more than one course in a discipline. If you are a BFA major in theatre/dance, take a physical lab course.

Astronomy 100, 205, 206.

Biology 100 or 101, 130, 160, 285.

Chemistry 100 or 101, 105, 106, 114/115, 116.

Geography 100EL, 101.

Geology 100, 104.

Physics 100 or 101, 115, 150, 203, 204, 250.

3. **Critical Thinking/Cultural Awareness.** 24 credits required. You must take at least one course designated non-Western (NW) culture, and at least one designated minority studies (MNS). Although a course may be designated both NW and MNS, you may not satisfy both requirements with one course. You need a historical basis from which to view the growth, development, and future of your art discipline in the United States, in addition to the required art history component in your professional curriculum. If you seek teacher certification, you need the two-course American history sequence (History 211-212).

Non-Western Culture. One course required.

Anthropology 101, 110, 125, 315, 320, 335, 338, 339, 345, 380; Art 181, 346; Chinese 101, 102, 200, 201; Communication 364; English 281, 374; Geography 110, 113, 120, 300, 302; History 101, 102, 215, 216, 219, 220, 253, 254, 318, 319, 326, 327, 329, 337, 338, 340, 341, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 381; Interior Architecture 150, 310; Japanese 101, 102, 211, 212, 313; Philosophy 105, 230, 381; Political Science 160, 362, 370, 371, 372; Religious Studies 100, 105, 316, 340, 341; Russian 101, 102, 211, 215, 216, 315, 316; Sociology 343; Spanish 383.

Minority Studies. One course required. Anthropology 371; English 280, 282, 382, 386; History 130, 381, 382, 384, 385; Interior Architecture 160; Music, 105; Philosophy 381; Political Science 202, 315, 408, 414; Psychology 322; Religious Studies 102, 311, 316; Sociology 101, 102, 270, 316; Spanish 382, 480; Women's Studies 105, 320.

A. **History.** 6 credits required. History 101NW, 102NW, 105, 106, 107, 108, 211, 212, 215NW, 216NW, 219NW, 220NW, 253NW, 254NW, 335, 337NW, 338NW, 345NW, 346NW, 366EL.

Humanities and Social Science. 18 credits required, of which 9 must be in humanities, and 6 must be in social science. The remaining 3 credits can be from either group.

B. **Humanities.** 9-12 credits. One course required in each of areas (1), (2), and (3). If you elect 12 credits in the humanities, you may select the additional course from any of the four areas.

Humanities Area 1: *History and appreciation of art, communication, dance, theatre, music:*

Art 181NW, 282, 283, 346NW, 397.

Communication 160, 171, 190, 250, 360, 361, 362.

Dance 352.

Interior Architecture 150NW, 160MNS, 309, 310NW.
 Music 100, 103, 105MNS, 220, 221, 300, 301, 307, 320, 323, 326, 329, 427.
 Technology and New Media Arts 300.
 Theatre 105, 329, 351, 352, 361, 362, 451, 452, 490.

Humanities Area 2: Literature:

Comparative Literature 101, 102, 317.
 English 106, 108, 200, 211, 212, 213, 214, 280MNS, 281NW, 282MNS, 283, 285, 286, 288, 289, 308, 309, 310, 311, 312, 313a, 313b, 314, 319, 320, 329, 330, 333, 334, 336, 361, 362, 363, 364, 365, 366, 374NW, 378, 382MNS, 383, 385, 386.
 French 340.
 German 340.
 Russian 360NW, 370NW.
 Spanish 340.

Humanities Area 3: Philosophy, religious studies, and political theory:

History 380.
 Philosophy 100, 101, 105NW, 121, 230NW, 302, 305, 306, 307, 315, 320, 325, 326, 327, 336, 380EL, 381NW/MNS.
 Political Science 391, 393, 394.
 Religious Studies 100NW, 101, 102MNS, 105NW, 301, 302, 303, 304, 311MNS, 316NW/MNS, 321, 330, 340, 341NW.

Humanities Area 4: Civilization, area studies, and interdisciplinary courses:

Foreign Language 381.
 French 381.
 German 381.
 History 304, 305, 306, 339, 340NW, 341NW, 344NW, 347NW, 349NW, 351NW, 352NW.
 International Studies 381.
 Peace Studies 200.
 Russian 381NW.
 Spanish 381, 382MNS, 383NW.
 Women's Studies 300, 320MNS.

- C. **Social Science.** 6-9 credits required, from two or more social science disciplines, with a minimum of 6 credits in category (1) and up to 3 additional credits from courses in category (1) or category (2). Note that you may not count both Human Development 261 and Psychology 260 toward the social science requirement. You may not earn credit in both Political Science 101 and 201.

Social Science Category 1

Anthropology 101NW, 110NW, 125NW, 315NW, 320NW, 325, 335NW, 338NW, 339NW, 345NW, 380NW.
 Economics 210, 211.
 Geography 110NW, 113NW, 120NW, 211, 226, 300NW, 302NW, 328.
 Political Science 101, 160NW, 180, 201, 202MNS, 212, 242, 250, 315MNS, 341, 361, 362NW, 370NW, 371NW.
 Psychology 110, 240, 260, 320, 330.
 Sociology 101MNS, 102MNS, 224, 225, 230, 240, 270MNS, 300, 310, 327, 360EL.

Social Science Category 2

Clinical Lab Science 105.
 Communication 240, 280.
 Geography 342.
 Human Development 166, 261, 265, 367.
 Natural Resources 150EL, 372.
 Political Science 306.
 Sociology 308, 355EL, 366, 368.
 Women's Studies 105MNS, 301.

4. **Environmental Literacy.** 3 credits. Choose one:
 Art 398.
 Clinical Lab Science 395.
 English 392.
 Food and Nutrition 357.
 Geography 100, 329, 371.
 History 366.
 Human Development 381.
 Interior Architecture 313.
 Natural Resources 150, 370, 395.
 Philosophy 380.
 Political Science 304, 305.
 Psychology 321.
 Safety and Health Protection 330.
 Sociology 355, 360.
5. **Wellness.** 3 credits required.
 A. Take 1 or 2 credits in **aerobics/activity** (AA) from the following:
 Dance 103, 104, 105, 106, 112, 114, 115, 203, 204, 205, 206, 212, 214, 215, 303, 304, 305, 306, 314, 315.
 Physical Education 231.
 Wellness 100-299 (labeled AA in the timetable).
 B. Take 1 or 2 credits in **health enhancement** (HE) from the following:
 Food and Nutrition 151.
 Health Education 140, 280.
 Health Promotion/Wellness 102, 103, 106, 107, 110, 142, 143, 148, 149, 206, 207, 299.
 Psychology 255, 290.
 Wellness 100-299 (labeled HE in timetable).
6. **Minimum Credits for Graduation.** To graduate, you must earn at least 120 credits in your major and approved electives. In certain majors, you'll need more than 120 credits. Read the section of this catalog entitled **Courses of Instruction** to find out how many credits your major requires.
7. **Forty Credit Rule.** To graduate, you must earn at least 40 credits in courses numbered 300 or above.
8. **Graduation Form and Approval.** Fill out an "Application for Graduation" form ONE YEAR before your planned graduation date. We will grant you a bachelor's degree only if you complete the general degree requirements and at least one major (and one minor if applicable) that is approved for your degree area.

Be sure to check the current timetable for the most up-to-date list of general degree requirement offerings.

Associate Degree

Student Academic Advising Center
 Room 103, Student Services Center
 Phone: 715-346-3361
 E-mail: acadadv@uwsp.edu

Here are the general requirements for the associate degree. Be sure to tell your adviser while you are working toward your associate degree if you may eventually wish to go on for your bachelor's degree after completing your AD. Your adviser can help you select elective credits which are among the general degree requirements for the bachelor's degree. The following 60 credits are required:

1. **English**, 3-6 credits: English 101 and 102, or 150 through placement.
2. **Communication**, 2 credits: Communication 101 or equivalent.
3. **History, Humanities, Mathematics, Natural Science, and Social Science**: Earn a minimum of 40 credits from the following. Include at least one two-semester course sequence and one course taught from primary texts.
 - a. **Mathematics and Natural Science**: 12-16 credits.
 - 1) **Mathematics**: Minimum of 2 credits from the following courses: Mathematics 100, 109, 111, 118, 338, 355. (NOTE: Math 100 is a prerequisite to 109, 111, 118, 338 and 355 and will apply to all degrees.)
 - 2) **Natural Science**: Minimum of 8 credits, two disciplines and at least one laboratory course. Look in this catalog under the specific natural science department to determine what sequence of courses to take and what restrictions apply for taking more than one course in a discipline.

Astronomy 100 or 311 (no lab), 205, 206.
 Biology 100 or 101, 130, 160, 202 (no lab), 285.
 Chemistry 100 or 101, 105, 106, 114 and 115, 116.
 Geography 100EL, 101, 340 (no lab).
 Geology 100, 104.
 Physics 100 or 101, 115, 150, 203, 204, 250.
 - b. **History**, minimum of 3 credits from History 101NW, 102NW, 105, 106, 107, 108, 211, 212, 215NW, 216NW, 219NW, 220NW, 253NW, 254NW, 335, 337NW, 338NW, 345NW, 346NW, 366EL.
 - c. **Humanities**, 9-15 credits. Select courses from at least two of the following areas, but no more than 6 credits in the fine arts (art, communication, dance, theatre, and music in Area 1) or more than 3 credits of history from Area 4.
 - 1) **Humanities Area 1: History and appreciation of art, communication, dance, theatre, music**:
 Art 181NW, 282, 283, 346NW, 397.
 Communication 160, 171, 190, 250, 360, 361, 362.
 Dance 352.
 Interior Architecture 150NW, 160MNS, 309, 310NW.
 Music 100, 103, 105MNS, 220, 221, 300, 301, 307, 320, 323, 326, 329, 427.
 Technology and New Media Arts 300.
 Theatre 105, 329, 351, 352, 361, 362, 451, 452, 490.
- 2) **Humanities Area 2: Literature**:
 Comparative Literature 101, 102, 317.
 English 106, 108, 200, 211, 212, 213, 214, 280MNS, 281NW, 282MNS, 283, 285, 286, 288, 289, 308, 309, 310, 311, 312, 313a, 313b, 314, 319, 320, 329, 330, 333, 334, 336, 361, 362, 363, 364, 365, 366, 374NW, 378, 382MNS, 383, 385, 386.
 French 340.
 German 340.
 Russian 360NW, 370NW.
 Spanish 340.
- 3) **Humanities Area 3: Philosophy, political theory, and religious studies**:
 History 380.
 Philosophy 100, 101, 105NW, 121, 230NW, 302, 305, 306, 307, 315, 320, 325, 326, 327, 336, 380EL, 381NW/MNS.
 Political Science 391, 393, 394.
 Religious Studies 100NW, 101, 102MNS, 105NW, 301, 302, 303, 304, 311MNS, 316NW/MNS, 321, 330, 340, 341NW.
- 4) **Humanities Area 4: Civilization, area studies, and interdisciplinary courses**:
 Foreign Language 381.
 French 381.
 German 381.
 History 304, 305, 306, 339, 340NW, 341NW, 344NW, 347NW, 349NW, 351NW, 352NW.
 International Studies 381.
 Peace Studies 200.
 Russian 381NW.
 Spanish 381, 382MNS, 383NW.
 Women's Studies 300, 320MNS.
- d. **Social Science**, 9-15 credits. Select courses from two or more social science disciplines, with a minimum of 6 credits from courses in Category 1. You may not count both Human Development 261 and Psychology 260 toward the social science requirement.
 - 1) **Social Science Category 1**:
 Anthropology 101NW, 110NW, 125NW, 315NW, 320NW, 325, 338NW, 335NW, 339NW, 345NW, 380NW.
 Economics 210, 211.
 Geography 110NW, 113NW, 120NW, 211, 226, 300NW, 302NW, 328.
 Political Science 101, 160NW, 180, 201, 202MNS, 212, 242, 250, 315MNS, 341, 361, 362NW, 370NW, 371NW.
 Psychology 110, 240, 260, 320, 330.
 Sociology 101MNS, 102MNS, 224, 225, 230, 240, 270MNS, 300, 310, 327, 360EL.
 - 2) **Social Science Category 2**:
 Clinical Lab Science 105.
 Communication 240, 280.
 Geography 342.
 Human Development 166, 261, 265, 367.
 Natural Resources 150EL, 372.
 Political Science 306.
 Sociology 308, 355EL, 366, 368.
 Women's Studies 105MNS, 301.

4. **Wellness:** 2 credits.
- a. **Aerobics/Activity:**
Dance 103, 104, 105, 106, 112, 114, 115, 203, 204, 205, 206, 212, 214, 215, 303, 304, 305, 306, 314, 315.
Physical Education 231.
Wellness 100 to 299 (labeled AA in the timetable).
- b. **Health Enhancement:**
Food and Nutrition 151.
Health Education 140, 280.
Health Promotion/Wellness 102, 103, 106, 107, 110, 142, 143, 148, 149, 206, 207, 299.
Psychology 255, 290.
Wellness 100 to 299 (labeled HE in the timetable).
5. Additional approved courses to total 60 credits. Earn a minimum of 15 credits from UW-Stevens Point. Earn a 2.0 or better grade point average.
6. If, after you complete the associate degree, you wish to pursue a bachelor's degree here at UW-Stevens Point, you must choose among the bachelor's degrees offered here. Whichever you choose, you will need to complete additional university requirements in order to earn that degree.
- a. **For the bachelor of arts (BA) degree, you need:**
- 1) Foreign Language: 8 credits or test out.
 - 2) Natural Science: At least one lab course in each of two disciplines.
 - 3) History: 6 credits, from a two-semester sequence, as defined in the B.A. general degree requirements section of this catalog.
 - 4) Humanities: You need at least one course in each of humanities areas 1, 2, and 3, as defined in the BA general degree requirements section of this catalog.
 - 5) Minority Studies: One course.
 - 6) Environmental Literacy: 3 credits.
 - 7) Writing Emphasis: 6 credits.
 - 8) Non-Western Culture: One course.
 - 9) Earn at least 40 credits in courses numbered 300 and above.
 - 10) Wellness (physical education): Total of 3 credits (1 or 2 of aerobic activity and 1 or 2 of health enhancement).
 - 11) Earn a total of 120 credits. Some majors require more.
 - 12) An approved major.
- b. **For the bachelor of science (BS) degree, you need:**
- 1) Mathematics: 4 credits in addition to Mathematics 100. (NOTE: *Math 100* is a prerequisite to 109, 111, 118, 338, and 355 and will apply to all degrees.) See course list in the BS general degree requirements section of this catalog.
- 2) Natural Science: At least 12 credits with no more than one course numbered 100, and at least one laboratory course in each of two disciplines.
- 3) Minority Studies: One course.
- 4) Environmental Literacy: 3 credits.
- 5) Writing Emphasis: 6 credits.
- 6) Non-Western Culture: One course.
- 7) Earn at least 40 credits in courses numbered 300 and above.
- 8) Wellness (physical education): Total of 3 credits (1 or 2 of aerobic activity and 1 or 2 of health enhancement).
- 9) Earn a total of 120 credits. Some majors require more.
- 10) An approved major.
- c. **For the bachelor of music/bachelor of fine arts (BM/BFA) degree, you need:**
- 1) Mathematics OR Foreign Language: Choose one according to description in the BM/BFA general degree requirements section of this catalog. (NOTE: *Math 100* is a prerequisite to 109, 111, 118, 338, and 355 and will apply to all degrees.)
 - 2) Natural Science: At least one lab course in each of two disciplines.
 - 3) History: 6 credits total.
 - 4) Humanities: You need at least one course in each of humanities areas 1, 2, and 3, as defined in the BM/BFA general degree requirements section of this catalog.
 - 5) Minority Studies: One course.
 - 6) Environmental Literacy: 3 credits.
 - 7) Writing Emphasis: 6 credits.
 - 8) Non-Western Culture: One course.
 - 9) Earn at least 40 credits in courses numbered 300 and above.
 - 10) Wellness (physical education): Total of 3 credits (1 or 2 of aerobic activity and 1 or 2 of health enhancement).
 - 11) Earn a total of 120 credits. Some majors require more.
 - 12) An approved major.
7. If you wish to pursue a bachelor's degree at another UW System institution, you must complete the requirements of that particular institution. Your associate degree meets one part of the general degree requirements of any UW campus, but only one part. Individual campuses establish what are called competency requirements, usually in English, mathematics, and a foreign language. Your associate degree does NOT meet those competency requirements.

More Academic Information

Registration and Records Office
David J. Eckholm, Registrar
Larry J. Sipiorski, Associate Registrar
Room 101, Student Services Center
Phone: 715-346-4301
E-mail: Registration.Questions.Comments@uwsp.edu
Web: www.uwsp.edu/reg-rec

Academic Bankruptcy

If you have been suspended for academic reasons and have remained out of school for one or more semesters, you will have the option of electing academic bankruptcy upon readmission to the university. Academic bankruptcy is the opportunity to start over with a new cumulative grade point average.

If you apply for academic bankruptcy, we:

- Apply toward graduation those courses in which you earned a D or better.
- Apply toward your prerequisites and general degree requirements, but not necessarily toward your major or minor, those courses in which you earned a D or better.
- Determine your cumulative grade point average from the courses you take after being readmitted, except in determining graduation honors in which case you include all the grades you earned at UWSP and other institutions in calculating your cumulative grade point average.
- In order to graduate after electing academic bankruptcy, you must earn a minimum of 30 credits and an overall grade point average of 2.00 or better in such courses, OR earn an overall grade point average of 2.00 or better in all work completed at UWSP (including grades earned at UWSP before and after academic bankruptcy).

We do, however, keep on your official record all of the work you have done at UW-Stevens Point.

You may exercise this option only once in your academic career.

Also realize that if you select the academic bankruptcy option, but have not maintained satisfactory academic progress, you will not be eligible for financial aid. Academic bankruptcy does not adjust your academic progress standing. See the paragraph **Satisfactory Academic Progress** later in this section.

UWSP academic departments may disregard a declaration of academic bankruptcy in calculating your grade point average to determine your eligibility for admission to and/or graduation from their programs. Graduate programs and other universities may also disregard a declaration of academic bankruptcy in determining your eligibility for admission purposes.

If you are receiving GI Bill benefits, consult the campus Veterans Administration representative in the Registration and Records Office before electing this option. If you take it, you may have to repay the VA for past benefits you have received.

Academic Classification

See **Classification**.

Academic Progress

See **Satisfactory Academic Progress**.

Academic Standing

If your current cumulative and semester grade point average is 2.00 (a C average) or above, you are in good academic standing.

Adding a Course

See **Drop/Add/Withdrawal Procedures**.

Advisers

Each UWSP student has an academic adviser. Your adviser will inform you of academic requirements, policies, and procedures; assist you in identifying and pursuing your educational and career goals; review and monitor your progress toward those goals; and make appropriate referrals to campus programs and services.

Ultimately however, it is **your** responsibility to meet all university requirements, rules, and regulations.

You must meet with your adviser each semester to discuss your course of study. Your adviser must also approve and sign your "advising and registration form" each semester so that you can register for classes.

Student Academic Advising Center: If you have not yet declared a major, your adviser will be in the Student Academic Advising Center, Room 103, Student Services Center. Advisers will assist you in examining alternatives and establishing a plan so you can earn your degree:

1. If you are seeking admission to a major that has limits on the number of students enrolled;
2. If you do not meet the minimum standards for your chosen major;
3. If you elect to leave a major and need help in exploring your options.

Once you declare a major, the chair of your major department assigns you to an adviser. If you have more than one major you should have an adviser for each program. If you are a freshman or sophomore in the College of Natural Resources majoring in a subject other than paper science, the advising and recruitment coordinator is your adviser.

Assessment

As part of our continuing effort to improve curriculum and the delivery of instruction, UWSP assesses its graduating seniors both within their majors and in their general education. Students are expected to participate in this assessment process.

Athletics

Team athletics at UWSP are affiliated with the National Collegiate Athletic Association (NCAA) Division III. Men's sports include football, cross country, wrestling, ice hockey, basketball, swimming and diving, track and field, and baseball. Women's sports include soccer, cross country, ice hockey, volleyball, basketball, swimming and diving, tennis, track and field, softball, and golf. Men's and women's sports participate in the Wisconsin Intercollegiate Athletic Conference (WIAC) with hockey also participating in the Northern Collegiate Hockey Association (NCHA). For more information call 715-346-3888 or visit the Athletics Department Web site at www.uwsp.edu/athletics.

Attendance

Attend all your classes regularly. We do not have a system of permitted "cuts."

If you enroll in a course and cannot begin attending until after classes have already started, you must first get

permission from the department offering the course. Otherwise, you may be required to drop the course.

Your instructors will explain their specific attendance policies to you at the beginning of each course. Be sure to follow them. If you must be absent, tell your instructor why. If you can't reach your instructors in an emergency, visit the Student Academic Advising Center, Room 103, Student Services Center, or call them at 715-346-3361.

If you don't make satisfactory arrangements with your instructors regarding excessive absences, your dean may dismiss you. If you are dismissed from a course, you receive an F in that course. If you are dismissed from the university, you receive an F in all the courses you are taking.

If you take part in an off-campus trip by an authorized university group such as an athletic team, musical or dramatic organization, or a class, make appropriate arrangements in advance with the instructor of each class you will miss. The faculty or staff member in charge of your off-campus trip will leave with the Student Academic Advising Center a list of the names of all students taking the trip.

If you are absent from classes because of emergencies, off-campus trips, illness, or the like, your instructors will give you a reasonable amount of help in making up the work you have missed.

Auditing

"Auditing" means you attend class regularly without having to take exams, do laboratory work, participate in class discussions, or do any other classwork except listen. You may audit as many courses as you wish, up to five credits beyond the normal maximum study load. (See **Study Loads**.) You receive no academic credit for auditing a course, but you may take the course again for credit.

To audit a course:

1. Receive the instructor's permission, and be sure that there is enough space in the class.
2. Register for the course as you would for any other course.
3. Between the first and eighth day of class, fill out an audit form at the Registration Office and have it signed by both the instructor and the department chair.
4. Attend classes regularly, just as you would a credit course. (See **Attendance**.)
5. Follow all university regulations, just as you would if you were attending a course for credit.
6. If you meet these conditions, your student record will show "audit" for the course.

Note that you may neither change a course from "audit" to "credit" nor change it from "credit" to "audit" after the eighth day of classes. After auditing a course, you may seek credit by examination for some courses if you are enrolled at UW-Stevens Point at the time of the examination and pay the examination fee.

Fees for audited courses are as follows:

- If you are a Wisconsin resident enrolled only for audit, you will be assessed 30 percent of the normal academic fees for a resident.
- If you are a nonresident enrolled only for audit, you will be assessed 50 percent of the normal academic fees for a nonresident.
- If you are enrolled for credit and audit, you will be assessed 100 percent of the normal academic fees for your residency.

- You will not be assessed segregated fees if you are only enrolled for audit, but you may only have access to those university facilities normally available to the general public such as the library and student union.
- You will be assessed any special fees for course instruction, if there are any.
- The general policy on the refund of academic fees will apply.
- Audited courses do NOT count toward credit load for financial aid purposes.
- Wisconsin residents at least 60 years of age may audit classes free of charge provided there is space available in the class and the instructor approves. Those who qualify may register on or after the first day of the term. Proof of age and residence will be requested. Stop in the Registration and Records Office, 101 Student Services Center or call 715-346-3909 for information and/or registration materials.
- Disabled Wisconsin residents who present evidence of receiving federal old age survivors and disability insurance benefits (OASDI) under 42 USC 401-403 and who are enrolled exclusively for audit throughout the term are not assessed fees.

Career Services

If you would like to know the placement or employment rates of past graduates of any UW-Stevens Point program, write or visit the Career Services Office, Room 134, Main Building, or call them at 715-346-3226.

Classification/Year in School

You may determine your year in school by totaling the number of credits you have earned toward your degree. Include your credits-by-exam as well as any credits you transferred from other institutions. Do not count credit earned in courses numbered 001-099.

Credits	Year in School
0-14	First semester freshman
15-29	Second semester freshman
30-43	First semester sophomore
44-59	Second semester sophomore
60-73	First semester junior
74-89	Second semester junior
90-103	First semester senior
104 +	Second semester senior

In this catalog we use "upperclass students" to refer to those who have earned 60 credits or more (juniors and seniors).

Collaborative Degree Program

University of Wisconsin Colleges in Wausau, Marshfield, and Marinette and the Nicolet Technical College in Rhinelander have joined with UW-Stevens Point to offer a bachelor's degree with majors in general studies or business administration. Students can attend evening classes on any of the participating campuses. A combination of distance learning technologies and face-to-face instruction is used to offer upper level courses. Advisers are available on each campus. You must have accumulated 30 freshman and sophomore credits at an accredited college or university in order to enter the program. For information call 1-888-314-2327 or 715-346-3860.

Continuing Education

See **UWSP Extension** later in this section.

Correspondence Courses

UW-Stevens Point does not offer correspondence courses. But you may earn correspondence credit from other accredited universities and transfer the credit to apply toward your degree at UWSP. Check with your department chair before enrolling in a correspondence course to be sure the course will apply toward your major, or in the case of general degree requirements, the Registration and Records Office. If you are taking correspondence courses and UWSP courses at the same time, you may not exceed 18 total credits in any one semester. Make arrangements with your adviser or the head of the department of your major to proctor your exams for the correspondence course(s). See also the other sections of this catalog that deal with transferring credit.

If you receive verification from the Registration Office by the end of the third week of classes that you are enrolled full time at UWSP with 18 or less total credits including the correspondence course(s) and that your fees are paid in full, you may receive a waiver of UW Extension correspondence course fees. Fee waivers are not available for summer session courses. The fee waiver does not apply to service charges, textbooks, or course materials.

The Registration Office has UW Extension Independent Study Catalogs available, or you may receive information about the correspondence program by writing to UW Extension, Independent Study, 209 Extension Building, 432 North Lake St., Madison, WI 53706-1498, calling 608-263-2055, or viewing their Web site: www.uwex.edu/ilearn.

Credits/Semester Hours

We use the semester hour/credit to compute your study load. Each semester hour represents 50 minutes of class work, or its equivalent in other forms of instruction, per week for one semester. We consider two, or sometimes three, hours of laboratory work the equivalent of one hour of class work. If you complete one semester hour's work with a grade of D or better, you earn one credit.

Dean's List

See *Honors*, later in this section.

Drop/Add/Withdrawal Procedures

Dropping and adding courses

You are expected to complete the courses for which you register. If you decide you do not want to take a course, you **MUST** follow the procedures established by the Registration Office to **OFFICIALLY DROP** the course. If you never attend or stop attending a course and fail to officially drop, you will receive an F in the course at end of the semester.

Most departments do not want to hold seats for students who do not show up and may require that you officially drop a course if you do not attend the first one or two class meetings. If so, it will be **YOUR** responsibility to officially drop the course. See the current timetable for the policy of specific departments.

Adds/Drops DURING the first eight days of the semester

You are permitted unlimited adds and drops during the first eight (8) days of the semester with the approval of the department chair and/or instructor of the course. You are also encouraged to consult with your adviser. If you are on probation or have not met the standards of academic progress, you are **REQUIRED** to obtain the signature of your adviser. Courses dropped during the first eight days will not appear on your transcript.

Adds/Drops AFTER the eighth day of the semester

You may not **ADD** a class after the eighth day except for extenuating circumstances and only when approved by the department chair, instructor, and your adviser. You may **DROP** a course after the eighth day and through the tenth week of the semester, but you are encouraged to consult with the instructor and your adviser. You may not drop a course after the tenth week except for extenuating circumstances such as serious illness, personal duress, or factors beyond your control as determined by the Student Academic Advising Center.

You will receive a W on your transcript for all courses **OFFICIALLY** dropped after the eighth day of the semester. However, **after your first two semesters of enrollment at UWSP, you will be allowed a total of only four (4) W drops during the balance of your undergraduate career, including summer sessions.** After reaching the four drop limit, you will be permitted to drop a course only for extenuating circumstances. If you stop attending a course you are not permitted to drop, you will receive an F in the course.

Forms and instructions for drops/adds are available on the first day of classes in the Registration Office. Follow the procedures established and retain a copy of all of your drop/add transactions. See the timetable for prorated drop/add dates for courses that meet less than the full term.

Withdrawing from UW-Stevens Point

If you decide to leave the university, contact the Registration and Records Office, Room 101, Student Services Center to withdraw. You cannot officially withdraw from the university by simply leaving.

If you withdraw during the first eight days of the semester, only the date of withdrawal will appear on your transcript. After the eighth day and through the tenth week, you will receive a W for each course. After the tenth week you may not withdraw unless the reasons for withdrawal are serious illness, personal duress, or are clearly beyond your control. If you are permitted to withdraw after the tenth week, grades of W will be assigned to your courses. Courses that end prior to your withdrawal are an exception. You will receive grades for courses completed prior to your withdrawal.

Grades of W received due to withdrawal from school are **NOT** counted in the limit of four W drops addressed above under "Adds/Drops After the Eighth Day of the Semester." However, W grades from courses dropped **PRIOR** to your withdrawal from school **ARE** counted toward the four W drop limit.

Repeated occurrences of W may affect your ability to maintain standards of academic progress and may jeopardize your financial aid eligibility. See **Satisfactory Academic Progress** later in this section of the catalog to determine the effect of courses not successfully completed.

If you stop attending school and do not officially withdraw, you will receive an F for those courses in which you are still registered.

Withdrawal deadlines are prorated for courses that meet less than the full term.

Employment Statistics

If you would like to know the placement or employment rates of past graduates of any UW-Stevens Point program, write or visit the Career Services Office, Room 134, Main Building, or call them at 715-346-3226.

Finals

All instructors meet with their classes during the final examination period at the time and place scheduled. No final or last exam will be given during the final week of classes. An instructor may change the time or place of a final exam only with the approval of the appropriate dean.

If, due to illness or an emergency, an instructor is unable to give a scheduled examination, the instructor notifies the department chair and the dean and provides a make-up examination.

If you have three or more examinations on the same day, or if you have other problems with the examination schedule, your instructors may, at their discretion, change the schedule for you.

Grade Review

If an instructor does not give you, by the end of the second week of class, a written statement of how grades are determined, or if you feel that your instructor does not assign grades as described on that written statement, you may appeal the grade you receive in the course.

First talk with your instructor about your concerns. If, after doing so, you are not satisfied, write a statement of the problem and request that your grade be reviewed. Send this to the coordinator for grade review in the Student Academic Advising Center, Room 103, Student Services Center. You may submit this appeal up until the end of the fourth week of classes in the following semester.

After the coordinator receives your request, the following things take place:

1. You meet with the coordinator and discuss your grounds for appeal, the appeal process, and the options available to the Grade Review Subcommittee if the appeal is sustained.
2. The coordinator gives a copy of your appeal to your instructor and asks the instructor to respond to it in writing within 20 working days.
3. After 20 working days, the coordinator evaluates the allegations and determines if your appeal is valid.
4. Then, if the coordinator concludes that a grade change may be warranted, or if the instructor has failed to respond in writing, the coordinator gives the Grade Review Subcommittee of the Academic Affairs Committee all relevant information and directs the members of the committee to investigate your allegations and determine whether they are valid.

The subcommittee usually reaches a decision by the end of the semester in which you make the appeal. If, however, one of the parties is not on campus that semester, it may take longer.

If the subcommittee or the instructor determines that special academic expertise is needed, the subcommittee solicits an independent evaluation in writing from three impartial experts appointed by the chair of the instructor's department in consultation with the instructor and the subcommittee chair. The subcommittee accepts the evaluation and recommendations of the impartial experts on matters of academic content whenever it asks for them.

After investigating your grievance, the subcommittee will inform both you and your instructor of its decision in writing. If it finds that a change of grade is warranted, it will also recommend to your instructor the appropriate grade change. If your instructor refuses to make the recommended grade change within 10 school days after

being notified, the subcommittee will do one or more of the following to protect your interests:

1. Attach to your permanent record and transcript a statement of the recommended change of grade and the reasons your instructor did not change the grade.
2. Exempt the challenged grade from being included in your grade point average, unless you want the grade to be included.
3. Authorize your graduation minus the credit hours represented by the challenged grade, if that grade was F.

Grades

For every course you take, you receive a letter grade.

Grade	Points	Grade	Points
A	4.00	C	2.00
A-	3.67	C-	1.67
B+	3.33	D+	1.33
B	3.00	D	1.00
B-	2.67	F	0.00
C+	2.33		

To determine your **grade point average (GPA)**:

1. Multiply the number of semester hours for each course you have taken times the point value of the grade you have received in each course.
2. Add the products for all your courses.
3. Divide this sum by the number of semester hours you have taken excluding P and I grades.

We use your GPA to determine whether you are eligible for honors; for admission to certain majors, colleges, and curricula; and for determining your eligibility for membership in those campus organizations for which scholastic achievement is a criterion.

You may see and print your grades for each term by accessing the Web site: www.uwsp.edu/grades. Enter your username and password and then choose the term you wish to see. Besides the grades listed above, you may also receive the following designations on your grade reports, none of which carry a point value:

- AU Audit.
- CE Credit by exam.
- DR Dropped.
- EP Exchange program.
- EX Experiential learning.
- I Your work in a course is incomplete, and you have obtained your instructor's permission to complete the course. (See **Incompletes** later in this section.)
- GP Graduate progress.
- IP Course in progress.
- MC Credit-military experience.
- NC No credit.
- NR Grade not reported.
- P You passed a pass/fail course and received credit for it. If you fail such a course you receive an F and earn no credit. (See **Pass/Fail Grading** later in this section.)
- RC Retroactive credit.
- S You satisfactorily completed a noncredit course.
- TO Exemption/test out.
- TR Transfer credit.
- W You withdrew from a course after the end of the eighth day of classes. If you drop a course before then, the course does not appear on your record.

If you voluntarily stop attending a class at any time without completing the prescribed change of program procedure, you are considered as still registered, and you receive an F in the course at the end of the semester.

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Graduation

If you are an undergraduate, apply for graduation one year before you plan to complete your degree. Pick up an application form in the Registration and Records Office.

To be eligible for the bachelor's degree, you must:

- Complete all the general requirements for your degree.
- Earn a cumulative grade point average of 2.00 in all courses attempted at UW-Stevens Point.
- Earn a minimum 2.00 GPA in all courses required for a major, except in those programs requiring a higher GPA, and complete all the requirements for the major. In some programs, you must also complete an approved minor.

If you are a graduate student, follow the instructions listed in the **Graduate** section of this catalog.

Graduation, Four-Year Agreement

If your academic goal is to complete a baccalaureate degree with one major in four years, you may decide to participate in UWSP's Four-Year Graduation Agreement. Under this agreement, you will work closely with experienced academic advisers to select the appropriate course sequences which will ensure timely completion of your degree requirements. For the purpose of this agreement, the four year period begins with the start of the term or summer session in which you first enroll and ends 48 months later.

The four-year program has many advantages, including entering the work force or pursuing graduate education as quickly as possible, and avoiding unnecessary undergraduate expenses. However, the four-year program is not for everyone. It might preclude you from obtaining a high credit major which has strict course sequencing, changing majors, extensive extracurricular involvement, internships, or study abroad.

For more information, please check with your adviser as soon as you begin your coursework at UWSP.

Honors

Graduation Honors

You may receive undergraduate graduation honors on the basis of your grade point average for all the courses you have attempted, including college level work you attempted elsewhere. In the commencement ceremony you are recognized on the basis of the work which you complete before your final term. On your transcript, you are recognized on the basis of all the work you have done, including your final term.

Summa cum laude is awarded for a grade point average of 3.90 or above; *magna cum laude* is awarded for a grade point average of 3.75 to 3.89; and *cum laude* is awarded for a grade point average of 3.50 to 3.74.

If you have earned *summa cum laude* honors, you will have the distinction of having your name announced at the commencement ceremony. There are commencement ceremonies in May and December.

Semester Honors—Dean's List

UW-Stevens Point faculty have established semester honors as part of their program to recognize undergraduate students for outstanding academic achievement. To be eligible for semester honors, complete at least 12 semester hours of work with passing grades or, if you are student teaching only, complete at least 10 semester hours of work.

Semester highest honors are awarded for a grade point average of 3.90 or above; high honors are awarded for a grade point average of 3.75 to 3.89; and honors are awarded for a grade point average of 3.50 to 3.74. Semester honors are printed on your transcript.

You will receive an honors certificate and be placed on the dean's list in the Colleges of Fine Arts and Communication, Letters and Science, and Professional Studies when you earn a semester grade point average of above 3.75. The College of Natural Resources awards dean's list certificates to undergraduate students in their college who earn a grade point average of 3.5 or above.

In addition to these honors all undergraduate students who obtain a semester grade point average of 3.9 or above receive an honors certificate from the vice chancellor for academic affairs.

Department Honors Program

Some departments provide departmental honors programs which involve 9 credits of work or more. Contact individual departments for further information on their programs.

Incompletes

If you are unable to complete your work in a course due to extenuating circumstances or if you need to extend your research or performance beyond the normal limits of a term, you may ask the instructor for an "incomplete" in the course. An "incomplete" should be reserved for the completion of a definable amount of work (for example, one term paper or one exam) which occurs near the end of the semester. If approved, the instructor will inform you and the department chair of the work you need to complete and the due date.

You will have until the end of the next semester (excluding summer session) to complete the work unless your instructor gives you an earlier deadline and indicates that deadline on the grade list. Failure to complete the work prior to the appropriate deadline will result in a grade of F. If, for reasons beyond your control, you are unable to make up the "incomplete" by the deadline, you may ask the instructor and department chair to extend this time limit one time. However, any further extension of time will require the approval of the dean of the college.

DO NOT register for a course in which you received an "incomplete." If you do, the incomplete will be changed to an F. Instead, arrange with your instructor to complete the work remaining in the course. When you have completed the work satisfactorily, your instructor will report the removal of the "incomplete" to Registration and Records who will notify you that your record has been updated. If you do not receive notification after a reasonable waiting period, you should contact your instructor. Your final grade will not change any prior academic status.

Interim Sessions

The university offers a number of short sessions at various times during the year. There is a January "winterim" between the fall and spring semesters, a three-week interim session after the spring semester, and sessions of one to eight weeks in length during the summer. You may complete no more than one credit per week. For further information on interim sessions contact the Registration and Records Office at 715-346-4301 and the UWSP Extension Office at 715-346-3838 or 1-800-898-9472 for classes geared for the older student and for professional development.

International Programs

David Staszak, Director
 Mark Koepke, Associate Director
 Room 108, Collins Classroom Center
 Phone: 715-346-2717
 FAX: 715-346-3591
 E-mail: intlprog@uwsp.edu
 Web: www.uwsp.edu/studyabroad

International Programs can add a cross-cultural dimension to a liberal arts education and extend the scope of certain majors, language concentrations, or area studies. Foreign language skills are not a prerequisite for participation in many programs. We keep costs down to make international travel available to most students, and you may apply financial aid money.

During your study abroad you can earn 12-17 standard UW-Stevens Point credits. Each program includes an 11 to 15 week academic residency period and an extensive study/travel tour.

In Europe you may study in Britain, France, Germany, Hungary, Poland, or Spain. In the South Pacific you may study for a semester in Australia with a stop in Fiji or in New Zealand with a stop in Tahiti. Summer, Winter and spring break programs feature varying locations and themes such as tropical ecology in Costa Rica and Africa, business internships in China, theater in London, music in Austria and Germany, and architecture and design in such countries as Greece, Italy, and France.

We encourage you to plan ahead and apply early. Your academic adviser can help you set up a long term course schedule that will combine study abroad with efficient completion of degree requirements. Most student travelers consider their time spent abroad as the best experience of their college careers. If you'd like to know more, visit the International Programs Office, or write, e-mail, or check out our Web site.

Late Registration

You may register at UW-Stevens Point or add additional courses through the eighth day of classes in any semester.

Major or Minor Declaration

The academic departments decide whom they will accept as majors and minors. As soon as you decide on a major and/or minor, go to that department to declare your intent. The department will determine your "status" as a major or minor and enter it into your computer record. Do this for each major and minor you intend to study.

It is up to you to be sure that you complete all the requirements for your major and minor. Check regularly with an adviser in each department in which you are majoring and minoring to make sure you are meeting all of the requirements. You must have a cumulative grade point average of 2.00 in your major(s)/minor(s), including prescribed collateral courses, in order to be eligible for departmental approval to graduate with the major(s)/minor(s), unless the department requires a higher grade point average. To see the current requirements for each major and minor, check the requirements under **Courses of Instruction** later in this catalog.

If you are seeking teacher certification, you need to earn a 2.50 cumulative grade point average before you student teach. You also need a 2.75 grade point average in your major, minor, concentration, and education courses before you student teach. To be a student teaching intern, you

need a 3.00 grade point average in your major, minor, concentration, and education courses.

Your department may discontinue you as a major candidate before you complete two-thirds of the credits required for your major and before you begin your senior year. To do so, they notify you in writing. If you are in good standing as a major during your junior year but do not continue to meet your department's standards during your senior year, your department may discontinue you then as well.

Your department may also conditionally accept or retain you as a major candidate for your senior year. To do so, at the time they accept you, they notify you in writing of the specific conditions you must meet. If you fail to satisfy these written conditions during your senior year, they may notify you in writing to discontinue you as a candidate.

Minimum Acceptable Standards

You are in good academic standing if you have a semester and cumulative grade point average (GPA) of 2.00 (C) or above. With a GPA at or above 2.00 you meet the minimum acceptable standards of UW-Stevens Point, and are not placed on probation.

Nontraditional Students

If you have experienced a break in your education or if you are over 24 years of age and now wish to begin your college education, you are a nontraditional student. At the Nontraditional Student Office you can receive information on entrance requirements, financial aid, or any other problem that may keep you from attending UW-Stevens Point or benefitting fully from our programs. For further information, visit the Nontraditional Student Office in Room 101 University Center, call 715-346-2045, or e-mail nontrad@uwsp.edu.

Pass/Fail Grading

Through the pass/fail grading program, you gain the opportunity to secure a broader, more liberal academic experience than is usually possible under the traditional, many-stepped grading program. As a result, you may take courses which are personally or intellectually attractive to you, without the pressure to secure and maintain a high grade point average. You may take courses of value outside your major in which your knowledge is not great enough to sustain a high letter grade. You may, in other words, experience learning for its own sake.

Register for the pass/fail option on or before the eleventh day of classes. You may not change either to or from pass/fail after the eleventh day of classes except for extenuating circumstances and only when approved by the department chair, the instructor, and your adviser.

If you earn a P in your course, you have passed it and are granted credit for it. We do not include a grade of P in calculating your grade point average (except for certification of VA benefits). However, we do apply the credit you earn toward your degree.

If you earn an F in your course, you have failed it and do not receive credit for it. We do include a grade of F in calculating your grade point average.

Only undergraduate courses are included in the pass/fail program. You may select up to five pass/fail credits (other than required wellness) each semester. However, you may count no more than 20 credits from pass/fail courses (other than required wellness) toward your degree requirements.

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If you are on probation, you may take a course on a pass/fail basis only if it is in required wellness or if the course is offered on pass/fail alone.

Count pass/fail courses only as electives. You may count the "pass" credits you earn toward the total credits you need for a degree; **however, pass/fail courses DO NOT satisfy general degree requirements.** For example, a course which applies toward the humanities requirement might be available on a pass/fail option. If you take the course pass/fail and pass, you may **NOT** count it toward your humanities requirement. If you take it on an A-F basis and earn a D or better, you may count the course toward your humanities requirement. However, in both cases you may count the credits toward the total number of credits you need for your degree.

There are two exceptions to this rule:

1. You may satisfy your wellness/health enhancement requirements with pass/fail courses.
2. In certain departments you may be permitted to take up to two pass/fail courses in your major and one pass/fail course in your minor. Special registration is required at the Registration and Records Office.

To find out which courses and/or sections are available under the pass/fail option, and with what restrictions, check your timetable. Each department determines which courses to include in the program and under what conditions.

Departments provide the option of a standard grade in all courses offered under the pass/fail program except for those courses and sections that were approved to be offered as pass/fail only.

Placement (Employment) Statistics

If you would like to know the placement or employment rates of past graduates of any UW-Stevens Point program, write or visit the Career Services Office, Room 134, Main Building, or call them at 715-346-3226.

Prerequisites

If you register for any class when you do not have the required class standing and/or haven't met the stated prerequisites, the department offering the class may, at its discretion in the first eight days of the semester, require you to drop that class. However, if you are permitted to continue, you must realize that you accept full responsibility for the grade you earn in that class.

Probation/Suspension

If your current cumulative and semester grade point averages are 2.00 (C average) or above, you are in good academic standing.

You will be placed on **probation** if:

1. You earn a **semester** grade point average less than 2.00.
2. You earn a **cumulative** grade point average less than 2.00.
3. You are admitted on probation.
4. You are a transfer student who does not have a 2.00 cumulative grade point average from all previous institutions. **OR**
5. You are readmitted after being suspended for academic reasons.

Once placed on probation you must meet with your adviser by the end of the first week of classes of the next term you attend.

You will be **suspended** if:

1. You are on probation and your semester and cumulative grade point average fall below 2.00.
2. You are not in good academic standing at the end of a second consecutive semester on probation.
3. Your semester grade point average is less than 1.00 and your cumulative grade point average is less than 2.00.
4. After being readmitted on probation following academic suspension, you earn less than a 2.00 grade point average in your first semester of attendance.
5. You are admitted on probation as a transfer student, and you earn less than a 2.00 grade point average in your first semester.

You may attend a summer session after being suspended. After completing the summer session, you may ask us to review your academic status. Also see **Academic Bankruptcy** and **Readmission to UW-Stevens Point**.

Readmission to UW-Stevens Point

See **Admissions** earlier in this catalog.

Records (Privacy and Access)

The Family Education Rights and Privacy Act of 1974 as amended entitles you to review "official records, files, and data directly related" to you which the university maintains. You may also request a hearing regarding any alleged "inaccurate, misleading, or inappropriate" information. In most circumstances, the university will not release information from your records to third parties without your consent or notice to you. An interpretation of the law is printed below, and copies of it are available in the Registration and Records Office, Room 101, Student Services Center.

The Family Education Rights and Privacy Act of 1974, as amended, requires that you be advised of your rights concerning your education records and of certain categories of public information which the university has designated "directory information." This notice, in question and answer format, satisfies this requirement of the act.

As a student on the Stevens Point campus, what rights do I have regarding my university records?

You have the right to inspect and review all your records which meet the act's definition of "education records."

What is the definition of "education records?"

Education records are all the records maintained by the university about you. There are six exceptions:

- Personal notes of UW-Stevens Point staff and faculty.
- Employment records.
- Medical and counseling records used solely for treatment.
- Financial records of your parents.
- Confidential letters and statements or recommendations placed in your records prior to January 1, 1975.
- Confidential letters and statements or recommendations for admission, employment, or honorary recognition placed in your records after January 1, 1975, for which you have waived the right to inspect and review.

Is there any situation in which the university may insist that I waive my rights?

Under no condition may you be required to waive your rights under this act before receiving university service or benefits.

Where are my records kept?

Records are not maintained in a central location on the campus. Requests to review your records must be made separately to each office which maintains your records. Your request must be made in writing and presented to the appropriate office. That office will have up to 45 days to honor your request. For most students, these offices will include those of the registrar, your school or college dean, your major department, Protective Services, and any other campus office with which you have been in contact, such as Student Financial Aid or Residential Living.

What if I do not agree with what is in my records?

You may challenge any information contained in your "education records" which you believe to be inaccurate, misleading, or inappropriate. This right does not extend to reviewing grades unless the grade assigned by your professor was inaccurately recorded in your records. You may also insert a statement in your record to explain any such material from your point of view. If you wish to challenge information in your file, you must make a written request for a hearing to the dean or director of the appropriate office. In most cases, the decision of the dean or director will be final. However, you may elect to file an appeal in writing to the Assistant Chancellor for Student Affairs who will review the decision only if a significant question of policy or compliance with the law appears to be raised by the case.

May I determine which third parties can view my education records?

Under the act, your prior written consent must be obtained before information may be disclosed to third parties unless they are exempted from this provision. Exceptions include:

- Requests from the University of Wisconsin-Stevens Point faculty and staff with a legitimate educational "need to know."
- Requests in accordance with a lawful subpoena or court order.
- Requests from representatives of agencies or organizations from which you have received financial aid.
- Requests from officials of other educational institutions in which you intend to enroll.
- Requests from other persons specifically exempted from the prior consent requirement of the act (certain federal and state officials, organizations conducting studies on behalf of the university, accrediting organizations).
- Parents who claim students as dependents under the Internal Revenue code of 1954, Section 152, and who provide proof of such status.
- Requests for "directory information" (please refer to the next question for an explanation).

What is meant by the term "directory information?"

The university, in accordance with the act, has designated the following categories of information about you as public unless you choose to exercise your right to have any or all of this information withheld. This information will be routinely released to any inquirer unless you request that all or part of this be withheld.

These categories are:

- Name.
- Home address.
- Home telephone number.
- Local address. (Students should keep current address on file in the Registration Office.)
- Local telephone number.
- E-mail address.

- Place of birth.
- Major/minor field of study, and college.
- Participation in officially recognized university activities and sports.
- Weight and height of members of athletics teams.
- Dates of attendance (including initial registration, current classification and year, registration and withdrawal dates, graduation dates).
- Degrees and awards received (type of degree and date granted).
- The most recent previous educational agency or institution attended.
- Name of parents or guardian.
- High School from which you graduated.

What kinds of inquiries does the university receive for "directory information?"

The university receives many inquiries for "directory information" from a variety of sources including friends, parents, relatives, prospective employers, graduate schools, honor societies, licensing agencies, government agencies, and news media.

What if I don't want any "directory information" released?

Please consider very carefully the consequences of any decision by you to remove these items from the list of "directory information." Should you decide to inform the university not to release any or all of this "directory information," any future request for such information from nonuniversity persons or organizations will be refused. For example, the university could not release your telephone number and address to a family member wishing to notify you of a serious illness or crisis in the family. A prospective employer requesting confirmation of your major field of study or address would also be denied access to such items, should you withdraw them from the list of "directory information." The university will honor your request to withhold any of the items listed above but cannot assume responsibility to contact you for subsequent permission to release them. Regardless of the effect upon you, the university assumes no liability of honoring your instructions that such information be withheld.

If you wish to file a form withdrawing some or all of the information in the "directory" classification, you should report to the Registrar's Office, Room 101, Student Services Center, and complete the necessary form.

Where can I find out more information about the provisions of the act?

If you have any questions regarding the provisions of the act, you may contact either Student Rights and Responsibilities, Delzell Hall, 715-346-2611, or Registrar's Office, Room 101, Student Services Center, 715-346-4301.

Whom should I contact if I wish to make a complaint?

If you believe that the university is not complying with the act, please direct your comment to the Vice Chancellor for Student Affairs, 715-346-2481.

Accommodation of Religious Beliefs

It is the policy of the UW System that students' sincerely held religious beliefs shall be reasonably accommodated with respect to all examinations and other academic requirements.

1. You will be permitted to make up an examination or other academic requirement at another time or by an alternative method, without any prejudicial effect, where:

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- a. There is a scheduling conflict between your sincerely held religious beliefs and taking the exam or meeting the academic requirements; and
 - b. You have notified your instructor within the first three weeks of the beginning of classes (first week of summer or interim courses) of the specific days or dates that you will request relief from an examination or academic requirement.
2. Your instructor will accept the sincerity of your religious beliefs at face value and keep your request confidential.
 3. Your instructor will schedule a make-up exam or requirement before or after the regularly scheduled exam or requirement.
 4. You may file any complaints regarding compliance with this policy in the Equity and Affirmative Action Office.

Remedial Coursework

If you are placed into remedial coursework in mathematics, your academic adviser will encourage and help you to restrict your coursework to a level that will allow you to succeed.

You must receive written permission from your adviser to enroll in more than 16 credits during any semester in which you are taking remedial courses. If you want to take more than 18 credits during a semester that includes remedial courses, you must get written permission from the dean of your college. Decisions about the number of credits you can take in one semester while doing remedial coursework are based on such things as your ACT score, high school class rank, overall high school record, university grade point average, and demands on your time from coursework, extracurricular activities and employment.

If you enter UWSP and are placed into a remedial math course, you must complete it before you earn 30 credits toward graduation. If you fail to complete the remedial coursework before earning 30 credits, you will be restricted to a maximum of 12 credits a semester, including the remedial course, until the requirement is met.

Repeating Courses

A. Repeating a course at UWSP that was originally taken at UWSP.

You may repeat a course in which you received a D+, D, or F if you receive written authorization from your adviser and the chair of the department in which the course is offered BEFORE you register for the course. If you are a graduate student and need to repeat a graduate course, you must have the written authorization of the dean of the college offering the course.

A second repeat of a course in which you received a D+, D, or F requires written authorization from the dean of the college, in consultation with the department chair in which the course is offered, BEFORE you register for the course.

You may not repeat a course in which you received a grade of C- or better. Your dean, in consultation with the department chair, may grant an exception on appeal only for extenuating circumstances. You must obtain written authorization from your adviser, the chair of the department and the dean of the college in which the course is offered BEFORE you register for the course.

If you repeat a course which you had initially completed here, we figure only the credit and grade you earn in your last attempt in your cumulative grade point average. However, we do not expunge your original grade from your

student record. This applies only when the original attempt and the repeat are taken at UW-Stevens Point.

You can obtain a "Request to Repeat Course Form" from the Registration and Records Office. Be sure to have your request authorized BEFORE registering for the course. Any repeat not authorized before enrolling in the course will result in the repeat being expunged from your record.

B. Repeating a course at another institution that was originally taken at UWSP.

Courses in which you received grades of F at UWSP may be repeated at another institution. The repeat will not affect your UWSP transcript. Grades of D or better may NOT be repeated at another institution. Courses repeated at another institution will not replace a grade on your UWSP transcript or be used to recalculate the cumulative grade point average on your transcript.

C. Repeating a course at UWSP that was originally taken at another institution.

Grades earned at another institution may be repeated at UWSP provided you follow the same approval process as if the original grade was earned at UWSP. If approved, the previous attempt earned at another institution will be removed from your record.

Requirements

Your adviser and others at UW-Stevens Point are happy to help you plan your academic program. **However, you are responsible for following UW-Stevens Point's regulations and successfully completing all your academic requirements.**

In general, you are required to complete the academic requirements current at the time you first enroll. However, you may choose to complete a more recent set of general degree requirements by declaring your intent to the Registration and Records Office. You may also choose to complete a more recent set of requirements in one or more of your majors and minors with the approval of the chair of the department. If you choose to meet the more recent set of major/minor requirements, you do not have to choose the more recent set of general degree requirements.

Here are some special situations:

1. If an external agency changes the requirements, meet the new requirements. For example, if the Department of Public Instruction changes the requirements for teacher certification, fulfill the new requirements.
2. If you re-enter UW-Stevens Point after being gone for two or more semesters, meet the requirements current when you re-enter. Note that if you enroll and then withdraw within the first two weeks of the semester, you are considered as not enrolled for that semester.
 - a. If you have earned more than two-thirds of the credits toward your general degree requirements by the time you re-enter (not counting electives and courses toward your major/minor), you may ask to complete the degree requirements current when you first registered. Your dean approves such a request.
 - b. If you have completed more than half of the credits to fulfill your major/minor requirements by the time you re-enter, you may ask to complete the major/minor requirements current when you first registered. The chair of your department approves such a request.
3. If you transfer from another UW System institution, this policy applies in the same manner as if you had originally enrolled at UW-Stevens Point.

Residence Requirements

To be eligible for a bachelor's degree from UWSP, you must earn at least 30 of your total required credits in courses taken at UWSP. Credits earned through experience, advanced placement, or examination programs do not apply.

Residency (State of Wisconsin)

See *Finances* earlier in this catalog.

Safety and Health Policy

It is the policy of the University of Wisconsin System to provide and maintain adequate facilities for a safe and healthy learning environment. Faculty and staff will comply with state and federal safety laws and educate their students on practices and procedures that ensure safety for all members of the university.

Certain courses and research projects may require you to work with hazardous materials. Your instructor will inform and train you on procedures that will maintain your personal health and safety and provide you with information on the hazards of materials you may be using. Before using hazardous materials and equipment, you should review the procedures and information, and discuss any concerns with your instructor.

Satisfactory Academic Progress

You maintain satisfactory academic progress by earning credit (completing courses with a grade of A through D or P) in a certain percentage of the total semester hours for which you have been enrolled at UW-Stevens Point. On the following table you will find the percentage of total credits which you must earn at each level of total enrolled semester hours.

Total Enrolled Semester Hours	Percent of Total Semester Hours That Must Be Earned
18-30	50%
31-60	60%
61-90	65%
91-120	70%
121-150	75%
151-180	83%

We determine your academic progress in June. If you have not made satisfactory academic progress as defined by the table above, you are ineligible to receive financial aid until you earn enough credits to be making satisfactory academic progress.

You can determine your academic progress percentage from your last grade report, or you can ask for an evaluation by from the Registration and Records Office. Keep seven things in mind as you consider whether you are maintaining satisfactory academic progress:

1. The total semester hours for which you are enrolled are all the semester hours for which you earn a grade of A, B, C, D, F, P, I, W, WF, or one of these grades followed by a plus or minus.
2. Add your earned transfer credits to your UW-Stevens Point total semester hours to determine the percentage that is required. However, the percentage is applied only to UW-Stevens Point semester hours in determining academic progress.
3. When determining your academic progress, include in your totals any credits awarded by exam.
4. There are no exceptions to this policy for students who declare academic bankruptcy.
5. In order to qualify for financial aid, if you re-enter after being out of school for one or more semesters, you

must be making satisfactory academic progress at the time you re-enter.

6. You will no longer be making satisfactory academic progress and you will lose financial aid eligibility if you have been working toward your educational objective for more than 15 years and/or have enrolled in more than 180 undergraduate credits.
7. If you are found to be ineligible to receive financial aid due to unsatisfactory academic progress, you may appeal for special consideration if you feel there are extenuating circumstances. You will receive information about the appeal process when you get your notice of unsatisfactory progress. Your appeal must be submitted in writing with an explanation for the lack of progress and a plan for improved performance. If your appeal is successful, Registration and Records will be informed and your financial aid eligibility, with possible special conditions, will be restored.

Second Bachelor's Degree

You may want to return to school after graduating to complete additional majors or minors. You may do so without earning a second degree. However, if you have earned one bachelor's degree, you may subsequently earn a second by completing:

- 30 additional credits, and
- All requirements for the second degree.

You may use courses you completed for your first degree to satisfy requirements for your second degree. The major for your second degree must be an approved major for that degree.

Semester Hours/Credits

See *Credits/Semester Hours*.

Smoking

Beginning fall 2003, all buildings on the UW-Stevens Point campus are smoke free.

Student Rights and Responsibilities (student conduct)

The Office of Student Rights and Responsibilities protects your rights as a student. If you believe that your rights have been violated, or if you have questions concerning your rights, write or visit the office in Room 128 Delzell Hall, or call 715-346-2611.

You have the responsibility to act appropriately and responsibly. If your actions conflict with the welfare and integrity of UW-Stevens Point or disregard the rights of other members of the university community, including guests and visitors to the campus, you will face student conduct disciplinary proceedings.

You will find copies of the University of Wisconsin System disciplinary procedures and UWSP's institutional policies under these procedures (Chapter UWSP 17) on the Web at www.uwsp.edu/centers/rights and at each residence hall desk, the Reserve Desk of the Learning Resources Center, the Information Desk of the University Center, the offices of all academic deans, and the Office of Student Rights and Responsibilities. We urge you to read Chapter UWSP 17, which is part of our contract with you, since it describes what constitutes violations of appropriate conduct on campus and at university activities.

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Study Load

The typical study load is 14-16 credits per semester (including courses through correspondence, at other campuses, and distance education). You may take 17 credits with the permission of your adviser.

Study loads of 18, 19, or 20 credits must be approved BEFORE you register. Check the timetable for the appropriate authorizing official for your department/program.

The dean of your college must approve study loads of 21 credits or more. Requests are granted only for extraordinary reasons and only for students with outstanding academic records.

Note that you will be limited to 12 credits if you:

- Do not complete required remedial courses before you earn 30 credits.
- Do not complete freshman English, Math 100 or 105 before you earn 60 credits.

See the catalog section, **General Degree Requirements, "Verbal and Quantitative Skills"** for the complete policy. Check with Registration and Records Office if you wish to appeal this restriction.

In order to qualify for either Social Security benefits or full Veterans Benefits (Public Law 550), you must carry at least 12 credits (semester hours) of courses.

Summer Sessions

From mid-May to mid-August you may take part in undergraduate or graduate summer school courses lasting from one to eight weeks. Classes generally meet Monday through Thursday. You may also take part in any of several summer session camp programs. Ask your adviser if credits in one of these would apply toward your requirements. You can get a summer session schedule of classes from the Registration and Records Office or view it on the Web.

Suspension

See **Probation/Suspension**.

Transcripts

Your transcript is an official, certified copy of your academic record. It shows all the courses that you have attempted; all credits, grades, and degrees you have earned; and whether you have been placed on academic suspension.

You may order copies of your transcript by submitting a written request to the Registration and Records Office, Room 101, Student Services Center, or go to www.uwsp.edu/reg-rec. There is a charge of \$5.00 per transcript. In order to receive a transcript or diploma, you must have paid all your financial obligations to UWSP.

Transferred Credits

We use only the credits and grade points you earn at UW-Stevens Point in determining your cumulative grade point average. However, transfer credits and grades are included in the calculation of the grade point average in most majors and minors and in the determination of graduation honors.

You may use credits with grades of D or better that transferred from an accredited institution toward graduation. You may also use them to meet your requirements and prerequisites for specific courses, but not necessarily toward your major.

Because different institutions use different course numbering systems, we may not consider a course numbered 300 or above at another institution to be equivalent to a course

we number 300 or above here. Direct any questions about the transfer of your credits to the Admissions Office, Room 102, Student Services Center.

If you earn the last credits toward your degree at another college or university, have a transcript of these credits sent to our Registration and Records Office, Room 101, Student Services Center, within 30 days after the date of the UW-Stevens Point graduation. If you fail to meet this deadline, your degree will not be awarded until the next graduation.

Tutoring Services

With a staff of 200 peer tutors, the Tutoring-Learning Center (TLC) offers tutoring to students in many majors and from many backgrounds. Each academic year, TLC peer tutors work with more than 25 percent of the student body, from freshmen to graduate students.

TLC Tutorial Programs

- Reading and Writing.** Students work one-on-one with peer tutors on assignments for their university classes.
- Reading Adjunct Program (RAP).** Some university courses with especially challenging reading offer a one-credit "reading in the discipline" class in which peer tutors lead small study groups.
- Content-Area Tutoring.** Small groups of students meet with tutors for most general degree requirement (GDR) courses.
- '57 Series.** In this independent writing course (English 157-257-357), students explore various kinds of writing in one-on-one sessions with peer tutors.

The Tutoring-Learning Center, 346-3568, is located in the lower level of the Learning Resources Center (the library). We are open Monday - Thursday, 9 to 4, and Friday, 9-noon, except for finals' week.

UWSP Extension

Joan Sosalla, Executive Director of UWSP Extension
Room 032, Main Building
Phone: 715-346-3838 or 800-898-9472
E-mail: uwspext@uwsp.edu
Web: www.uwsp.edu/extension

UWSP Extension is the center of continuing education and lifelong learning at UW-Stevens Point offering programs and support services for individuals and organizations in education, government, business and industry, arts and leisure. UWSP Extension provides credit classes (including online and face-to-face courses), certificate programs, evening degree completion programs, noncredit workshops and seminars, and other programs for personal enrichment and professional development.

- The **Collaborative Degree Program (CDP)** helps individuals complete a bachelor's degree with a major in business administration or general studies through evening courses at various sites. (See more about CDP earlier in this section.)
- Credit Classes.** UWSP Extension provides graduate and undergraduate for-credit classes in a variety of formats and locations for adult learners.
- Professional Development Network (PDN)**
Room 330, College of Professional Studies Building
Phone: 715-346-3801
Web: www.uwsp.edu/cps/network
PDN serves professionals in school districts and organizations throughout Wisconsin with classes and programs that include first-year teacher induction courses; mentor-teacher classes; add-on certification programs; master's level courses; a certificate program

in safety and health protection; and a master's in nutritional science.

- The **Extended Master's Degree in Environmental Education** is available to continuing K-12 teachers and environmental professionals with more than one year experience. For more information see the **Graduate** section of this catalog.
- **TechLead** is a technology and leadership certificate program offering online, for-credit classes in global communication, digital media, Web design and computer skills.
- The **Wisconsin Learning Center (WLC)**, a partnership of UWSP, Mid-State Technical College, and Portage County Business Council, provides training and educational programs for individuals, groups and organizations.
- The **Small Business Development Center (SBDC)** provides planning tools; credit, noncredit, and CEU workshops and seminars; management and leadership certificate programs for business and industry;

customized training programs; GIS mapping services; and no-cost small business counseling services.

- The **Conservatory for Creative Expression (CCE)** features noncredit programs for children and adults in music, dance, drawing, creative writing, photography and the visual arts.
- **LIFE (Learning Is For Ever)** is a membership-based association for senior adult learners.
- The **PAPER Academy** offers technical training and certificate programs for employees in paper and allied industries.

Wisconsin Residency

See **Finances** earlier in this catalog.

Withdrawing from UW-Stevens Point

See **Drop/Add/Withdrawal Procedures**.

Year in School

See **Classification/Year in School**.

College of Fine Arts and Communication (COFAC)

Gerard McKenna, Dean
Room A202, Fine Arts Center
Phone: 715-346-4920
E-mail: cofac@uwsp.edu
Web: www.uwsp.edu/cofac

The College of Fine Arts and Communication is committed to a broad understanding of the arts, the humanities, and communication as a basis for reasoned, intelligent, and sensitive individuals interacting with society. The college is also committed to a broad understanding of the many aspects of the arts and communication as they relate to a changing world with its dynamic and diverse cultures. Most importantly, the college is committed to excellence in training communication, visual arts, and performing arts professionals. Through its faculty and programs both on and off campus, the College of Fine Arts and Communication represents "the best in performance, creativity, and expression."

Curriculum in Fine Arts and Communication

Educational experiences and courses for fine arts and communication majors, minors, and general student needs include:

- History, criticism, theory, and practice in fine arts and communication.
- Practical applications in the arts and communication through laboratory, studio, internship and other experiences.
- Production and performance experiences through art exhibitions, plays, musicals, dance productions, film, radio and television broadcasting, and various other forms of communication.

You may choose a professional program in a specific field or a more broadly based curriculum with a wide variety of choices. You may choose one of the majors listed below or a minor in the college with a major from another area.

There are four departments offering degree programs within the college: Art and Design, Music, Theatre and Dance, and the Division of Communication. The Departments of Art and Design, Music, and Theatre and Dance each enjoy full national accreditation by their respective associations. UW-Stevens Point is one of 14 such universities in the country to carry this designation.

Majors in Fine Arts and Communication

Degrees offered are:

1. Bachelor of Arts in art, music, arts management.
2. Bachelor of Arts or Bachelor of Science in communication, or theatre arts with options in dance or drama.
3. Bachelor of Fine Arts in art with graphic design, two-dimensional or three-dimensional emphases; theatre arts with options in musical theatre or drama.
4. Bachelor of Music with options in applied music, jazz, music education, and music literature.

Refer to the degree requirements listed in each department's section of this catalog.

To earn your degree, successfully complete the general degree requirements, requirements for your major, and approved electives totaling no less than 120 credits.

If you wish to meet teacher certification requirements in music, consult the **Education** section later in this catalog for additional courses required through the College of Professional Studies.

Minors in Fine Arts and Communication

Minors are available in art history, communication, dance, drama, music, and technology and new media arts.

College Honors

Undergraduate, full-time majors in the College of Fine Arts and Communication who have achieved a semester grade point average over 3.75 are awarded the Dean's Distinguished Achievement Award.

Nondegree Experiences in the Arts and Communication

Noncredit courses of study are offered through the Conservatory for Creative Expression, a community outreach program, and the American Suzuki Talent Education Center. The college also sponsors the annual Performing Arts Series with internationally acclaimed artists performing at the Sentry Theater.

Graduate Programs in Fine Arts and Communication

Graduate programs are available in music and communication. See the **Graduate** section of this catalog for further details.

College of Professional Studies (CPS)

Joan DeGuire North, Dean
 Room 112, College of Professional Studies Building
 Phone: 715-346-3169
 E-mail: cps@uwsp.edu
 Web: www.uwsp.edu/cps

The College of Professional Studies consists of the School of Communicative Disorders, the School of Education, the School of Health, Exercise Science and Athletics (HESA), the School of Health Promotion and Human Development (HPPH), and the Division of Interior Architecture.

The College of Professional Studies also administers programs in clinical laboratory science and military science (Army ROTC).

In the College of Professional Studies you:

- Prepare for your chosen profession by studying theory and then actively demonstrating your professional skills in a supervised classroom or clinic.
- Gain the knowledge and experience you need in order to meet the standards of your profession.
- Gain professional experience in internships and externships at hospitals, physician's offices, community clinics, schools, business and industrial sites.
- Associate with other students interested in providing a professional service to humankind.
- Acquire critical thinking skills so you may fully meet the needs of the people you will serve.
- Work on basic and applied research projects.
- Work with faculty who are attuned to the people, events, trends, and politics of the professional workplace.

Undergraduate Programs In Professional Studies

In the College of Professional Studies you may work toward bachelor's degrees from the:

- School of Communicative Disorders with a major in communicative disorders.
- School of Education with majors in elementary education; early childhood education; or exceptional education with certifications in learning disabilities, emotional disabilities, cognitive disabilities-borderline, and early childhood: special education; and certifications in secondary education.

- School of Health, Exercise Science and Athletics with majors in K-12 physical education or athletic training, and minors in coaching, adventure education, and health education; also an add-on certification in adapted physical education.
- School of Health Promotion and Human Development with majors in health promotion, family and consumer education, dietetics, and minors in nutrition, child and family studies, and safety and health protection.
- Division of Interior Architecture with a major in interior architecture.
- Department of Clinical Laboratory Science with a major in clinical lab science (formerly medical technology).

College Honors

The College of Professional Studies Dean's List consists of undergraduate students who achieve a grade point average of above 3.75 the previous semester.

Graduate Programs In Professional Studies

In the College of Professional Studies you may work toward a master's degree in:

- Communicative disorders with an emphasis in either speech and language pathology or audiology (master of science).
- Elementary education (master of science in education).
- Elementary education with emphasis in reading or in special education (master of science in education).
- General education (master of science in education).
- Human and community resources (master of science).
- Nutritional sciences (master of science).
- Educational administration through cooperative arrangements with UW-Madison and UW-Superior.
- Guidance counseling (master of science in education) through cooperative arrangements with UW-Oshkosh.

For further information on these master's programs, see the **Graduate** section of this catalog.

Professional Development Network (PDN)

Room 330, College of Professional Studies Building
 Phone: 715-346-3801
 Web: www.uwsp.edu/cps/network

The CPS Professional Development Network (PDN) works to connect the College of Professional Studies with educators, school districts, organizations and professionals throughout Central Wisconsin. PDN offerings include a certificate in safety and health protection; first-year teacher induction courses; mentor teacher courses; add-on certifications in early childhood education, adapted physical education, and health education; two nine-credit master's level strands for teachers; and support for the master's degree in nutritional sciences.

College of Letters and Science (L&S)

Justus F. Paul, Dean
Diane Gillo, Associate Dean
Jin Wang, Associate Dean
Room 130, Collins Classroom Center
Phone: 715-346-4224
E-mail: cols@uwsp.edu
Web: www.uwsp.edu/cls/index.htm

Through courses we offer in this college we help you to:

- Understand, effectively use, and appreciate the process of learning.
- Recognize the complexity of problems and improve your ability to develop creative solutions.
- Increase the breadth and depth of your understanding of the humanities, sciences, and social sciences.
- Succeed in your studies and in preparing for a career.
- Join a community of teachers, scholars, and students who strive for high standards of academic achievement.

Curriculum in Letters and Science

For information on the courses to take in order to earn either a bachelor of arts or bachelor of science degree, refer to the section of this catalog entitled **General Degree Requirements**. For information on requirements for a master's degree, see the **Graduate** section of this catalog.

Majors in Letters and Science

In the College of Letters and Science, you may select from the following majors: biology, business administration, chemistry, computer information systems, economics, English, French, general studies, geography, German, history, international studies, managerial accounting, mathematics, natural science, philosophy, physics, political science, psychology, public administration and policy analysis, social science, sociology, Spanish, and web and digital media development.

Before declaring a major, read the sections of this catalog under **Courses of Instruction** that deal with departments of greatest interest to you. Also see the student handbooks of these departments to see descriptions of their majors, minors and courses of study.

Declare your major by the time you have earned 56 academic credits (excluding required wellness). Please go to the departmental office of the major of your choice and the staff in that office will help you complete this process. Ordinarily, a department will accept you for major study. However, they may refuse to accept or have you continue in the major if your academic record does not satisfy their regulations. (See the section of this catalog entitled **Major or Minor Declaration** under **More Academic Information**.)

Minors in Letters and Science

In the College of Letters and Science you may select from the following minors: accounting, anthropology, applied mathematics, biology, business administration, chemistry, comparative literature, computer science, earth science, economics, English, teaching English as a second language, environmental studies, French, geographic information systems and spatial analysis, geography, geology, German, gerontology, history, international studies, learning technologies, mathematics, museum techniques,

Native American and rural social work, Native American studies, natural science, peace studies, philosophy, physics, political science, psychology, public administration and policy analysis, religious studies, scientific and technical writing, small city analysis, social science, social science in health, sociology, Spanish, web and digital media development, women's studies, and writing.

If you declare a major, it may be within or outside the College of Letters and Science. The only department in Letters and Science that requires you to declare a minor is business administration. The staff in the departmental office of the minor of your choice will help you complete this process. Ordinarily, a department will accept you for minor study. However, they may refuse to accept or have you continue in the minor if your academic record does not satisfy their regulations.

College Honors

Dean's Distinguished Achievement Award certificates for semester honors are given to all majors in the College of Letters and Science who complete at least 12 credits in any semester with a grade point average of 3.76 or above.

Preprofessional Study

Before entering many professional schools, you must complete part of your college work. If you wish to enter one of these schools, you may register in the College of Letters and Science and then begin working with an adviser familiar with the requirements of the profession you plan to enter. Your adviser can help you plan your studies within either the bachelor of arts or bachelor of science program.

In the following paragraphs, you will find information on how to prepare for some professions. If you would like more specific information or suggestions, we would be happy to send them to you.

Different schools training people for the same profession sometimes have different entrance requirements. Generally, entrance requirements have grade point restrictions on your cumulative GPA. However, this may vary from institution to institution. At UWSP you may repeat a course for which you earned a D+ or less. You may not repeat a course in which you earned a grade above D+.

Make sure you know the requirements of the school you plan to enter, and frequently review your progress with your adviser. Your adviser, department chair, and the staff in the office of the Dean of the College of Letters and Science will be happy to help you. But remember that it is up to you to meet all college and university requirements, rules, and regulations.

Dentistry: UW-Stevens Point has an excellent pre dental program, with a diversity of courses and options, which will permit you to meet or surpass the admittance requirements for most of the dental schools in the United States. Most dental schools require a minimum of three years (90 semester credits) of pre dental education. The pre dentistry course requirements may be integrated into the requirements for almost any major offered at UW-Stevens Point. Many students accepted into dental school have a major in biology, chemistry, or both. All dental schools require candidates to take the Dental Admission Testing Program exam given in October and April. Consult regularly with the dentistry adviser on campus as you plan your undergraduate curriculum, so that you stay informed of changes in requirements and recommended courses at specific dental schools.

Education: If you have not yet determined the subjects you would like to teach, talk with your adviser or the advising office in the School of Education. If you seek a certificate to teach at the secondary school level, with a major offered in the College of Letters and Science, you may either complete your general requirements for your B.A. or B.S. degree in the College of Professional Studies or the College of Letters and Science. See the **Education** section later in this catalog for complete information on your education requirements.

Engineering: Requirements for the UW-Stevens Point pre-engineering program vary from one specialization to another. However, if you plan to pursue a career in engineering, you will need to concentrate on mathematics and the sciences. Most likely you may complete two years of preparation at UW-Stevens Point. See the Department of Chemistry for details about the prechemical engineering program. For all other pre-engineering programs, see the Department of Physics and Astronomy.

Law: Normally, you must complete a bachelor of arts or bachelor of science degree before applying to a law school. Since you will face stiff competition for admission to law school, work to maintain a high grade point average. All law schools require candidates to take the Law School Admission Test (LSAT). High scores on this test are necessary for admission to the better law schools. Most law schools also require that candidates submit letters of reference from individuals familiar with their qualifications and aptitude. You should speak to your adviser about developing a list of references. Law schools do not require that you take a particular undergraduate major. However, most prelaw students earn degrees in a social science or in business.

UW-Stevens Point prelaw advisers in the Department of Political Science stress a broad undergraduate program. In such a program you learn philosophical and social science approaches to problem solving. We at UW-Stevens Point take pride in our excellent record for placing superior students in outstanding law schools.

Medicine: If you are preparing for a career in medicine, register as a candidate for either the bachelor of science or bachelor of arts degree. You may integrate your premedical course requirements with those for a degree in almost any other major field. However, most students accepted into medical schools have a major in biology, chemistry, or both. All medical schools recommend, but do not require, that

you take calculus, humanities, and psychology. You will face stiff competition for admission to a medical school.

Medical schools will decide whether to admit you based on whether you have:

1. B+ average.
2. Above average scores on the New Medical College Admissions Test (New MCAT), 9-10 average score out of 15.
3. Relevant work experience.
4. Strong recommendations.
5. A successful interview.

Pick up a registration form for the New MCAT from the premedical adviser. Since the New MCAT assumes you have taken college level chemistry, physics, biology, and mathematics, take this exam in April of your junior year. If you are not successful, you may take it a second time in September of your senior year. UW-Stevens Point graduates have an excellent record of acceptance by medical schools.

Mortuary Science (Funeral Service): At UW-Stevens Point you may receive the two years of preprofessional study you need to enter a mortuary school.

Pharmacy: Take the following courses during your freshman and sophomore years: Chemistry 114, 115, 116 (or 105 and 106), 325, 326, and 328; Mathematics 120; Physics 203 and 204. For additional requirements and suggested electives, see a prepharmacy adviser.

Other Fields: If you want to prepare for a professional field not listed here, the College of Letters and Science will assist you in finding an adviser to help you plan your program. Make sure you thoroughly understand all requirements of the school you plan to enter, and meet often with your adviser.

Affiliated Centers

Faculty and staff from the College of Letters and Science are involved in a variety of other programs which benefit the students of the university as well as the surrounding Central Wisconsin community. These programs include:

Center for the Small City
 Center for Economic Education (CEE)
 Central Wisconsin Economic Research Bureau (CWERB)
 Blocher Planetarium
 POLYED National Information Center for Polymer Education
 Museum of Natural History
 Regional Archaeology Center Four

College of Natural Resources (CNR)

Victor D. Phillips, Dean
Christine L. Thomas, Associate Dean for Academic Affairs
Randy Champeau, Associate Dean for Outreach/Extension
Room 100, College of Natural Resources Building
Phone: 715-346-4617
E-mail: cnr@uwsp.edu
Web: www.uwsp.edu/cnr

Student Success Center, 180 CNR, 715-346-4081
Susan M. Kissinger, Advising/Recruitment Coordinator

Curriculum in Natural Resources

Please refer to the section of this catalog entitled **General Degree Requirements** for information on the courses to take in order to earn a bachelor of science degree. In the **Graduate** section of this catalog you will find information which will be valuable to you if you wish to pursue a master of science degree in the College of Natural Resources.

Majors in Natural Resources

In the College of Natural Resources, you may work toward a bachelor of science degree in any of six disciplines:

Forestry: In the forestry program you integrate the study of forestry with the study of other resource disciplines, so that you have a solid background for forest ecosystem management. Through your forestry degree you prepare for management positions with public agencies or private industry. Select one of these five options: forest management, forest administration and utilization, urban forestry, forest ecosystem restoration and management, or forest recreation. The Society of American Foresters accredits this program.

Paper Science: In the paper science program you become well versed in the physical and engineering sciences and learn the relationships among these disciplines. You also prepare yourself to apply what you have learned as an industrial scientist or engineer and ultimately as a manager in the paper industry or an allied industry.

Resource Management: Within resource management you may choose from environmental education/interpretation, land use planning, youth programming and camp management, or general resource management options. Should you choose general resource management, please also complete an appropriate minor to enhance your employability.

Soil and Waste Resources: Three options are available in this major. The soil science and soil and land management options blend coursework in soils with courses in the basic sciences and other natural resources disciplines. The waste management option blends coursework in waste management, the basic sciences, and natural resources. When you complete these options you can meet requirements for a soil scientist as defined by the United States Department of Agriculture and for a soil or waste resource manager for private or public sector employment.

Water Resources: In water resources you select an option in limnology and fisheries, watershed hydrology and management, or watershed administration. Within these options, you prepare for a career with a government agency or a private firm.

Wildlife: In this curriculum you integrate the study of wildlife ecology and management with other resource disciplines as you prepare yourself for graduate school or a management position, or you may complete the option in wildlife education (not for teacher certification) if your primary interest is to be a wildlife educator/interpreter. When you graduate, you have met the curricular requirements for a certified wildlife biologist as established by The Wildlife Society.

Official Acceptance as a Major: You must be accepted as a major before you enroll in summer camp, internships, or the European environmental studies seminar. To be accepted, you must have completed 45 university credits and have a 2.00 grade point average in courses required for your major.

Minors in Natural Resources

In the College of Natural Resources you may minor in conservation biology, environmental communication, environmental education/interpretation, environmental education for elementary/middle school teachers, environmental law/enforcement, forest recreation, forestry, international resource management, land use planning, resource management, soil science, water resources, wildlife, captive wildlife, or youth programming and camp management.

Graduate Programs in CNR

If you qualify, you may work toward a master of science degree in natural resources with an emphasis in any of these areas: environmental education/interpretation, fisheries, soil and waste resources, water resources, wildlife management, forest ecology and management, urban forestry, forest business, international resource management, environmental resources extension programming, land use planning, or youth programming. For details, see the CNR graduate coordinator.

Summer Camp

Most CNR majors require participation in a six week summer camp or the eight week European environmental seminar after you complete your sophomore year. Through the field experience you gain at summer camp in forestry, soils, water, and wildlife, you prepare yourself for the intensive studies of your junior and senior years.

If you wish to be exempted from summer camp either because of appropriate transfer courses or experience, follow these steps:

1. Send an appeal for a summer camp alternative to the CNR associate dean for academic affairs by March 1 of your sophomore year if possible.
2. Transfer students or others with extenuating circumstances should appeal no later than March 1 of their junior year.
3. If you postpone an appeal until your senior year, you may have to delay graduation in order to complete the summer camp requirement.
4. The appeal package should include:
 - a. The appeal letter with reasons and suggested alternative activities.
 - b. A copy of your degree progress report.
 - c. A letter of support from your adviser. If you do not have an adviser, the CNR Peer Advising Center can put you in touch with an appropriate person, or you can contact a faculty member directly and request assistance.

International Experiences

The College of Natural Resources offers a variety of opportunities to study abroad. Our European environmental studies seminar takes student to Germany, Poland and several other European countries to provide an opportunity to study resource management issues. The experience in conjunction with a semester-long seminar and a two-week field course at our Central Wisconsin Environmental Station can substitute for the summer camp requirement in the college. In addition, CNR students can take advantage of opportunities to study in Costa Rica, Mexico, Belize, Guatemala, Africa, Australia, New Zealand. These experiences have a specific environmental studies focus and are in addition to the many international programs offered on a universitywide basis.

Teaching in Natural Resources Fields

If you seek a certificate to teach at the secondary school level with a major offered in the College of Natural Resources, you may either:

1. Complete the general degree requirements for your BS degree in the College of Professional Studies, or
2. Complete the general degree requirements for your BS degree in the College of Natural Resources.

See the **Education** section later in this catalog for complete information on your education requirements.

College Honors

College of Natural Resources majors who attain a semester grade point average of 3.5 or above are placed on the Dean's List and recognized for their accomplishment.

Graduation Requirements

To graduate from the College of Natural Resources, you must achieve the minimum grade point required for your major (varies by discipline) in the courses required for your major, including collateral courses and summer camp.

Field Stations

Central Wisconsin Environmental Station

At the Environmental Station on Sunset Lake you can gain valuable practical experience in natural resources and environmental education while you earn college credit.

Located 17 miles east of the UW-Stevens Point campus, the Environmental Station is sponsored by the UWSP Foundation and the College of Natural Resources. The station covers over 300 acres of diverse landscape, including such ecological communities as coniferous and deciduous forests, ponds, and kettle lakes. It also has classrooms, dining facilities, dormitory and log cabin housing for youth and adult groups, nature trails, a challenge course, amphitheatre, and a complete waterfront. For more information, call 715-824-2428, write the Central Wisconsin Environmental Station, 10186 County Road MM, Amherst Junction, WI 54407, or e-mail: cwes@uwsp.edu.

Schmeeckle Reserve

The Schmeeckle Reserve is a 275-acre natural area on campus where you can hike, jog, ski, or just enjoy nature on the miles of woodchipped trails and boardwalks. Many university classes are taught here. At the public visitor center you can gain experience to apply toward a major in parks and recreation, environmental education/interpretation, or other natural resource fields, or get involved in any number of artistic or outdoor projects. This building houses the Wisconsin Conservation Hall of Fame that includes exhibits on distinctive natural features of the Schmeeckle Reserve. For more information call 715-346-4992, write Schmeeckle Reserve, College of Natural Resources, or e-mail schmeeckle@uwsp.edu.

Treehaven Field Station

Treehaven is a natural resource center which meets the needs of the CNR summer camp. Here, 80 miles north of Stevens Point, near Tomahawk, you live and study in a modern facility, yet have access to over 1,200 acres of diverse habitat for natural resource education and management demonstrations. Treehaven's classroom center, dining lodge, and living centers are fully winterized and host many conferences, courses, and workshops. As an undergraduate or graduate student, you may take courses on such subjects as winter ecology and wild edibles. Treehaven is sponsored by the UWSP Foundation and the College of Natural Resources. For more information, call 715-453-4106, write the Director of Treehaven, W2540 Pickerel Creek Avenue, Tomahawk, WI 54487, or e-mail treehaven@uwsp.edu.

Courses of Instruction

Undergraduate Course Numbers

- 000-099 **Precollegiate.** These courses do not carry college level credit.
- 100-199 **Freshman level.** These courses are open to all students without restriction, if no other prerequisite is listed.
- 200-299 **Sophomore level.** The basic prerequisite for these courses is "sophomore standing" which means that you must have already earned 29 college credits. If some other prerequisite is listed for the course, you must meet it in addition to having sophomore standing.
- 300-399 **Junior level.** The basic prerequisite for these courses is "junior standing" which means you must have already earned 59 college credits. Also meet any other prerequisites that are listed.
- 400-499 **Senior level.** The basic prerequisite for these courses is "senior standing" which means you must have already earned 89 college credits. Also meet any other prerequisites that are listed.

Prerequisites

If you register for any class when you do not have the required class standing and/or haven't met the stated prerequisites, the department may, at its discretion in the first eight days of the semester, require you to drop that class. However, if you are permitted to continue, you must realize that you accept full responsibility for the grade you earn in that class.

Forty Credit Rule

To receive a bachelor's degree, you must earn at least 40 credits in courses numbered 300-499.

Graduate Courses

Courses numbered 300/500-399/599 and 400/600-499/699 are offered at two levels. You may take them at the 300- or 400-level for undergraduate credit or at the 500- or 600-level for graduate credit. Realize that only graduate students may enroll for graduate credit. Courses numbered 700-799 are offered only at the graduate level.

Pass/Fail Courses

You can register for some undergraduate courses, or certain sections of undergraduate courses on a "Pass/Fail" basis. These courses and/or sections are marked with a "#" in your timetable. See the section in this catalog called **More Academic Information** for all the regulations pertaining to pass/fail grading.

Abbreviations

The following abbreviations appear in the course descriptions.

so st	sophomore standing
jr st	junior standing
sr st	senior standing
addl	additional
admis	admission
approp	appropriate
CIS	Computer Information Systems
con reg	concurrent registration
cons chair	consent of department chair
cons instr	consent of instructor
cr	credit
disc	discussion
equiv	equivalent
hr(s)	hour(s)
lab	laboratory
lec	lecture
prereq	prerequisite
wk(s)	week(s)
(I)	Course is offered first semester
(II)	Course is offered second semester
(SS)	Course is offered in summer session
(A)	Course is offered in alternate years

Individual departments may have additional abbreviations.

GDR Abbreviations

These abbreviations appear at the end of course descriptions for courses that meet one or more of the general degree requirements.

GDR	General Degree Requirements
COMM	Communication 101
EL	Environmental Literacy
ENGL	Freshman English
FL	Foreign Language
HI	History
HU1	Humanities Area 1
HU2	Humanities Area 2
HU3	Humanities Area 3
HU4	Humanities Area 4
MATH	Mathematics
MNS	Minority Studies
NS	Natural Science
NW	Non-Western Culture
SS1	Social Science Category 1
SS2	Social Science Category 2
WE	Writing Emphasis
WL/AA	Wellness/Aerobic Activity
WL/HE	Wellness/Health Enhancement

ACCOUNTING

See *Business and Economics*.

ADAPTED PHYSICAL EDUCATION

See *Health, Exercise Science, and Athletics*.

ADULT LIFE AND AGING

See *Sociology*.

ADVENTURE EDUCATION

See *Health, Exercise Science, and Athletics*.

Anthropology

(College of Letters and Science)

Donald E. Fadner, Chair of Philosophy Department

Room 489, Collins Classroom Center

Phone: 715-346-3340

E-mail: philosophy@uwsp.edu

Web: www.uwsp.edu/philosophy/

Faculty: B Butler, TH Johnson, R Riggs; W Gartner (adjunct).

Courses in *anthropology* are administered by the Philosophy Department.

Definition: Anthropology studies the evolution of the human species, the history and evolution of past human cultures, and present day cultures and languages.

Anthropology Minor

Consists of a minimum of 18 credits including:

1. Anthropology 101 or 110 and either 315 or 325.
2. Six additional credits in anthropology.
3. The remaining 6 credits may be completed with electives selected from appropriate courses in one or two of the following areas: anthropology, art and design, business and economics, communication, education, English, foreign languages, geography and geology, history, interior architecture, music, natural resources, philosophy, political science, religious studies, sociology, or theatre. Collateral courses must be approved by a member of the anthropology faculty.

Anthropology Minor for Teacher Certification

Consists of 22 credits.

1. Anthropology 101 or 110, 315 and 325 are required.
2. Select one course from 335, 339, or 371.
3. Complete minor with electives from anthropology. Nine credits must be in courses numbered 300 or above.

Academic Standards

1. To ensure that your program is as well planned as possible, you must have an anthropology adviser.
2. You must have your adviser's approval for all courses you select to apply to the minor.
3. To be accepted and retained as a minor and approved for graduation, you must have a minimum grade point average of 2.50 (2.75 to student teach) in courses counted toward the minor, including transfer courses and regardless of any declaration of academic bankruptcy. Courses taken pass/ fail or with a grade lower than C- may not be counted toward the minor. The chair of the department may allow exceptions. You may repeat a course in the minor only if you follow the policy on repeating courses found in the *More Academic Information* section of this catalog.
4. Courses in anthropology are open to all students who meet the prerequisites.

Courses in Anthropology

ANTH 101(NW). Human Diversity. 3 cr. Introduction to anthropology that includes human evolution and biological diversity, human cultural and linguistic diversity, and archaeology. GDR:SS1

ANTH 110(NW). Contemporary Cultural Diversity. 3 cr. Introduces the field of cultural anthropology, and with examples, explores the contemporary challenges faced by diverse peoples around the world. GDR:SS1

ANTH 125. Wisconsin Indian Cultures. 3 cr. Introduction to prehistoric, historic and contemporary American Indian cultures of Wisconsin.

ANTH 315(NW). Principles of Archaeology (formerly 250). 3 cr. Theory and methods of archeology. Examine world archeology, especially North America. GDR:SS1

ANTH 320(NW). Anthropology of Religion. 3 cr. Explore diversity of religious practice worldwide with in-depth exploration of selected traditions. GDR:SS1

ANTH 325. Culture and Language. 3 cr. Survey anthropological linguistics. Topics include evolution of language, basic language structure, how language structures and reflects cultural and social differences, and the preservation of language diversity. GDR:SS1

ANTH 335(NW). Peoples of South America. 3 cr. Survey cultures of native South Americans with predominantly non-European ancestry. In-depth exploration of selected peoples of indigenous and African ancestry. ANTH 101 or 110 recommended. GDR:SS1

ANTH 338(NW). Peoples of the Pacific. 2-3 cr. Ethnological survey; cultural organization of Pacific societies and significance of social change. GDR:SS1

ANTH 339(NW). Native Cultures of North America. 3 cr. Selective survey of the evolving cultural heritage of native North Americans. GDR:SS1.

ANTH 340. Field and Laboratory Techniques in Archaeology. 3 cr. Techniques, methods and procedures of field and laboratory archaeology discussed and practiced in actual working conditions on an archaeological excavation. Summer only. May repeat for 6 cr max.

ANTH 345(NW). Native Peoples and Cultures of MesoAmerica. 3 cr. Explore societies and cultures of the indigenous peoples of Mexico and Central America from prehistory to the present. ANTH 101 or 110 recommended. GDR:SS1

ANTH 371(MNS). Contemporary Native North American Cultures. 3 cr. Cultural adaptations of contemporary native North American peoples in context of other North American societies and cultures.

ANTH 380(NW). Anthropology of Health and Disease. 3 cr. Anthropological approaches to the knowledge and understanding of health and disease in various cultures. GDR:SS1

ANTH 390/590. Special Topics in Anthropology. 1-3 cr. Subtitle will designate area. May repeat for credit with different subtitle.

ANTH 393. Field Trips in Anthropology. 1-3 cr. Direct observation of anthropological data within an environmental context; required readings and field notebook. May repeat with change of locale/topic. May not earn credit in Geog 393 or Geology 393 under same topic/locale.

ANTH 395/595. Special Topics in Anthropology. 1-3 cr. Subtitle will designate area. May repeat for credit with different subtitle.

ANTH 399. Independent Study. 1-3 cr. Independent study of any area of anthropology arranged with instructor and cons chair. Credit based on scope of project. May repeat for 6 cr max.

Anthropology Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

- 111 Human Evolution, 3 cr, (95-97)
- 334 Peoples of Europe, 3 cr, (95-97)
- 336 Peoples of Africa, 2-3 cr, (83-85)
- 337 Peoples of Asia, 2-3 cr, (83-85)
- 350 Cultural Ecology, 3 cr, (95-97)
- 450/650 Anthropological Theory, 3 cr, (95-97)

APPLIED MATHEMATICS

See *Mathematics and Computing*.

APPLIED MUSIC

See *Music*.

APPLIED SOCIOLOGY

See *Sociology*.

ARMY R.O.T.C.

See *Military Science*.

Art and Design (College of Fine Arts and Communication)

Jeff Morin, Chair
Room B-116, Fine Arts Center
Phone: 715-346-2669
E-mail: artdesign@uwsp.edu
Web: www.uwsp.edu/art-design

Faculty: L Ball, D Black, D Bywaters, R Dorethy, R Erickson, A Gary, C Heft, J Morin, S Morris, S Morrison, G Peñafiel, M Pohlkamp, M Rozek, J Smith, R Stolzer, R Stowers, S Sullivan, K Thielking.

Definition: The studio disciplines of art include art history, ceramics, drawing, graphic design, painting, photography, printmaking, sculpture, 2-D design and 3-D design. This field of study incorporates both technical and conceptual approaches to art making.

Accreditation: The UW-Stevens Point Department of Art and Design is an accredited institutional member of the National Association of Schools of Art and Design (NASAD). The primary purpose of the art and design program is to develop professional artists, designers, and educated consumers of fine art and commercial imagery.

Education in the visual arts and design is different from other subjects. The arts bring a special dimension to the academic program of the university—the personal dimension of feeling, sensitivity, empathy, and expression. The visual arts specifically seek to involve students in perceiving the world they live in, reacting to the things they see and feel, and interpreting their emotions, feelings, and insights through a variety of visual materials.

The making of works of art involving various materials and processes, the knowledge of art objects in relation to cultural meaning, and the critical evaluation of art products are the basic aspects of visual art program experiences. Studio work is the foundation upon which each of these experiences is based. From the technical and creative aspects of art production flow various functions, meaning, and special knowledge.

Enrollment Management Plan

The Department of Art and Design is a limited enrollment program. Students admitted to the university are accepted into the department in order of application. We encourage you to apply as early as possible.

Professional Opportunities in Art and Design

Art and design graduates are employed in commercial and private firms, government, industry, and education fields. Some become self-employed professional artists and crafts people. Programs of study in the department prepare you for careers in the visual arts, graphic or advertising design. Employment in a museum/gallery or as an art program director, crafts program director, studio artist, designer, and art administrator are among many other possibilities.

Recommended High School Preparation

In addition to the usual university requirements for admission and entry into any of the art and design programs, high school courses in art and drafting are highly recommended. In addition, if you are planning to enter the

professional art and design BFA (Bachelor of Fine Arts) program, four years of English, one year of algebra, two years of foreign language, and two years of science in high school are recommended.

Curricula in Art and Design

You may choose from a variety of curricula with coursework specifically related to a career or emphasis area. Some of the programs are approved by professional agencies. The Department of Art and Design prepares a curriculum guide and provides an adviser who assists you in planning your long-range programs and specifies the exact requirements for graduation. You may use your electives to broaden your education, strengthen your areas of specialization, or in some cases, meet the needs of two programs of study.

The undergraduate curricular areas are:

Drawing	Ceramics
Painting	Art History
Graphic Design	Printmaking
Photography	Sculpture

General Requirements

Study in a variety of areas of knowledge is required of all undergraduates, and these requirements vary depending on the particular degree. The Department of Art and Design offers the Bachelor of Arts and the Bachelor of Fine Arts degrees. See the previous section of this catalog entitled **General Degree Requirements**.

Courses for Nonart Majors

Courses in the Department of Art and Design are open to all students who meet the prerequisites and secure written department consent. You do not need prior consent for courses that are open to nonart majors.

Exhibition Material, Visiting Lecturer Program, and Edna Carlsen Gallery

The department reserves the right to retain examples of student work for exhibition purposes. The department also maintains an ongoing program of visiting artists and lecturers to supplement the curriculum, and a cooperative schedule of operations and exhibitions with the Edna Carlsen Gallery, housed in the Fine Arts Center. The gallery regularly displays traveling shows and exhibits for student and public viewing.

Course Fees

Fees are charged for certain courses to cover the cost of materials.

Art Foundation

Consists of 18 credits for all art programs: Art 101, 102, 103, 104, 282, 283.

Art Major (BA)

This is the basic liberal arts program. Major consists of 45 credits in art foundation, art history and studio art courses.

1. Art foundation, 18 credits (see above).
2. Art history, 6 credits, upper level.
3. Studio art electives, 21 credits, 200 level or above. To encourage diversity in studio selections, you must take 9 credits from one studio area (listed below), but no more than 9 credits from any single area. The studio areas are drawing, painting, printmaking, photography, ceramics, sculpture, and graphic design.

Art Major (BFA)

This is the professional art program. The major consists of 80 credits in art and art-related courses as follows:

1. Art foundation, 18 credits.
2. One art emphasis area listed below (foundation and emphasis total 80 credits).
3. Distribution of course subjects as specified for the emphasis area.
4. Art history: 6 credits at 300 level (includes Art 393).
5. Senior seminar and portfolio: Art 490 and 491.

Emphases for Art Major (BFA)

Two-Dimensional Emphasis:

1. Art foundation, plus Art 234 and 236, 24 credits.
2. Art history, 6 credits from Art 346, 382, 383, 385, 386, 387, 388, 389, 390, 391, 392, 393, 397, 398K, 399K
3. Studio art courses, 42 credits as follows:
 - a. 2-D, 33 credits from 206, 207, 215, 303, 308, 310, 311, 320, 321, 322, 323, 334, 336, 398A-D, 399A-D, 401, 402, 403, 420 (3 cr max), 424 (2-D area), 434, 436.
 - b. 3-D, 9 credits listed in the 3-D emphasis below.
4. Art 490 and 491, 8 credits.

Three-Dimensional Emphasis:

1. Art foundation, plus Art 234 and 236, 24 credits.
2. Art history, 6 credits from Art 346, 382, 383, 385, 386, 387, 388, 389, 390, 391, 392, 393, 397, 398K, 399K
3. Studio art courses, 42 credits as follows:
 - a. 3-D, 30 credits from Art 201, 251, 252, 261, 353, 354, 355, 361, 398F-J, 399F-J, 420 (3-D, 3 cr max), 451, 461.
 - b. 2-D, 12 credits listed in the 2-D emphasis above.
4. Art 490 and 491, 8 credits.

Graphic Design Emphasis:

1. Art foundation.
2. Art 206, 207, 215, 234, 236, 308, 309, 311, 393, 410, 412, 413.
3. Art history, 3 credits at 300 level.
4. Studio art electives to total 23 credits including 419 and 491. One art elective must be in 3-D.

In the BFA program we encourage you to enhance your specialty by selecting a variety of course groupings. The department chair or your adviser will help you prepare your program. In certain cases, you can make substitutions with the permission of the department chair.

Art History Minor

Consists of 21 credits:

1. Art 282, 283. Take these before any of 2, 3, 4 below.
2. Three credits of American or European history.
3. Four courses of 300 or 400 level art history. Select from Art 346, 380-397, 398K, 399K. You may include others with permission of the art history coordinator and your art adviser.
4. Distribution:
 - a. No more than three upper level art history classes covering the modern period (19th and 20th centuries) may count toward the art history minor.
 - b. No more than two classes covering the 20th century may count toward the art history minor.
 - c. At least one upper level class must be devoted to material before the 19th century or to a non-Western subject (any period).

Academic Standards

All art and design students must meet the academic entrance requirements of the university. Since individual development is an expectation, you should be prepared to present a portfolio of artwork for review and evaluation periodically throughout the program as requested.

Transfer credits: Please refer to the university policy on transferred credits in the **More Academic Information** section, earlier in this catalog.

Entry status: All entering art and design majors (freshmen, changes of major, and transfers) are accepted into the art program as BA majors. Acceptance into the BFA is by portfolio review, as described below.

The Department of Art and Design has the following standards for continuation in its programs:

Art Foundation Requirement: You need a 2.67 or higher GPA in the art foundation, including transfer credits and regardless of any declaration of academic bankruptcy, to maintain your status as an art major and to qualify for portfolio review. The foundation consists of Art 101, 102, 103, 104, 282, 283.

Portfolio Review: Portfolio review and approval is required for admission into the BFA (professional) program. This review, conducted by art and design faculty, occurs in spring. You must have completed Art 101, 102, 103, 104 and choice of six credits from other art studio courses.

The review must take place before you complete 24 studio art credits. If you complete 24 studio art credits during the fall semester, you must complete the review the following spring. **You may attempt the review only once.**

At the time of the review, you may apply for up to two emphasis areas. Admission to the BFA is limited. If you do not pass the BFA review, you may maintain BA status in the Department of Art and Design.

BFA Requirement: In order to complete the BFA program, you must satisfy art foundation and portfolio requirements and maintain a 2.67 or higher GPA in art courses beyond the art core, including transfer credits and regardless of any declaration of academic bankruptcy. Also, for graduation, you must achieve a 2.67 or higher GPA in all art courses, and successfully present a senior exhibition (Art 491) or senior design portfolio presentation (Art 491).

BA Requirement: The basic art program requires a 2.67 or higher GPA, including transfer credits, regardless of any declaration of academic bankruptcy.

Contact the Department of Art and Design for further details. The department chair may make exceptions to the above entrance and retention criteria under unusual circumstances.

Test-Out and Credit-by-Exam Policy

The Department of Art and Design has test-out and credit-by-exam procedures for all general degree requirement (GDR) art courses: Art 181, 282, 283, 346, and 397. If you wish to receive credit-by-exam, you must first confer with the faculty member who teaches the course about requirements for the exam and grading procedures. If you pass the test-out exam, the GDR requirement will be waived, you will receive credit for the course, and the course may count toward an art major and/or minor if appropriate.

The cumulative test-out exam will consist of a specific exercise or series of exercises that are different from those

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used in the existing course. In a course with a significant research component, you may be required to do an appropriate research project. You may take a test-out exam only once for any given class.

Probation

If your GPA is below the minimum requirement, you will receive a warning that your academic status is unsatisfactory. If your GPA falls below the minimum requirement for two consecutive semesters, you will be dismissed as a major. The department policy on repeating courses and academic bankruptcy requires prior departmental authorization, but is otherwise the same as the general university policy, except where higher department GPA requirements apply.

Academic Appeal

You may appeal any action taken by the Department of Art and Design that is based on departmental requirements and policies that are set forth in this catalog. You must appeal in writing to the department chair within 30 days of notification of the action taken. The department chair will determine whether a review is appropriate. If so, a review team, composed of a faculty member appointed by the chair and a faculty member that you select, will review the matter and give a recommendation to the chair.

Courses in Art and Design

ART 101. Design: Two-dimensional. 3 cr. Fundamental visual elements, issues, and principles of two-dimensional design as a foundation for further study in the visual arts and design. May not earn credit in both Art 101 and Interior Architecture 101.

ART 102. Design: Three-dimensional. 3 cr. Fundamental visual elements, issues and principles of three-dimensional design as a foundation for further study in the visual arts and design.

ART 103. Basic Drawing I. 3 cr. Basic drawing using various materials and techniques.

ART 104. Drawing II. 3 cr. Foundations drawing using a variety of media and approaches with emphasis on conceptual development and color theory/application. Prereq: 103.

ART 181(NW). History of the Visual Arts. 3 cr. Survey of world art and architecture. Directions, functions, influences of visual imagery and structures in world culture. Nonart majors may use 181 in lieu of 282 or 283 as prereq for upper level art history courses. (181 does NOT count if you have already taken a higher level art history course.) GDR:HU1.

ART 201. Intermediate 3-D Studio Design. 3 cr. Applied 3-D design theory and concepts using 3-D computer modeling and traditional 3-D materials. Prereq: 101, 102 or cons instr.

ART 206. Technical Drawing. 3 cr. Drawing skills in translating three-dimensional forms through various spatial systems leading to form and symbol development. Prereq: 101, 104, or cons instr. (I)

ART 207. Basic Graphic Design. 3 cr. Structure of words and images in graphic design. Basic principles of typographic design. Prereq: 101, 104, or cons instr. (II)

ART 215. Basic Photography. 3 cr. Introduction to black and white photography as expressive creative medium. Historical and contemporary issues, both technical and aesthetic, emphasizing development of skills necessary to use photographic medium and personal application. Student must furnish light meter and camera with adjustable aperture and focusing. Prereq: 104 or cons instr.

ART 234. Basic Painting. 3 cr. Introduction to oil painting, with traditional and contemporary methods. Develop critical judgment by exploring technical, conceptual, historical perspectives. Prereq: 104.

ART 236. Life Drawing. 3 cr. Drawing the human figure with attention to anatomy, using a variety of media. Prereq: 103.

ART 251. Sculpture Survey. 3 cr. Understanding relationships between sculptural concepts and materials through work in a variety of additive and reductive processes. Prereq: 101, 102, 103, 104. Required for sculpture majors.

ART 252. Figure Modeling. 3 cr. Introduction to life modeling with emphasis on anatomy and traditional modeling techniques. Basic moldmaking and nonmetals casting. Cross-cultural overview of figurative sculpture from prehistory to present. Prereq: 101, 102, 103, 104, 236 (may be con reg). Required for sculpture majors.

ART 261. Basic Ceramics. 3 cr. Introduction (based on clay and glaze calculations and chemical theory) to variety of ceramic materials and processes of forming, finishing, and firing. Also, manipulative and technical skills, aesthetic exploration, ceramic tradition and contemporary trends. Prereq: 102 and 104.

ART 282. Survey of Western Art History I. 3 cr. History of art in ancient and medieval cultures, emphasizing historical, cultural, religious, economic, and political factors that influenced the architecture, painting, and sculpture of Egypt, the ancient near East, Greece, Rome, Byzantium, and medieval western Europe. GDR: HU1

ART 283. Survey of Western Art History II. 3 cr. History of art from the 13th century to the present, emphasizing historical, cultural, religious, economic, and political factors which influenced the architecture, painting, and sculpture of Europe and the U.S. GDR: HU1

ART 303. Advanced Drawing I. 3 cr. Advanced problems in drawing emphasizing experimentation, individual conceptual development and contemporary issues in art. Prereq: 104, 236.

ART 308. Letterform. 3 cr. Introduction to design of letterforms through hand and computer created characters. Aesthetic issues of form and proportion. Review of historical developments in letterform design and visual semantics. Prereq: 207, or cons instr. (I)

ART 309. Image Use In Graphic Design. 3 cr. Develop visual skills using photographic and other image-making techniques for graphic design solutions. Student must furnish camera with adjustable aperture and focusing. Prereq: 206, 207, 215, or cons instr.

ART 310. Illustration. 3 cr. Technical and graphic illustration using a variety of techniques and materials. May repeat course with cons instr. Prereq: 236 or cons instr.

ART 311. Intermediate Graphic Design. 3 cr. Combines photographic, typographic, and rendered elements in applied professional and sequential problems, emphasizing design for print processes. Prereq: 206, 207, or cons instr. (I)

ART 320. Intermediate Photography. 3 cr. Further study of photography as expressive art form. Explore photographic vision. Develop personal style, identity in image making, and personal connection to work. Refine technical aspects of black and white format. Prereq: 215.

ART 321. Intaglio Printmaking. 3 cr. Introduction to intaglio as an expressive art form. Familiarization with technical and conceptual aspects through demonstrations, practice, and readings. Prereq: 104.

ART 322. Lithographic Printmaking. 3 cr. Introduction to lithography as expressive art form. Become familiar with technical and conceptual aspects through demonstrations, practice, and readings. Prereq: 104.

ART 323. Relief Printmaking. 3 cr. Introduction to relief print media as expressive art form. Learn technical and conceptual methods through demonstrations, practice, and readings. Prereq: 104.

ART 334. Intermediate Painting. 3 cr. Problem solving in painting with emphasis on personal ideas, goals, and self-evaluation. Research historical and contemporary ideas, styles, methods, and materials relative to individual application in painting. Prereq: 234.

ART 336. Life Drawing. 3 cr. Continued study of human figure emphasizing experimental work. Prereq: 236.

ART 346(NW). Cultural History of Crafts. 3 cr. Survey crafts of diverse groups including North and South American Indians, European folk cultures, Asian continent and island nations. Discover and appreciate non-Western groups and women in the visual arts. GDR: HU1

ART 353. Carving and Assemblage. 3 cr. Hand and power techniques in wood and stone carving. Cross-cultural overview of related works. Prereq: 251. Required for sculpture majors.

ART 354. Welding and Fabrication. 3 cr. Metal processes including welding and fabrication; also technical skills, research, and assigned projects to focus on concepts and specific media. Cross-cultural overview of related works. Prereq: 251. Required for sculpture majors.

Art 355. Metal Casting. 3 cr. Foundry processes including casting, chasing and patination. Technical skills, research, and assigned projects to focus on concepts and specific media. Cross-cultural overview of related works. Prereq: 251 or 252, 354. Required for sculpture majors.

ART 361. Intermediate Ceramics. 3 cr. Increasing complexity in 3-D construction techniques including mold-making, surface treatments, and color use. Focus on artistic goals, studio management responsibility, and production control. Prereq: 261.

ART 382. History of Ancient Greek Art. 3 cr. Survey of ancient Greek art, archaeology, and architecture; plus historical, social, cultural, and political conditions that influenced Greek art in the Bronze Age and the Archaic, Classical, and Hellenistic periods. Prereq: 282, or 181 for nonmajors.

ART 383. History of Ancient Roman Art. 3 cr. Historical and cultural survey of Etruscan, Republican Roman, and Imperial Roman art, architecture and archaeology. Prereq: 282, or 181 for nonmajors.

ART 385. Italian and Northern Renaissance Art I, 1250-1450. 3 cr. Survey of Italian Renaissance painting, architecture, and sculpture, from Proto-Renaissance to peak of the Quattrocento; also early northern Renaissance art. Prereq: 283, or 181 for nonmajors.

ART 386. Italian and Northern Renaissance Art II, 1450-1600. 3 cr. Survey of Italian Renaissance painting, sculpture, and architecture, from the middle of the Quattrocento through Mannerist period; also northern Renaissance and Venetian Renaissance. Prereq: 283, or 181 for nonmajors.

ART 387. History of Baroque and Rococo Art. 3 cr. Historical survey of European art and architecture of 17th-18th centuries-period of the "Great Masters." Relationship between artistic style and history, religion, culture, economics and politics. Artists include Bernini, Caravaggio, Poussin, Rembrandt, Wren, Watteau. Prereq: 283, or 181 for nonmajors.

ART 388. Nineteenth Century European Art. 3 cr. Survey of European art from Neo-Classical through Impressionist periods; relationships between contemporary society and politics, artistic philosophies, and artistic style. Artists include David, Ingres, Gericault, Delacroix, Constable, Turner, Corot, Courbet, Millet, Manet, Moissot, the Impressionists. Prereq: 283, or 181 for nonmajors, and cons instr.

ART 389. Rise of Modernism in European Art: 1875-1945. 3 cr. Historical survey of European art and its social, political, and philosophical climate from Post-Impressionists through 1945. Artists and styles include Cezanne, Degas, Post-Impressionists, Cubism, Fauvism, Dada, de Stijl, Expressionism, Surrealism, et al. Prereq: 283, or 181 for nonmajors, and cons instr.

ART 390. American Art I: Colonial through 19th Century. 3 cr. Historical survey of American art from colonial inception through middle of the 19th century (Copley, Stuart, Hudson River School, Luminists, et al). Prereq: 283, or 181 for nonmajors, and cons instr.

ART 391. American Art II: 19th Century through World War II. 3 cr. Survey of American art from birth of American "modernity" in the late 19th century through the triumph of the "New York School." (American Impressionism, Sargent, Cassatt, the Ash Can School, the Armory Show, Synchromists, O'Keeffe, the New York School, et al.) Prereq: 283, or 181 for nonmajors, and cons instr.

ART 392. American and European Art Since World War II. 3 cr. Survey of all manifestations of contemporary art. Prereq: 283, or 181 for nonmajors, and cons instr.

ART 393. American Graphic Design History. 3 cr. History of development of graphic design in North America from western European colonization through the present. Prereq: 282, 283, or cons instr.

ART 397. Art History In International Programs. 3 cr. Advanced art history during UWSP semester abroad or study tour. Subject varies by destination and resources. Emphasis on art and culture of area visited. May repeat 3 times (9 cr) under different subtitles. May not take on-campus course covering same material. Prereq: Admis to UWSP study tour or semester abroad. (181, 282, 283 recommended.) GDR:HU1

ART 398. Special Topics. 1-3 cr. Group work in one medium, technique, or area. Subtitle/credit vary. Prereq: Cons chair. GDR:EL

398A-Graphic Design; 398B-Drawing; 398C-Printmaking; 398D-Painting; 398F-Crafts; 398G-Sculpture; 398H-Ceramics; 398J-Art Metal; 398K-Art History; 398L-Z (subtitle to be supplied).

ART 399. Special Work. 1-3 cr. Upperclass art majors or minors may arrange for special advanced work with cons chair and approp faculty member. Credit based on scope of project. May repeat for 6 cr max.

399A-Design; 399B-Drawing; 399C-Printmaking; 399D-Painting; 399F-Crafts; 399G-Sculpture; 399H-Ceramics; 399J-Art Metal; 399K-Art History; 399L-Z (subtitle to be supplied).

ART 401. Professional Photographic Techniques. 3 cr. Standard studio lighting techniques including hotlights/strobe units. Real problem solving using color transparency media in community and university photography projects. Prereq: 320.

ART 402. Advanced Photography. 3-6 cr. Advanced study in photography, with individualized instruction, image making, and expression. Emphasis on formal, intellectual, and aesthetic issues. Develop comprehensive, cohesive, technically proficient body of work. May be repeated. Prereq: 320.

ART 403. Advanced Drawing II. 3 cr. Continued investigation of advanced drawing concepts. Emphasis on developing a concise body of drawings. May repeat for 6 cr max. Prereq: 303.

ART 410. Graphic Design Processes. 3 cr. Concepts and applications of graphic design through commercial production formats. Design and produce hand and computer mechanicals for various print processes, emphasizing skill, craftsmanship, visual aesthetics. Prereq: 311, or cons instr. (I)

ART 412. Advanced Problem Solving in Design. 3 cr. Advanced applied problems in package design. Emphasis on formal, intellectual, aesthetic and pragmatic issues. Problems organizing word and image with the container. Work leading to significant portfolio development. May repeat for 6 cr max. Prereq: 410, or cons instr. (I)

ART 413. Problem Solving in Design II-Print. 3 cr. Advanced applied problems in print design. Emphasis on formal, intellectual, aesthetic and pragmatic issues. Problems organizing word and symbol to form corporate identity. Work leading to significant portfolio development. May repeat for 6 cr max. Prereq: 410, or cons instr. (II)

ART 418. Gallery Internship. 1-3 cr. Internship in the Carlsten Art Gallery. Training in philosophical issues of gallery management and exhibition programming. Technical training and practice of gallery management include organizing and hanging shows, planning receptions, grant and fund-raising, etc. May repeat for 3 cr max. Does not count as art elective.

ART 419. Design Internship. 3-9 cr. Studio experience in a chosen area design firm; credit approved on submission of portfolio and written description of experience in consultation with the firm; elective credits only. Prereq: Cons art/design faculty.

ART 420. Studio Art Internship. 1-3 cr. Visual arts experience in a selected area, including studio techniques, management, process exploration and research. May repeat for 3 cr max. Prereq: At least 15 cr advanced visual arts studies, cons chair.

ART 421. Advanced Printmaking. 3-6 cr. Advanced study in printmaking with individualized instruction, image making, and expression. Formal, intellectual, and aesthetic issues. Develop comprehensive, cohesive, and technically proficient body of work. May be repeated. Prereq: 321 or 322 or 323.

ART 424. Monotype Printmaking. 3 cr. Introduction to monotypes as an expressive art form. Familiarization with technical and conceptual aspects through demonstrations, practice and readings. Prereq: 104 or cons instr.

ART 434. Advanced Painting. 3-6 cr. Advanced study in painting with individualized instruction, image making, and expression. Formal, intellectual, and aesthetic issues. Develop comprehensive, cohesive, and technically proficient body of work. May be repeated. Prereq: 334.

ART 436. Life Drawing. 3 cr. Content determined by student and instructor, based on previous coursework in life drawing. Prereq: 336 or cons instr.

ART 451. Advanced Sculpture. 3-6 cr. Advanced study in sculpture. Individual instruction. Formal, intellectual, and aesthetic issues. Develop comprehensive, cohesive, and technically proficient body of work. May be repeated. Prereq: 251 and one 200 or 300 level course in area of proposed study. At least 3 cr of 451 required for sculpture majors.

ART 461. Advanced Ceramics. 3-6 cr. Advanced study in ceramics with individualized instruction, image making, and expression. Formal, intellectual, and aesthetic issues. Develop comprehensive, cohesive, and technically proficient body of work. May be repeated. Prereq: 361.

ART 490. Senior Seminar. 4 cr. Contemporary criticism and theory for BFA students in preparation for senior exhibition. Readings from contemporary literature in studio disciplines. Discuss, present, and write critical response to current issues and ideas. Concurrent development of student senior portfolio. (I) Prereq: Sr st in BFA art major or cons instr.

50 Arts Management

ART 491. Senior Exhibition. 4 cr. Prepare senior portfolio (graphic design emphasis) or gallery show (2-D or 3-D emphasis). Studio work to enhance and complete student portfolio: organize and install an exhibition in the Edna Carlsen Gallery or participate in the Graphic Design Senior Portfolio Review; faculty evaluation of exhibition. (II) Prereq: Sr st in BFA art major, 490 required for 2D and 3D emphasis.

ART 796. Independent Study. 1-3 cr. Special work. Prereq: Cons instr.

ART 798. Special Topics. 1-3 cr.

Art Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

106	Layout and Lettering, 3 cr, (87-89)
200	Introduction to Computers in Art, 3 cr, (97-99)
284	Survey of Arts of Africa, Oceania, & Americas, 3 cr, (89-91)
347	American Indian Crafts, 2 or 3 cr, (89-91)
348	American Indian Crafts, 2 or 3 cr, (89-91)
350	Computer Graphics II, 3 cr, (95-97)
400	Computer-Aided Design I, 3 cr, (95-97)
441	Crafts, 3 cr, (89-91)
442	Crafts, 3 cr, (89-91)
450	Computer-Aided Design II, 3 cr, (95-97)
701	Historical/Philosophical Concepts of Art, 3 cr, (89-91)
703	Drawing, 3 cr, (89-91)
721	Printmaking, 3 cr, (89-91)
731	Watercolor Painting, 3 cr, (89-91)
734	Painting, 3 cr, (89-91)
736	Life Drawing, 3 cr, (89-91)
743	Fiber Arts, 3 cr, (89-91)
751	Sculpture, 3 cr, (91-93)
761	Ceramics, 3 cr, (91-93)
771	Art Metal, 3 cr, (91-93)

Art Education Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

322	Techniques in the Elementary School: Art, 2 cr, (95-97)
331	Techniques in Secondary Education: Art, 2 cr, (95-97)
340/540	Curriculum in Art, 2 cr, (91-93)
350/550	Art for the Exceptional Child, 3 cr, (91-93)
398	Student Teaching in Elem and Sec Art, 8-16 cr, (95-97)
498	Intern Teaching, variable cr, (95-97)
710	Art Education Topics, 1-2 cr, (95-97)

Arts Management (College of Fine Arts and Communication)

Gerard McKenna, Coordinator
Room A202, Fine Arts Center
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E-mail: gmckenna@uwsp.edu

Definition: Arts management combines skills in business, communication and the arts to promote all facets of the arts in any size community. Arts managers are responsible for financing and marketing, developing programs, managing facilities, writing grants, and managing personnel to support artists and arts agencies.

The continual growth and complexity of theaters, art centers, dance groups, and music organizations have created a demand for skilled arts administrators who can develop programs, write grants, provide technical assistance, and be responsible managers. This interdisciplinary major is a blend of artistic and managerial courses that provides you with necessary theory and practice to begin a career in arts management or gain acceptance into a graduate program.

This degree program offers preparation in the major with the opportunity, in consultation with your adviser, for a minor area of concentration. The program contains courses in communication, business and the arts with opportunities in music, art, dance, and theatre, two campus-based internships, and finally a semester-long externship in an arts agency in a larger city.

With this major you will better understand the artists' needs and aspirations and see the interrelationship of the arts, communication skills, and business constraints that apply

to the financing, producing, promoting, and marketing of the arts. In addition to artistic and cultural values, you will learn practical skills of organizational development, public relations, marketing the arts, and most importantly leadership in the arts.

Arts Management Major (BA)

1. **Business**, 12 credits: Accounting 210; Business 330, 340, and 380.
2. **Communication**, 12 credits: Communication 221, 230, 334 and 431.
3. **Creative arts:** In consultation with the adviser, select 12 credits of courses from music, theatre, dance, art.
4. **Arts management**, 19 credits required: Arts Management 195, 280, 380, 395, and 480.
5. **Minor:** In consultation with the arts management adviser, you must choose a minor within the university. (Courses in the minor cannot be counted toward creative arts, item 3 above.)

Admission Procedures and Academic Standards

1. The arts management major is open to all students.
2. To declare a major in arts management, fill out the appropriate form in the Arts Management Office, Room 200, Fine Arts Center.
3. Initial enrollment in the program is as a "pre-arts management major." The dean of the College of Fine Arts and Communication serves as your adviser.
4. You are admitted to the arts management program after you complete 30 credits of university coursework with a 2.5 grade point average (GPA) and successfully complete Arts Management 195.
5. In order to continue in the program you must have maintained a 2.5 GPA and present evidence of a high degree of initiative and self-motivation, with a strong entrepreneurial perspective for the field of arts management.
6. You must maintain a cumulative grade point average of **2.75 for all courses in the major** regardless of a declaration of academic bankruptcy to continue in the major and for graduation.
7. Courses included in the GPA calculation above are the required set of courses in arts management, business, communication, and creative arts area (listed above).

Courses in Arts Management

ARTM 195. Introduction to Arts Management. 1 cr. Overview of the business of managing nonprofit organizations and people in arts-related professions. Awareness of the field, private and public arts agencies, and the arts in local communities. (spring only)

ARTM 280. Internship in Arts Management. 2 cr. Initial field experience in local arts agency or campus arts office. Assigned tasks are evaluated at mid-semester and end of course. Prereq: 195.

ARTM 380. Internship in Arts Management. 2 cr. Advanced field experience in local arts agency or campus arts office. Assigned tasks are evaluated at mid-semester and end of course. Prereq: 195.

ARTM 395. Seminar in Arts Management. 2 cr. Capstone course in local arts agency management, budgeting, promotion and publicity of arts events, with presentations by guest arts agency managers. Prereq: 380. (fall only)

ARTM 480. Externship in Arts Management. 12 cr. Placement in arts agency in a large city environment, full time for 15 weeks. Prereq: 395.

Astronomy

(College of Letters and Science)

Robert Beeken, Chair of Physics and Astronomy
Room B-109, Science Building
Phone: 715-346-2139
E-mail: Physics.and.Astronomy.Office@uwsp.edu
Web: www.uwsp.edu/physastr

Definition: Astronomy investigates the nature of celestial objects such as stars, planets, and galaxies, including their magnitudes, motions, distances and periods of revolution.

Courses in **astronomy** are taught by members of the Department of Physics and Astronomy.

Test-out and Credit-by-Exam Policy

The Department of Physics and Astronomy will offer test-out examinations for all general degree requirement (GDR) courses offered by the department. The exams will cover both lecture and laboratory topics.

If you wish to take a test-out exam, confer with the department chair who will arrange for a faculty member to administer and grade a comprehensive written exam. A passing grade will be at least five percent above the most recent class average. You will be informed of the required passing score before taking the exam. Results will be evaluated and (if appropriate) credit granted by the departmental Educational Policies Committee. You may take a test-out exam only once.

Course credit can be granted for Astronomy 205, 206, 311; Physics 150, 201, 202, 203, 204, 250. Credit will NOT be granted for Astronomy 100 and Physics 100 and 101, but the GDR science credit will be waived.

NOTES:

1. You may not take both ASTR 100 and 311 for credit.
2. If you take ASTR 205 or 206, you may not subsequently take 100 for credit.
3. You may not apply both ASTR 311 and 205 for GDR credit. You may not apply both 311 and 206 for GDR credit.
4. You may take both ASTR 205 and 206 for GDR credit.

Courses in Astronomy

ASTR 100. Unveiling the Universe. 3 cr. An encounter with ideas concerning the physical universe, from earth to intergalactic space. 2 hrs lec, 2 hrs lab per wk. You may not take both 100 and 311 for credit. Also, you may not take 100 for credit if you have already taken 205 or 206. GDR:NS

ASTR 205. The Solar System. 4 cr. A contemporary perspective with emphasis on understanding basic principles of astronomy, coordinate systems, telescopes, planetary phenomena, and recent results of planetary exploration. 3 hrs lec, 3 hrs lab per wk. Prereq: Math 100 or equiv or cons chair. GDR:NS

ASTR 206. Stars and Stellar Systems. 4 cr. An examination of the content and evolution of the universe, including the birth and death of stars, the nature of galaxies, and the mystery of quasars and blackholes, with emphasis on understanding physical concepts. 3 hrs lec, 3 hrs lab per wk, some night observations. Prereq: Math 100 or equiv or cons chair. GDR:NS

ASTR 311. Introduction to Astronomy. 3 cr. Descriptive approach to astronomy through study of the solar system, stars, star clusters, nebulae, and galaxies; evening meetings required for observation; use telescopes and planetarium. You may not take both 311 and 100 for credit. You may not apply both 311 and 205 for GDR credit. You may not apply both 311 and 206 for GDR credit. This course is not open to students who have had both 205 and 206. GDR:NS-BS

ASTR 796. Independent Study. 1-4 cr. Planned study designed to enrich and supplement the student's preparation in astronomy. Regular scheduled conferences with the staff supervisor.

Astronomy Latent Courses: Not offered recently. Full description in (xx-xx) catalog.
370/570 Astronomy for Teachers, 4 cr, (91-93)
371/571 Laboratory in Planetarium Studies, 2 cr, (91-93)
380 Selected Topics, 1-3 cr, (01-03)

ATHLETIC TRAINING

See **Health, Exercise Science, and Athletics.**

AUDIOLOGY

See **Communicative Disorders.**

BILINGUAL EDUCATION

See **Foreign Languages.**

Biology

(College of Letters and Science)

Robert A. Bell, Chair
Room 167A, College of Natural Resources Building
Phone: 715-346-2159
E-mail: biology@uwsp.edu
Web: www.uwsp.edu/biology

Faculty: K Almasi, T Barta, R Bell, D Caporale, R Crowther, V Freire, E Gasque, P Gasque, I Girard, C Hartleb, S Jansky, E Judziewicz, W LeGrande, D Post, R Rosenfield, R Schmitz, S Sepsenwol, E Singsaas, D Staszak, E Stern, S Taft, S Van Horn, E Wild, C Yahnke.

Definition: Biology is the study of life. From simple, single-celled bacteria to complex, multicellular plants, animals, and fungi, biologists study how life works. Genetics, physiology, ecology, evolution, behavior, and anatomy of organisms fall within the work of the biologist as does the study of populations and communities of organisms.

NOTES:

1. The biology major is the same regardless of the type of degree you earn (BA or BS) or the college from which you graduate. If you have a single major (biology), you will graduate from the College of Letters and Science. If you are in education, you may graduate from either the College of Letters and Science or from the College of Professional Studies. If you have a double major, such as biology and natural resources, you may graduate from the College of Letters and Science or the College of Natural Resources.
2. Courses in biology are open to all students who meet the prerequisites.

Biology Major

A minimum of 34 credits in biology as follows:

1. Biology 130, 160, 210, 305, 306, and 490 or 498 with seminar designation. If you complete the College of Natural Resources summer camp, do not take 306.
2. One course from Biology 281, 285, 314, 351.
3. Complete at least one course from at least two of the following course clusters.
 - a. One course from Biology 330, 331, 332, 337, 338, 342, 344, 346, 351, 355; or two from Biology 308, 339, 345, 347.
 - b. One course from Biology 281, 285, 286, 360, 361, 362, 367, 370, 373, 374, 375, 376, 377, 378, 379, 388; Water 387.
 - c. One course from Biology 309, 314, 317, 323, 326, 333, 335, 415; Chemistry 365; or both Biology 318 and 319.

NOTE: You may use Biology 281, 285, 314, and 351 to satisfy only ONE of the required areas.

- Collateral courses:
 - Chemistry 105 and 106, or 115 and 116.
 - Math 111 or 120 or 355.
- Elective credits to reach a minimum of 34 biology credits. Select from additional biology courses, Chemistry 365, Water 387, 481, 483.
- Biology majors must complete at least 12 biology credits at UW-Stevens Point.
- At least one writing emphasis (WE) course in natural science (astronomy, biology, chemistry, geography, geology, physics) or from the College of Natural Resources is **recommended but not required**. Only courses that are part of the biology major will count toward the minimum of 34 credits for the major.

Biology Minor

Consists of a minimum of 22 credits:

- Biology 130 and 160.
- Any two of the following categories:
 - Biology 210.
 - Biology 305.
 - Biology 281, or 285, or 314, or 351.
- Elective credits in biology (may include Chem 365, Water 387, 481, 483).

Conservation Biology Minor

See **Natural Resources-Wildlife**.

Academic Standards and Policies

Your status as a biology major depends on several factors.

- If you are a new freshman and have been admitted as an approved biology major, a biology faculty member will be assigned to advise you.
- If you have not been admitted as a biology major upon initial enrollment, you may apply for admission after you complete Biology 130 and 160 with a 2.50 GPA in courses required for the biology major.

To be admitted, retained, and approved for graduation as a biology major or minor, you must have a minimum cumulative grade point average of 2.50 for all courses taken within the major (2.75 to student teach in biology), including collateral courses and regardless of a declaration of academic bankruptcy. If you are a transfer student, you meet this requirement by having at least a 2.50 GPA in the total major (UWSP and transfer credits).

NOTE: No more than 6 credits of D work in biology courses will be counted toward the completion of the biology major or minor. All grades of D or F are used to compute the cumulative GPA in the major or minor. If a course is repeated, the last grade earned is the grade used in the GPA calculation. Courses with grades of D or F may be repeated only if a seat is available after the regular registration period.

Teacher Certification: Enrollment caps are in effect for those seeking teacher certification. Please contact the Biology Department early for entrance requirements and application procedures. Also see information about the Professional Education Program and the secondary education curriculum for teacher certification in the **Education** section of this catalog.

Credit-by-Exam Policy: Credit-by-exam is available for Biology 100, 101, 130, 160, 210, and 305. First, confer with the department chair about the course exam you wish to take. The exam will be prepared by a faculty member who teaches the course. You will receive credit for the course if you pass the test with a grade of 70 percent or higher. You may take an exam for credit only once.

Biology 101 Substitution Policy: If you take Biology 101 prior to 130 and 160 and receive a grade of A, you may with approval of the chair, use 101 as a substitute for either Biology 130 or 160. Other conditions apply; see the chair for additional information. NOTE: This policy applies only to biology majors and minors.

Advanced Placement (AP) Exams: If you wish, you may use a score of 5 on the biology AP exam as a substitute for either Biology 130 or 160. See the chair or advising coordinator to exercise this option. If you score 3 or 4 on the AP exam, you will receive 5 credits toward graduation, but NOT toward a biology major. Majors and minors must complete Biology 130 **AND** 160.

Areas of Emphasis

The areas listed below **ARE NOT** majors or specialties that will be listed on your transcript. These are simply ways of personalizing the required core curricular elements, collateral courses, and electives to best fit particular career goals. These are **suggestions, not requirements**, and should be considered as a way of selecting the most appropriate courses to satisfy both the biology major and your interests while best preparing you for a career in that area.

You should discuss your selection of options and recommended courses with the Biology Peer Assistance Center counselors and with your adviser to ensure adequate preparation for specific careers.

With the minimum requirements for a biology major most students will be able to enter a profession upon graduation. If you want to advance in your profession after employment or enter graduate school, medical school, or veterinary medicine, it will be wise to take Math 111 or 120, and 355; Physics 203 and 204; and a chemistry minor with Chemistry 365 as an elective.

NOTE: Keep in mind that employers are looking for things other than coursework when you apply for a job in the biological sciences or post-graduate training. The three most important things besides coursework are: **communication skills, leadership skills, and in-field experience**. Check with a Biology Peer Assistance Center counselor and your adviser to find out how you might enhance these three areas.

Aquatic Biology: Recommended: 360 or 361 or Water 387; 338, 347, 374, 375; Chemistry 220, or 325 and 326; Math 355; Physics 203, or 201 and 202; Water 481, 483. Supplementary: Biology 362; Water 389, 480, 482, 484.

Biobusiness: Take at least the following business courses: Accounting 210, Economics 210 and Business 330 and 336. In certain cases it might be appropriate to take a business minor. The following courses are recommended for the following business emphases: **Horticulture:** Biology 333, 335, 337, 342, 346, 351, 367; Chemistry 220 and 260; Forestry 331, 333; Soils 260. **Pharmaceutical and Biomedical Sales:** Biology 285, 314, 333, 382; Chemistry minor with Chemistry 365 as an elective.

Biotechnology: 310, 314, 317, 318, 319, 326, 333, 490 (molecular biology), 498 (both immunology and DNA sequencing); chemistry minor with Chemistry 365 as elective; Physics 203 and 204; Math 111 or 120.

Botany: Recommended: 330, 337, 338, 342, 346, 351, 355; Organic Chemistry. Supplementary: 314, 331; 333 or 355; 344, 367; Soils 260.

Ecology/Environmental: Recommended: 281 or 351; 342, 355, 360, 372, 375; Modules in Ecology; Chemistry 220; Math 355; Geography 379; CIS 102. Supplementary:

English 254; Geography 101; Math 111; Physics 203, or 201 and 202; Political Science 304; Philosophy 380.

Education: Recommended: 281 or 285; 330 or 342; 314 or 333 or 351. Supplementary: 355 or 384, 385, 386; 360, 367 or 372. You need a faculty adviser in biology AND one in education.

Graduate Work/Research: Most graduate programs in biology require a chemistry minor with Chemistry 365 as the elective, Physics 203 and 204, and Math 111 or 120, and 355.

Microbiology: Recommended: 314; 333, 335 or 337, 415, 498 (Immunology). Supplementary: 338, 362, 399; Math 355; chemistry minor.

Natural History: Recommended: 322, 342, 361, 367, 372, 379. Supplementary: 339, 399; Geology 101; Geography 101; Natural Resources 368, 369.

Zoo and Aquaria: Biology 281, 362, 370, 372 (4 cr) or one of the vertebrate courses: 374, 376, 377 or 378; 382, 385, 386, 388 and 499 (internship).

Zoology: Recommended: 281; 311 or 314; 370 or 371; 344 or 361 or 362 or 367; 372 or 374 or 375 or 376 or 377 or 378. Supplementary: 310, 320, 322, 373, 381, 385, 388; Water 481; Geology 339.

Preprofessional:

Although not required, we advise students in all preprofessional areas to get a bachelor of science degree before entering a professional school. All areas listed below require Biology 160. English, humanities, psychology, sociology, and speech. Contact the appropriate preprofessional adviser for suggested electives and requirements as early as possible.

Prechiropractic: At least 90 credits to include Biology 285, 286, 333; Chemistry 114, 115, 116, 325, 326, 328; Physics 203 and 204 (or a substitute); English 101 and 102; Psychology 110. Grades must be C or above. A bachelor's degree is required to practice in Wisconsin and many other states.

Pre dental: Biology 285; Chemistry 114, 115, 116 (or 105 and 106), 325, 326, 328; Physics 203, 204; additional helpful courses: Biology 210, 314, 317, 333, 370; Psychology 260 or 315.

Pre medical: Biology 160, 210, 285; Chemistry 114, 115, 116, (or 105 and 106), 325, 326, 328; Physics 203 and 204; Math (2 semesters) 111 or 120 or 355. Additional helpful courses: Biology 314, 333, 370, 382, 498 (immunology); Chemistry 365 or 260.

Premortuary: A minimum of 28 credits including Accounting 210; one year of chemistry; Math 100.

Preoptometry: Normally, at least 90 credits including: Biology 160, 210, 317, 333; Chemistry 105 and 106 (or 115 and 116), 325, 326, 328; Math 111 and 355; Physics 203, 204; additional recommended courses are Biology 285, 286; Chemistry 365; Psychology 110, 260.

Prephysician's Assistant: Biology 160, 285, 286, 333; Chemistry 105/106, 220, 260; Psychology 110; Math 100.

Preveterinary: Biology 160, 210; chemistry minor with Chemistry 365 as the elective; Physics 203 and 204; Math 111 or 120, or 355; freshman English; 6 credits of social science and humanities; additional helpful courses include Biology 281 or 285, 333, 362, and 388. If you are considering veterinary research, take at least some of Biology 310, 314, 317, 382, 433, and 498 (both immunology and recombinant DNA laboratory).

Courses in Biology

BIOL 100. Biological Principles and the Human Environment. 3 cr. Survey of biology emphasizing present and future relationships of humans to their environment. 2 hrs lec, 3 hrs lab per wk. No credit given for GDR or graduation if Biology 101 is also taken. Not accepted for biology major or minor. GDR:NS

BIOL 101. General Biology. 5 cr. Biological principles; survey wide variety of plant and animal life. 3 hrs lec, 3 hrs lab per wk. Addl evening test sections for major exams. GDR:NS

BIOL 130. Introduction to Plant Biology. 5 cr. General biological principles with emphasis on growth, reproduction, structure, and functions of plants; study morphology (form and structure) of typical plants. 3 hrs lec, 4 hrs lab per wk. GDR:NS

BIOL 140. Edible and Poisonous Plants. 2 cr. Identify edible and poisonous plants, especially local wild species of higher plants; nutritional values and toxic components. 1 hr lec, 2 hrs lab per wk.

BIOL 160. Introduction to Animal Biology. 5 cr. Anatomy, physiology, adaptation, and classification of animals; morphology and anatomy of various types of animals. 3 hrs lec, 3 hrs lab per wk. Additional 2-hour test sections 4 times during the semester. GDR:NS

BIOL 202. Human Reproduction. 2 cr. Anatomical, physiological, and developmental aspects of human reproduction. Does not count toward biology major/minor. Prereq: So st. GDR:NS-BS

BIOL 210. Principles of Genetics. 3 cr. General principles of heredity and variation of plants and animals, including humans. Prereq: 101, 130, or 160.

BIOL 281. Animal Physiology. 4 cr. Normal functions of organ systems in wild and domestic vertebrates and invertebrates. 3 hrs lec, 3 hrs lab per wk. Prereq: 160. No credit counted for graduation or major if Biology 285 (or equiv) is counted.

BIOL 285. Human Physiology. 4 cr. Normal functions of organ systems in humans; fulfills physiology requirements for biology, human development and nutritional sciences, physical education majors, and is recommended as preprofessional for medical or allied health fields. 3 hrs lec, 3 hrs lab per wk. Prereq: 160 or 101; Chemistry 101. Does NOT count for graduation or major if Biology 281 is counted. GDR:NS

BIOL 286. Human Anatomy. 3 cr. Gross human anatomy using models, charts, readings, and prosected cadaver demonstrations. Lecture and lab complement Biology 285 to provide general background in structure and function. For prenursing students and others preparing for health care careers. 2 hrs lec, 3 hrs lab per wk. Prereq: 285 or con reg in 285.

BIOL 305. General Ecology. 3 cr. Interrelationships of plants and animals; ecosystem concepts; organization and distribution of biotic communities; application of ecological principles to human affairs. Prereq: 101; or 130 and 160.

BIOL 306. Ecological Methods. 1 cr. Application of ecological methods in field and laboratory analyses of ecosystems. 3 hrs lab per wk. Not open to students who have completed CNR summer camp. Prereq: Con reg in 305; or 305 and cons instr.

BIOL 308/508. Plant Communities of the Upper Midwest. 2 cr. Survey biomes of upper Midwest, emphasizing plant communities. 2 hrs lec, 3 hrs lab for 8 wks. Local field trips. Prereq: 305 or cons instr.

BIOL 309/509. Field Biology. 3 cr. Field trips. Study, collect, prepare, and identify plants and animals. 1 hr lec, 6 hrs lab per wk. If 379 is taken, credit counts only with cons chair. Prereq: 101, or 130 & 160.

BIOL 310/510. Plant Genetics. 3 cr. Genetics of higher plants at the molecular, cellular, organismal, and population levels. 3 hrs lec per wk. Prereq: 210.

BIOL 311/511. General Principles of Organic Evolution. 3 cr. Natural patterns (variation, classification, phylogeny, biogeography) and processes (genetic drift, natural selection, adaptation, speciation) that underlie the origin and diversification of life on earth. Philosophy of science and history of evolutionary theory. Character evolution and human evolutionary biology. Prereq: 130 and 160; or cons instr.

BIOL 314/514. Cell Biology. 4 cr. Structure and function of cells and organelles, including membrane structure and transport; biogenetics of mitochondria and chloroplasts; cell motility; DNA replication; protein synthesis and transport; mitosis; meiosis; cytokinesis; laboratory techniques including gel electrophoresis; phase-contrast microscopy; spectrophotometry; respirometry; radioisotope analysis; cell culture; chromosome banding; bacterial DNA transformation. 3 hrs lec, 3 hrs lab per wk. Prereq: 130, 160; Chemistry 106 or 116.

- BIOL 317/517. Developmental Biology.** 4 cr. Early developmental and physiological components of animal and plant species; gametogenesis, cell-cell interactions, induction effects, cell migration and organogenesis; how these processes influence developmental patterns. 3 hrs lec, 3 hrs lab per wk. Prereq: 160, Chem 106 or 116.
- BIOL 318/518. Molecular Biology.** 3 cr. Study of gene structure, function and control at the molecular level. Molecular techniques used to analyze nucleic acid and protein activity and diversity. 3 hrs lec per wk. Prereq: 210; Chemistry 106 or 116; or cons instr.
- BIOL 319/519. Techniques in Molecular Biology.** 2 cr. Laboratory to apply molecular techniques to investigate a variety of biological questions. Techniques include cloning, DNA/protein fingerprinting, RFLP, blotting, PCR, and DNA sequencing. 5 hrs lab per wk. Prereq: 210; Chemistry 106 or 116; or cons instr.
- BIOL 320/520. Biological Techniques.** 4 cr. Prepare plant and animal tissues, organs, entire organisms for microscopic and macroscopic study. 2 hrs lec, 4 hrs lab per wk. Prereq: 101; or 130 and 160.
- BIOL 321. Biological Computing.** 3 cr. Use contemporary microcomputer software and operating systems for data handling and analysis in biology and natural resources projects. Database, spreadsheet, graphics, word processing, communication and data transfer.
- BIOL 322/522. Museum Methods.** 3 cr. Preparation, use, and care of natural history materials for research and exhibition; prepare educational programs for museums, nature centers, and schools; for teachers and those interested in museums or nature center professions. 6 hrs lab per wk. Prereq: Cons instr.
- BIOL 323/523. Paleontology Collecting Field Trip.** 3 cr. Two-week field course to collect plant and animal fossils. Lectures describe geology, paleoecology, and history of areas traveled. Special fee covers transportation, dig and camp fees. Prereq: Cons instr.
- BIOL 326/526. Electron Microscope Techniques.** 3 cr. Fixing, embedding, microtomy, and staining biological tissues for transmission and scanning electron microscopy; electron microscope use and basic photographic darkroom techniques. 1 hr lec, 6 hrs lab per wk. Prereq: 130, 160, Chemistry 106 or 116; and cons instr.
- BIOL 330/530. Plant Morphology.** 4 cr. Form and structure of plants and plant parts, both vegetative and reproductive. 3 hrs lec, 3 hrs lab per wk. Prereq: 101 or 130.
- BIOL 331/531. Plant Anatomy.** 4 cr. Internal structures of vascular plants, emphasizing development, function, and evolutionary history. 2 hrs lec, 4 hrs lab per week. Prereq: 101 or 130.
- BIOL 332/532. Paleobotany.** 3 cr. Survey fossil record of plants, emphasizing morphology (form and structure) and evolutionary trends in major plant groups; chronological successions and geographic distribution of past floras. 2 hrs lec, 2 hrs lab per wk. Prereq: 101 or 130.
- BIOL 333/533. General Microbiology.** 4 cr. Morphology, physiology, classification, and cultivation of bacteria and viruses, with introduction to microbial genetics, pathogenesis, and immunology. 2 hrs lec, 4 hrs lab per wk. Prereq: 101, 130, or 160; and Chemistry 106 or 116.
- BIOL 335/535. Mycology.** 4 cr. Taxonomy, morphology, physiology, and ecology of fungi; role of fungi in disease, industry, decomposition, food production, and biological research. 2 hrs lec, 4 hrs lab per wk. Prereq: 130 or cons instr.
- BIOL 337/537. Plant Pathology.** 3 cr. Causes, symptoms, spread, and control of plant diseases. 2 hrs lec, 3 hrs lab per wk. Prereq: 130.
- BIOL 338/538. Phycology.** 4 cr. Taxonomy, morphology, and ecology of algae with emphasis on local species. Field collections, small group experiments, lab analysis of field and cultured samples, and discussion of current algal research literature. 3 hrs lec, 3 hrs lab per wk. Prereq: 130, CNR or biology major or written cons instr.
- BIOL 339/539. Bryology and Lichenology.** 2 cr. Taxonomy, morphology, and ecology of bryophytes and lichens with emphasis on local species. 1 hr lec, 3 hrs lab per wk. Prereq: 101 or 130.
- BIOL 342/542. Vascular Plant Taxonomy.** 4 cr. Survey major groups with emphasis on identification, classification, and evolution of flowering plants. 2 hrs lec, 4 hrs lab per wk. Prereq: 101 or 130.
- BIOL 344/544. Trees and Shrubs.** 3 cr. Identify native and cultivated plants in summer and winter conditions; their use for landscaping and wildlife food; methods of vegetative propagation. 1 hr lec, 4 hrs lab per wk (some field trips). Prereq: 101 or 130.
- BIOL 345/545. Agrostology.** 2 cr. Structure, identification, classification, and evolution of grasses and grass-like plants. 1 hr lec, 2 hrs lab per wk. Prereq: 101 or 130.
- BIOL 346/546. Essentials of Horticulture.** 3 cr. Propagation, culture, improvement, and storage of flowers, fruits, ornamentals, and vegetables. 2 hrs lec, 2 hrs lab per wk. Prereq: 130.
- BIOL 347/547. Aquatic Vascular Plants.** 2 cr. Taxonomy and ecology of aquatic vascular plants with emphasis on local species of freshwater angiosperm. 1 hr lec, 3 hrs lab per wk. Prereq: 101 or 130.
- BIOL 350. Tree Physiology.** 3 cr. Mechanisms behind woody plant growth and function. Woody plant interactions with the biosphere, lithosphere, hydrosphere, and atmosphere. Applications of plant physiology to trees and forest systems. Prereq: 130 and Chemistry 101 or 105.
- BIOL 351/551. Plant Physiology.** 4 cr. Plant-soil-water relations, transport, mineral nutrition, plant biochemistry, and the environmental and hormonal control of plant growth and development. 3 hrs lec, 3 hrs lab per wk. Prereq: 130; Chemistry 106 or 116.
- BIOL 355/555. Plant Ecology.** 4 cr. Plant adaptations and responses to environmental variation; structure, microenvironments, and succession of plant communities. Prereq: 305 or cons instr.
- BIOL 357. Principles of Plant Community Distribution.** 1 cr. Ecological survey of world vegetation, relating community form and composition to prevailing climate, soils, and past environmental change. Prereq: 308 or 355 or con reg, or cons instr.
- BIOL 361/561. Aquatic Invertebrate Zoology.** 3 cr. Classification, structure, and life history of lotic and lentic freshwater invertebrates (exclusive of insects and parasites) with emphasis on Wisconsin species. 2 hrs lec, 2 hrs lab per wk. Prereq: 101 or 160.
- BIOL 362/562. Animal Parasitology.** 4 cr. Structure, classification, and life histories of animal parasites. 2 hrs lec, 4 hrs lab per wk. Prereq: 101 or 160.
- BIOL 370/570. Comparative Vertebrate Anatomy.** 4 cr. Structure and evolutionary relationships of vertebrates. 2 hrs lec, 4 hrs lab per wk. Prereq: 160.
- BIOL 372/572. Biology of the Vertebrates.** 1-4 cr. Classification, identification, and natural history of the vertebrates. Offered in 1-credit modules. (1) Reptiles/Amphibians, (2) Fish, (3) Birds, (4) Mammals. 1/2 hr lec, 1 hr lab per wk per module. May not earn credit in both the module and corresponding vertebrate course (374, 376, 377, 378).
- BIOL 373. Comparative Vertebrate Histology.** 4 cr. Microscopic structure and function of vertebrate (primarily mammalian) cells, tissues and organs. 2 hrs lec, 4 hrs lab per wk. Prereq: 160; (281, 285, 286 or 370 are recommended but not required).
- BIOL 374/574. Ichthyology.** 4 cr. Classification and natural history of fishes, with emphasis on Wisconsin food, game, and forage fishes. 2 hrs lec, 4 hrs lab per wk. Prereq: 101 or 160.
- BIOL 375/575. Fisheries Ecology.** 3 cr. Analysis of the interactions, ecology, life history, and origins of fish populations and communities. 2 hrs lec, 2 hrs lab per wk. Prereq: 160; 305 or con reg.
- BIOL 376/576. Herpetology.** 3 cr. Reptiles and amphibians; research methods and identification of species found in North America. 2 hrs lec, 3 hrs lab per wk. Prereq: 101 or 160.
- BIOL 377/577. Ornithology.** 3 cr. Avian taxonomy, morphology, life histories, ecology, research methods. Identify world bird orders and local species. 2 hrs lec, 3 hrs lab per wk. Prereq: 101 or 160.
- BIOL 378/578. Mammalogy.** 3 cr. Taxonomy, zoogeography, life history, ecology of mammals; field work. 2 hrs lec 2 hrs lab per wk.
- BIOL 379/579. Field Zoology.** 3 cr. Field trips to study, collect, prepare, and identify animals. 1 hr lec, 6 hrs lab per wk. If 309 is also taken, credit counts only with cons chair. Prereq: 101 or 160.
- BIOL 382/582. Endocrinology of Mammals.** 3 cr. Anatomy and physiology of major endocrine glands, primarily in mammals; hormonal control systems; biosynthesis, transport, and molecular actions of hormones; common endocrine diseases; current laboratory assay methods; current advances in hormone research. Guest lecturers. Prereq: 281 or 285; Chemistry 106 or 116; organic chemistry recommended.
- BIOL 383/583. Biology of Reproduction.** 3 cr. Survey of mammal reproduction with emphasis on human reproduction, including sexual development and behavior, fertilization, pregnancy, parturition (birth), lactation, natural and synthetic control of contraception and fertility. 3 hrs lec per wk. Prereq: 281 or 285; Chemistry 105; or cons instr.
- BIOL 388/588. Animal Behavior.** 3 cr. Comparative study of animal behavior; description, classification, analysis, and evolution of

behavioral patterns of vertebrates. Also social behavior and underlying mechanisms. 2 hrs lec, 3 hrs lab per wk; individual term project. Prereq: 160.

BIOL 399/599. Independent Studies. 1 or 2 cr. Upper division students may arrange for advanced work (including field and laboratory work where approp) not covered in regular courses. Categories include research; collection and identification of plants or animals; advanced readings; biological methods. Prereq: Cons approp faculty and chair.

BIOL 415/615. Advanced Microbiology. 3 cr. Biochemical cytology, physiology and genetics of microorganisms with research and applications. 2 hrs lec, 3 hrs lab per wk. Prereq: 333/533 or cons instr.

BIOL 490/690. Seminar. 1 cr. Studies and discussions of biological problems. Only one 490 credit counts toward the major.

BIOL 498/698. Selected Topics in Biology. 1-3 cr. Major concepts in an area of biology. Subtitle will designate area. Prereqs, lab and lec hrs will vary by topic. May repeat for credit with different subtitles. Biology 498 sections designated "seminar" can be used in place of 490 to satisfy seminar requirement.

BIOL 499. Biology Internship. 1-4 cr. Supervised training programs in biology coordinated by faculty with private or public agencies. 1 cr for 2-4 wks (40 hrs per wk) of work. Addl requirements set by instr. Credit set by internship committee. May repeat with different experience, but max 4 cr count for major. Prereq: Cons internship committee and instr.

BIOL 796. Independent Study. 1-3 cr. Planned reading to supplement preparation and mechanics of student specialty. May repeat as topic changes. Prereq: Cons instr.

BIOL 799. Thesis. 2-6 credits.

Biology Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

360/560 Invertebrate Zoology, 4 cr, (99-01)

367/567 General Entomology, 3 cr, (93-95)

381/581 Comparative Animal Physiology, 3 cr.

521 Computers in Biological Science, 3 cr.

790 Graduate Seminar, 1 cr, (87-89)

Courses in Biology Education

BIED 398. Student Teaching in Biology. Variable cr. Observation and teaching in secondary school classroom under guidance of cooperating teachers and university faculty in actual classroom situations. Prereq: Completion of DPI certified major/minor and DPI education requirements.

BIED 498. Intern Teaching. Variable cr. Structured field experiences in approved school programs. Interns are certified by the DPI and are employed under contract with schools to design, deliver, and assess instructional programs. Prereq: Completion of all methods courses and 75% of content courses in approp major. Con reg in approp section of Educ 400 may be required.

Courses in Marine Biology

The following courses are offered at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi. You may transfer the credits to UWSP. Contact the Biology Peer Assistance Center for more information or visit the GCRL Web site.

Marine Phycology, 4 cr. **Marine Invertebrate Zoology**, 6 cr. **Marine Ichthyology**, 6 cr. **Marine Science**, 5 cr. **Fauna and Faunistic Ecology of Tidal Marshes**, 4 cr. **Coastal Vegetation**, 3 cr. **Marine Ecology**, 5 cr. **Salt Marsh Plant Ecology**, 4 cr. **Marine Fisheries Management**, 4 cr. **Parasites of Marine Animals**, 6 cr. **Marine Microbiology**, 5 cr. **Marine Aquaculture**, 6 cr. **Comparative Histology of Marine Organisms**, 1-6 cr. **Special Problems in Marine Science**, 1-6 cr. **Special Topics in Marine Science**, 1-6 cr.

BIOTECHNOLOGY

See *Biology*.

BOTANY

See *Biology*.

BROADCASTING

See *Communication*.

BROAD-FIELD NATURAL SCIENCE

See *Natural Science*.

Business and Economics

(College of Letters and Science)

Gary Mullins, Chair of Division of Business and Economics

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Center for Economic Education

Room 469, Collins Classroom Center

Phone: 715-346-3874

Sally Trainer, Director

Peer Advising Center

Room 304B, Collins Classroom Center

Phone: 715-346-3391

The Division of Business and Economics offers programs in (1) business administration, (2) economics, and (3) managerial accounting.

Faculty members of the division participate in research related to their areas of academic interest. In addition, each member is involved in professional development activities through active memberships in professional societies and associations and community agencies.

To further enhance your career preparation when you major or minor in business administration, economics or managerial accounting, we encourage you to expand your classroom work through active participation in student and professional clubs, societies, associations, and volunteer work related to your area of study. We also encourage business administration majors, and others with permission, to participate in internships for experience in actual business environments.

The Division of Business and Economics will make every effort to notify current and prospective majors of new program standards. The technique of notification will depend on the nature of the program change and may include e-mail, Web pages, orientation sessions, the department advising office, faculty advisers, the catalog, and letters to students.

Abbreviations:

Bus = Business

CIS = Computer Information Systems

Econ = Economics

Math = Mathematics

Acct = Accounting

BUSINESS ADMINISTRATION

Faculty: K Bahr, D Gillo, J Haine, CR Marshall, E Martin, M Meyers, B Mihm, G Mullins, J Poutinen.

Business Administration Major

Consists of 46 credits in the following categories:

- Business foundation**, 22 credits: Acct 210, 211 (211 may be waived if you are a dual business administration/managerial accounting major); Bus 380; Econ 210, 211; Math 109 or 111 or 120 or equivalent; 3 credits of statistics from any department. You must complete these courses before taking any additional 300-400 level courses.

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- Business core**, 15 credits: Bus 330, 340, 350, 360, 370.
- Business electives**, ANY 6 credits in 300-400 level courses not including Bus 490, 497, 498, 499. We recommend that you take multiple courses in one interest area to develop higher levels of expertise.
- Business capstone course**, 3 credits: Bus 480 or 438. must take this final business administration course during your final semester. You need instructor approval to register for the capstone course and you may take only one core business course in conjunction with 480.
- Outside minor, or outside major, or area of concentration:** In addition to taking the required courses for the business administration major, you must complete ONE of the following: (1), outside minor, (2) second major, (3) area of concentration (of not less than 18 credits that have been approved by the Division of Business and Economics). Note: you MAY include the economics major and minor and the managerial accounting major and minor, but NOT the business administration minor for this requirement. Following are approved areas of concentration:
 - Forest Recreation:** Forestry 330, 334, 335, 394; Natural Resources 484. Plus 6-9 credits from Forestry 381, 385; Natural Resources 382, 383, 474, 475; Water 180.
 - Soil Science:** Soils 364, 365, 461; Natural Resources 251, 373; and at least 2 credits from Soils 362, 465, 493, Natural Resources 335, 336, 337, 380, 476, and other related courses approved by the associate dean of the College of Natural Resources.
 - Foreign Language:** The area of concentration in a foreign language is designed to provide a cross-cultural experience for students planning to work in international or multicultural environments. The area of concentration emphasizes practical language skills and knowledge of appropriate cultural forms and behavior.
 - French**, 20 credits: French 211-212, 313, 314, 318, and 317 or 340.
 - German**, 20 credits: German 211-212, 313, 314, 318, and 317 or 340.
 - Spanish**, 20 credits: Spanish 211-212, 313, 314, 318, and 317 or 340.
 - Wood Products Industry**, 18 credits:
 - At least 8 credits from Forestry 370, 428, 429 (at least 6 cr), 499; Bus 496, 497, 498, 499 (forest products subtitle).
 - At least 5 credits from Forestry 232, 322, 335, 381; Natural Resources 150, 151, 320, 330, 357, 490; Paper Science 101.
 - Three credits from Bus 336, 341, 381, 384; Econ 342.

Business Administration Minor

Consists of 24 credits:

- Required: Acct 210; Econ 210; Bus 380.
- Electives: A minimum of 15 credits in business administration courses at the 300-400 level not including Bus 497, 498, 499.

Collaborative Degree Program with Business Administration Major

University of Wisconsin Colleges in Wausau, Marshfield, and Marinette and the Nicolet Technical College have joined with UW-Stevens Point to offer a bachelor's degree

with majors in business administration or general studies. Students can attend evening classes on any of the participating campuses. A combination of distance learning technologies and face-to-face instruction is used to offer upper level courses. You must have accumulated 30 freshman and sophomore credits at an accredited college or university to enter the program. For more information call the collaborative degree adviser, 715-346-2384.

Academic Standards for Business

To graduate with a major or minor in business administration, you must have successfully completed all required courses in the major or minor. You must have a 2.5 cumulative grade point average in all major and minor required courses, including transfer courses, regardless of any declaration of academic bankruptcy. You can repeat no more than one course of D or D+ for credit in the major or minor. If you earned an F, see the policy on repeating courses in the **More Academic Information** section of this catalog. However, no more than two courses of F can be repeated for credit in the major or minor. Courses taken pass/fail will not count toward the major or minor.

Courses in business administration are open to all students who meet the prerequisites.

ECONOMICS

Faculty: D Christie, R Cray, J Davis, T Hofer, D Palmini, HS Wallace, L Weiser (emeritus).

Economics Major

Consists of a minimum of 38 credits of economics courses.

- Required core**, 23 credits.
 - Theoretical and institutional**, 15 credits: Econ 210, 211, 350, 360, 361.
 - Quantitative**, 8 credits: Math 355 or an equivalent statistics course and Math 109 or 111 or 120.
- Electives:** 15 credits in additional economics courses, not including Econ 100.

We advise economics majors to take the following courses as additional electives: Acct 210, 211; CIS 101, 102; History 371, or 383.

If you plan to pursue graduate work in economics, we advise you to take Math 120 and 121 in place of 109.

Teacher Certification: If you seek teacher certification in economics, a minimum of 34 credits must be in courses designated "Economics." History 211 and 212 are recommended as electives or in partial fulfillment of the general degree requirements. An additional legislative requirement is Natural Resources 370.

Enrollment caps are in effect for those seeking teacher certification. Please contact the School of Education early for entrance requirements and application procedures. Also see information about the Professional Education Program and the secondary education curriculum for teacher certification in the **Education** section of this catalog.

Economics Minor

Consists of 22 credits.

- Required core**, 10 credits: Econ 210, 211, Math 355 or equivalent statistics course.
- Electives:** 12 credits of additional economics courses, not including Econ 100.
- Minor for teacher certification:** Consists of at least 24 credits. Take five courses in addition to those in the required core above. Also, History 211 and 212 are

recommended as electives or in partial fulfillment of the general degree requirements.

Academic Standards for Economics

To graduate with a major or minor in economics, you must have a 2.25 cumulative grade point average (2.75 to student teach), in all major/minor required courses, including transfer courses, regardless of any declaration of academic bankruptcy. You may repeat no more than one course of D or D+ for credit in the major or minor. If you earned an F, see the **More Academic Information** section of this catalog.

Courses in economics are open to all students who meet the prerequisites.

Test-out and Credit-by-Exam Policy

You may earn credit-by-exam for Econ 210 and 211 through the appropriate CLEP examination. You must register and pay fees for CLEP exams through the UWSP Testing Service. To receive credit you must score in the 50th percentile or higher on the appropriate exam.

For all other general degree requirement courses in the Division of Business and Economics you may test-out, but not receive course credit. After you confer with the chair, a faculty member who teaches the course will prepare a comprehensive exam and inform you of the criteria for passing before you take the exam. A passing grade is at least five percent above the most recent class average. You may take a test-out exam only once. You are not eligible for test-out if you are currently enrolled in the course.

MANAGERIAL ACCOUNTING

Faculty: V Gruetzmacher, W Love, W Maas, J McKnight.

Professional Certifications

We encourage students majoring in managerial accounting to pursue professional certification such as: Certified Management Accountant (CMA), Certified Internal Auditor (CIA), and/or Certified Public Accountant (CPA). You achieve these professional certifications by applying to the appropriate professional organization or state office for admission to a national examination, passing the exam (that you may take during the final semester of coursework), and achieving professionally related experience. The certifications are granted by the related professional organizations, not by UWSP. Contact any accounting faculty member for more information.

The courses required for the managerial accounting major prepare you to sit for the CMA exam, that is administered by the Institute of Management Accountants and the CIA exam, administered by the Institute of Internal Auditors.

If you wish to sit for the CPA examination in Wisconsin, you must have completed 150 semester hours of coursework. To do this, complete one of these:

1. A master's degree program at an accredited university.
2. An additional major at UWSP.
3. Thirty credits of additional arts and science courses at UWSP selected to enhance your career preparation.

Managerial Accounting Major

Consists of 67 credits in the following categories:

1. **Required lower division courses, 14 credits:** Acct 210; CIS 102 (spreadsheet); Econ 210, 211; Math 111 or 120.
2. **Required basic core, 16 credits:** Bus 340, 350, 360, 380; Math 355 or an equivalent statistics course.

3. **Required accounting, 31 credits:** Acct 310, 311, 312, 320, 321, 330 or 331, 350, 370, 400, 411, 412.
4. **Controlled electives, 6 credits:** two courses from Acct 331 (if not used as a required course), 390, 490; Bus 341, 352, 353.

Accounting Minor

Consists of 24 credits:

1. **Required core, 18 credits:** Acct 210, 211 or 320, 310; Econ 210; Bus 340, 350.
2. **Electives, 6 credits:** Additional accounting courses from 300-389.

Academic Standards for Managerial Accounting

To graduate with a major in managerial accounting or minor in accounting, you must have a 2.5 cumulative grade point average in all major required courses, including transfer courses, regardless of any declaration of academic bankruptcy. You can repeat no more than one course of D or D for credit in the major. If you earned an F, see the **More Academic Information** section of this catalog.

Courses in accounting are open to all students who meet the prerequisites.

Courses in Accounting

ACCT 210. Introductory Financial Accounting. 3 cr. Principles, concepts, and procedures of financial accounting essential to the preparation, understanding, and interpretation of accounting information. Prereq: So st.

ACCT 211. Introductory Managerial Accounting. 3 cr. Decision-making process using managerial accounting information; cost-volume-profit analysis, cost accounting systems, budgeting, and performance evaluations. May not earn credit in both 211 and 320. Prereq: 210 or cons instr.

ACCT 290. Special Topics in Accounting. Variable cr. Subtitle will designate topic.

ACCT 299. Special Work. Underclass students may arrange for independent study with consent of division head. Credit based on scope of project.

ACCT 310. Intermediate Financial Accounting I. 3 cr. Concepts, elements, and generally accepted accounting principles associated with financial statements, including income measurement and valuation of assets and equities. Prereq: 210.

ACCT 311. Intermediate Financial Accounting II. 3 cr. Continued study of concepts and principles underlying financial statements, including leases, pensions, income tax allocations, earnings per share and changes in accounting principle application. Prereq: 310.

ACCT 312. Advanced Financial Accounting. 3 cr. Financial accounting for governmental and other not-for-profit entities, mergers and parent-subsidiary relationships, foreign currency denominated investments, SEC reporting, and partnerships. Prereq: 311.

ACCT 320. Managerial Accounting. 3 cr. Concepts and objectives of managerial accounting; cost accumulation and allocation procedures for job order costing, process costing, and activity based costing; planning and control of materials, labor, and factory overhead; application of managerial decision-making tools. May not earn credit in both 211 and 320. Prereq: 210, Math 111 or equiv, CIS 102.

ACCT 321. Advanced Managerial Accounting. 3 cr. Planning, control and analysis of production and marketing costs through budgeting and standard cost accounting techniques, including variance analysis and inventory management; revenue and cost allocations; strategic planning and the balanced scorecard. Prereq: 211 or 320.

ACCT 330. Federal Individual Income Taxes. 3 cr. Examine Federal Income Tax Law as it applies to individuals. Includes general concepts, tax return preparation and tax research methods. Prereq: 310.

ACCT 331. Federal Business Income Taxes. 3 cr. Examine Federal Income Tax Law as it applies to C corporations, S corporations, limited liability companies, partnerships and fiduciaries. Includes general concepts, tax return preparation, tax research methods. Prereq: 310.

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ACCT 350. Auditing. 3 cr. Critical examination of evidence supporting financial statements, internal control, working papers, statistical sampling, nonfinancial attestation services, audit reports, and professional standards. Prereq: 311, Math 355.

ACCT 370. Accounting Information Systems. 3 cr. Accounting software, data management, electronic commerce, controlling information, systems security and auditability, and selected microcomputer skills for the accounting environment. May not earn credit in both 370 and Bus 370. Prereq: 310.

ACCT 390. Ethics in Accounting and Business. 3 cr. Principles of ethics and professional responsibility applied to specific workplace situations and business activities. Explore interplay between corporate culture, professional codes of conduct and individual behavior. Develop, clarify, communicate and defend positions on corporate conduct. May not earn credit in both ACCT 390 and BUS 390.

ACCT 400. The Accounting Profession. 1 cr. History and development of the accounting profession; professional employment, conduct, organizations, ethics, mores, and publications. Prereq: Cons instr.

ACCT 411. CMA Review I. 3 cr. Preparation for Parts 1 and 4 of the Certified Management Accountant exam. Part 1: economics, finance, management. Part 4: decision analysis, information systems. Prereq: Sr st; Econ 210, 211; Bus 350, 380 (360 recommended); Math 111 or 120, 355 or other statistics course; Acct 370.

ACCT 412. CMA Review II. 3 cr. Preparation for Parts 2 and 3 of Certified Management Accountant exam. Part 2: financial accounting and reporting. Part 3: management reporting, analysis, behavioral issues. Prereq: Sr st; Acct 310, 311, 312, 320, 321; Bus 380; and enrolled in Acct 350.

ACCT 490. Special Topics in Accounting. Cr arranged. Subtitle will designate topic.

ACCT 497. Internship in Accounting. Cr arranged. Supervised training work program in a cooperating agency or business. Credit set by chair and acct faculty member. Prereq: Cons chair.

ACCT 498. International Internship. 1-12 cr. Supervised training work program in an international agency or business located outside the United States. Credit set by chair and acct faculty. Prereq: Cons chair.

ACCT 499/699. Special Work. Upperclass or graduate students may arrange for independent study with cons chair. Credit based on scope of project. Prereq: Cons chair.

Accounting Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

220 Lotus 1-2-3 Practicum, 1 cr.

340 Fund Accounting, 3 cr, (89-91)

Courses in Business

BUS 299. Special Work. Underclass students may arrange for independent study with cons chair. Credit based on scope of project.

BUS 330. Principles of Marketing. 3 cr. Study marketing theories and concepts used in application of marketing strategies in product development, distribution, pricing, and promotion of goods and services.

BUS 331. Marketing Research. 3 cr. Objectives and methods of acquiring data to make intelligent marketing decisions; research planning, sampling, collection methods; data analysis, interpretation, and application. Prereq: 330.

BUS 335. Retailing. 3 cr. Analysis of retail industry market structure. Emphasis on development and implementation of strategies. Introduction to management activities of inventory procurement, channel relationships, support services, operations, promotional activities and vendor relationships. Store layout, pricing structures, store image, and online retailing. Prereq: 330, Accounting 210.

BUS 336. Sales Management. 3 cr. The sales force and its role in the execution of marketing strategy in planning, organizing, and controlling the sales function. Prereq: 330.

BUS 337. Buyer Behavior. 3 cr. Concepts from psychology, sociology, anthropology, and other behavioral disciplines, analyzed to develop ability to understand and predict reactions of individuals and groups to marketing decisions. Prereq: 330.

BUS 338. Marketing Management. 3 cr. Role of marketing manager in business, with emphasis on decision-making and problem-solving activities. Prereq: 330.

BUS 339. International Marketing. 3 cr. International differences in applying marketing concepts to culture, business customs, political and legal environments, trade mechanics, and market behavior when developing marketing strategies; world trade practices. Prereq: 330.

BUS 340. Business Law I. 3 cr. History of legal development, contracts, agency, sale of goods, insurance.

BUS 341. Business Law II. 3 cr. Commercial paper, real estate and personal property, partnerships, corporations, bankruptcy. Prereq: 340 or cons instr.

BUS 343. Principles of Insurance. 3 cr. For the nonspecialist. History of insurance, basic definitions/terminology, fields of insurance, types of carriers, insurance contract, planning and purchase of insurance.

BUS 350. Principles of Finance. 3 cr. Business units, especially corporate, in present day enterprise; financial principles applicable to their operation. Prereq: Acct 210; approved major/minor, or cons instr.

BUS 352. Financial Management. 3 cr. Major aspects of financial decision-making, primarily using the case method; profit planning, financial budgeting, investment decisions, cost of capital, valuation, and management of circulating capital. Prereq: 350.

BUS 353. Investments. 3 cr. Construct and manage investment portfolios to meet needs of personal and institutional investors; select of securities to balance income, risk, and capital growth. Prereq: 350.

BUS 360. Principles of Production-Operations Management. 3 cr. Use qualitative management science techniques such as facility layout, process planning, work measurement, inventory control, scheduling, quality control, forecasting, linear programming (LP), just in time (JIT), and statistical process control (SPC) to solve operational problems. Prereq: 380; 3 cr in statistics; Math 109 or equiv.

BUS 370. Management Information Systems. 3 cr. The MIS concept: systems theory of management and organizations; viewing the firm as a system; the systems (analytical) approach to systems; functional (marketing, manufacturing, finance) information systems; planning, designing, implementing and controlling information systems. May not earn credit in both Bus 370 and Acct 370.

BUS 380. Principles of Management. 3 cr. Theory of management. Explore different ways managers function in profit as well as not-for-profit business and industry organizations. Examine management behaviors from functional and organizational perspectives. Use current and library resources. Study language and philosophy of historical development and psychology of management.

BUS 381. Entrepreneurship. 3 cr. Entrepreneurship and intrapreneurship as integral components of management activity; risk taking, decision making, marketing, finance, personnel selection, record keeping, taxes, and controls unique to the entrepreneurial-type organization and the entrepreneur-manager. Prereq: 380 or cons instr.

BUS 384. Personnel/Human Resource Management. 3 cr. Integrate daily operational activities of personnel management, such as job analysis, training, recruiting, and performance appraisal with the long-term strategic perspective of identifying and analyzing human resource issues and trends that may affect the organization and how it is managed. Includes maternity/paternity leave, lack of unskilled workers, increase in number of dual career families, provision for individuals with disabilities. Prereq: 380 or cons instr.

BUS 385. Organizational Behavior. 3 cr. Behavioral approach to management concentrating on the individual in the work place in dealing with power, authority, rules, status, norms, leadership, motivation, communication, group processes and conflict management. Prereq: 380.

BUS 386. Organizational Theory. 3 cr. Use an open system perspective to examine how managers deal with factors that affect the organization. Factors such as environment, technology, and goals should be considered by managers in determining the nature and structure of the organization. Prereq: 380.

BUS 390. Ethics in Business. 3 cr. Principles of ethics and professional responsibility applied to specific workplace situations and business activities. Explore interplay between corporate culture, professional codes of conduct, and individual behavior. Develop, clarify, communicate, and defend positions on corporate conduct. May not earn credit in both ACCT 390 and BUS 390.

BUS 391. Small Business Management Consulting Practicum. 3 cr. Research and analysis for small business operations. Work in teams with an area business on a particular management concern in the form of a business case; make written and oral presentations to the business client. Prereq: Cons instr.

BUS 480. Strategic Management. 3 cr. Advanced course in business administration using the case method to develop integrative problem-solving approaches to complex management problems. Prereq: Graduating busn admin major or cons instr.

BUS 490. Special Topics in Business Administration. Cr arranged. Subtitle will designate topic.

BUS 496. Internship in Business Administration. 1-3 cr. Supervised training work program in a cooperating agency or business. Credit determined by intern director and busn faculty. Max 3 cr apply to major. Prereq: Cons intern director.

BUS 497. Internship in Business Administration. 1-6 cr. Supervised training work program in a cooperating agency or business. Credit determined by intern director and busn faculty. Does NOT apply to major or minor. Prereq: Cons intern director.

BUS 498. International Internship in Business Administration. 1-6 cr. Supervised training work program in a cooperating agency or business. Credit determined by intern director and busn faculty. Does NOT apply to major or minor. Prereq: Cons intern director.

BUS 499/699. Special Work. Upperclass or graduate students may arrange for independent study with cons chair. Credit based on scope of project. Prereq: Cons chair.

BusinessLatent Course: Not offered recently. Full description in (xx-xx) catalog.
438 Marketing Strategies, 3 cr, (01-03)

Courses in Economics

ECON 100. Introduction to Economics. 3 cr. Survey economic concepts and contemporary economic issues. The role of business, households, and government. Analysis of demand and supply, income distribution, unemployment, inflation, and business cycles. May not substitute 100 for Econ 210 or 211 to satisfy business administration, economics, and managerial accounting major or minor requirements.

ECON 210. Principles of Macroeconomics. 3 cr. Concepts of scarcity and cost; supply and demand; government in the economy; organization and functions of businesses and cooperatives; measurement and determination of national income; unemployment and inflation; money, banking, and financial markets; international trade and finance. Prereq: So st, and Math 100 or equiv. GDR:SS1

ECON 211. Principles of Microeconomics. 3 cr. Theory of producer and consumer behavior; pricing and output in competitive vs. monopoly markets; pricing and employment of labor and other resources; problems of government intervention in markets. Prereq: 210. GDR:SS1

ECON 272. Personal Finance. 3 cr. Economics for the consumer, the art of consumer decision making, issues affecting consumer spending, saving, and investing; the role of cooperatives and other institutions concerned with consumer welfare. May not earn credit in both 272 and Human Development 372.

ECON 299. Special Work. Premajors in economics may arrange for independent study with cons chair. Credit based on scope of project.

ECON 311. Public Finance. 3 cr. Impact of federal, state, and local budgets on the economy; analysis of government expenditures and taxation. Prereq: 211.

ECON 315. Business and Government. 3 cr. Role of government regulation vs. free markets. How government regulates business activity: anti-trust, economic regulations, social regulations, developing regulatory activities. Economic impacts of government regulations. Prereq: 211.

ECON 328. Poverty, Welfare, Social Insurance. 3 cr. Poverty in the United States; income maintenance programs including social security, unemployment insurance, worker's compensation, pension plans, and social assistance; health insurance. Prereq: 210 or cons instr. May not earn credit in both Econ 328 and Sociology 328.

ECON 342. Environmental Economics. 3 cr. Economic dimensions of domestic and international environmental problems. How definitions of property rights and national and regional economic growth cause environmental problems. Problems of pollution and endangered species. Impacts of environmental and resource development policies on efficiency, effectiveness, distribution of costs and benefits, economic growth. Prereq: 211 or Natural Resources 372.

ECON 345. Labor Problems. 3 cr. Employer-employee relationships; characteristics of labor markets; types of labor organizations and employer organizations; industrial disputes and devices for effecting settlements, collective bargaining and labor legislation.

ECON 346. Collective Bargaining. 3 cr. Organizing and negotiating, content of collective bargaining, bargaining in public and private employment, laws of collective bargaining. Prereq: 345 or cons instr.

ECON 350. Microeconomic Theory. 3 cr. Analytical tools for understanding demand, production and cost, impact of market structure on firms' behavior, pricing of resources, and economic welfare. Analysis of public policies. Prereq: 211.

ECON 360. Money and Financial Markets. 3 cr. Depository institutions; central banking and money creation; price level analysis; interest level determination; interest rate theory; money and capital markets. Prereq: 210 and Acct 210.

ECON 361. Macroeconomic Theory. 3 cr. Determination of levels of national income, output, employment, and prices; national income accounting; theory and measurement of aggregate consumption and investment; government stabilization policy. Prereq: 211.

ECON 362. Economic Development. 3 cr. The stages of economic growth; study of economic conditions and policy in underdeveloped and intermediately developed national economies. Prereq: 211.

ECON 365. International Economics. 3 cr. Foreign trade, theory and measurement of export and import patterns; foreign exchange markets, balance of payments, tariffs, and the contemporary international monetary system. Prereq: 211; or Natural Resources 372 for international resource management minors.

ECON 367. Comparative Economic Systems. 3 cr. Analysis and appraisal of the structure and function of diverse economic systems, such as capitalism, socialism, communism, and their modifications. Prereq: 210.

ECON 370. Managerial Economics. 3 cr. Economic analysis for business decision making. Demand, elasticity and profitable pricing, cost and output decisions, statistical analysis of demand and cost, forecasting markets, long-run vs. short-run profit analysis. Prereq: 211, 310, Math 109.

ECON 374. Regional Economic Growth. 3 cr. Factors that promote and/or hinder regional economic and business growth. Geographical distribution of resources and spatial ordering of industrial and commercial activities. Patterns of trade among regional and urban areas; regional business cycles. Patterns of land use and values in regions and urban areas. Prereq: 211.

ECON 420. Economics of Organization. 3 cr. Apply microeconomic and game theoretic principles in analyzing business institutions and practices. Examine economic theories of the firm and alternative contractual relationships. Vertical integration (make-or-buy decision), corporate ownership, the multiproduct firm, relational contracting, franchising. Evaluate economic theories by performing economic experiments. Prereq: 211 and cons instr.

ECON 460. Economics and Management of Technological Change. 3 cr. Read, present papers and discuss history of technological change, economic and social determinants of the direction and rate of change, effects of change on economic structure and growth, and on the behavior of firms. Also, problems related to technology faced by policy makers and firm managers. Prereq: 211 and 2nd sem jr or sr st.

ECON 490. Special Topics in Economics. Cr arranged. Subtitle will designate topic.

ECON 497. Internship in Economics. Cr arranged. Supervised training work program in a cooperating agency or business. Credit set by chair and economics faculty member. Prereq: Cons chair.

ECON 498. International Internship. 1-12 cr. Supervised training work program in an international agency or business located outside the U.S. Credit set by chair and econ faculty. Prereq: Cons chair.

ECON 499/699. Special Work. Upperclass or graduate students may arrange for independent study with cons chair. Credit based on scope of the project. Prereq: Cons chair.

ECON 717. Economic Education for Elementary and Secondary Teachers. 3 cr. Introduction to basic economic principles and issues; identify resources for economic instruction at elementary and secondary levels; design lessons and activities for integrating economic education across the curriculum; open to experienced, certified teachers. May not earn credit in both Econ 717 and Education 717.

ECON 725. Economics and Environmental Issues. 1 cr. Role of economics principles in analysis of environmental issues; competitive markets, externalities, environmental regulations, economic incentives, pollution reduction, energy efficiency, waste disposal, population change, and economic development; teaching strategies and instructional materials to integrate economics and environmental education. Prereq: Certified elementary and secondary teachers only.

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ECON 756. Current Economic Problems: Subtitle. 3 cr. Nature and causes of selected economic problems; evaluation of policy responses with respect to accepted social goals and values. Subtitle will designate topic. May repeat for credit under different subtitles.

Economics Latent Courses: Not offered recently. See (xx-xx) catalog.

- 440 Monetary and Credit Policies, 3 cr, (95-97)
- 454 Applied Economics, 3 cr, (89-91)
- 481 History of Economic Thought, 3 cr, (95-97)
- 495 Senior Honors Thesis, 3 cr, (01-03)
- 515 Business and Government, 3 cr
- 756 Current Economic Problems, 3 cr, (91-93)

CAMP AND YOUTH PROGRAMMING

See *Natural Resources-Human Dimensions in Natural Resource Management*.

CAPTIVE WILDLIFE

See *Natural Resources - Wildlife*.

CARTOGRAPHY

See *Geography*.

CHEMICAL ENGINEERING

See *Chemistry* and/or *Paper Science*.

Chemistry

(College of Letters and Science)

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Definition: Chemistry is an experimental science that involves the study of matter, the chemical and physical changes that matter undergoes, and the energy changes that accompany these phenomena.

CHEMISTRY MAJORS

You may earn a chemistry major in four ways. Each starts with the following core of chemistry and collateral courses.

Chemistry Core/Collateral Courses

Core: Chem 115 and 116 (see note 1), 248, 325, 326, 328, 335, 336, 338, 395, 496.

Collateral courses: Math 120, 121, 222; Physics 150, 250.

Complete ONE of the following majors.

Chemistry Major

Consists of a minimum of 58 credits:

1. Chemistry core and collateral courses (above).
2. At least 7 credits from Chem 329L, 339L, 346L, 365L, 371, 373, 387, 425, 435, 445L, 455, 458L, 468L including one course with laboratory (L) work.

Chemistry Major for Professional Certification by the American Chemical Society

Consists of a minimum of 68 credits:

1. Chemistry core and collateral courses (above).
2. Chem 329, 339, 346, 365, 455.
3. At least 3 credits from Chem 371, 373, 387, 425, 435, 445, 458, 499. You may substitute one advanced

course in another science for one chemistry course in this group with approval of the chair.

4. Recommended: Reading knowledge of a foreign language.

Chemistry Major with Polymer Option

Consists of a minimum of 61 credits:

1. Chemistry core and collateral courses (above).
2. Polymer courses: Chem 371, 373, 474, 478.
3. At least 3 credits from Chem 329, 339, 346, 365, 387, 425, 435, 445, 455, 458, 468.

Chemistry Major with Polymer Option for Professional Certification by the American Chemical Society

Consists of 74 credits:

1. Chemistry core and collateral courses (above).
2. Chem 329, 339, 346, 365, 455.
3. Polymer courses: Chem 371, 373, 474, 478, and 2 credits of 499.
4. Recommended: Reading knowledge of a foreign language.

Chemistry Major for Teacher Certification

1. Consists of any of the majors described above.
2. Enrollment caps are in effect for those seeking teacher certification. Please contact the Chemistry Department early for entrance requirements and application procedures. Also see information about the Professional Education Program and the secondary education curriculum for teacher certification in the **Education** section of this catalog.

Chemistry Minor

Consists of at least 24 credits. Take ONE of the following course sequences:

1. No more than 10 credits of 100 level chemistry courses; Chem 248, 325, 326, 328; and a minimum of 4 addl credits selected from Chem 329, 330, 335, 338, 340, 365, 395. You may substitute Water/Geology 487 and Water 492 together for Chem 340.
2. Maximum 10 credits of 100 level chemistry courses; and Chem 220, 248, 260, and either 330 or 340.

The objective of a minor in chemistry is to provide you with a knowledge of introductory and intermediate chemical principles and to have you acquire sufficient technical skills to perform capably in a modern chemical laboratory.

Notes:

1. For chemistry majors the normal prerequisite for Chem 325 is Chem 115 and 116. With the consent of the department chair, you may substitute Chem 105 and 106 for 115 and 116.
2. Several of the chemistry courses listed below are designed as service courses or for nonchemistry majors. They do not count toward the chemistry major. In the case of such courses numbered 300 and over, the course description includes this restriction.
3. a. You can replace a grade of F in a 100-level chemistry course with a subsequent grade in another 100-level chemistry course if you have the consent of the department chair. (See the **More Academic Information** section of this catalog for the policy on repeating courses.)
b. In special cases you can replace a D in Chem 115 with a subsequent grade in 105 if you first get authorization from the department chair.
4. You cannot receive credit toward graduation for a course after you have already completed a more advanced or similar course in the same area. The following restrictions hold:

If you have received credit for	you cannot receive credit for
100	101
101	100
105	100, 101
115	100, 101, 105, 106
325	220
346	340
365	260
445	340

- If your program requires one year of introductory chemistry with laboratory, you should take Chem 114 concurrently with 115.
- If you are taking Chem 105 and plan to continue on with 106, you should take Math 100 concurrently with Chem 105 if you have not already completed that math course or higher.

Prechemical Engineering

Take the following science and mathematics courses in your freshman and sophomore years: Chem 114, 115, 116 (or 105 and 106), 248, 325, 326, 328; Math 120, 121, 222; Physics 150, 250. Specific chemical engineering curricula and universities have individual requirements. See a prechemical engineering adviser for additional requirements and suggested electives. For recommended courses in other pre-engineering programs, see the listing under **Physics** later in this catalog.

Prepharmacy

Take the following courses during your freshman and sophomore years: Chem 114, 115, 116 (or 105 and 106), 325, 326, and 328; Math 120; Physics 203 and 204. For additional requirements and suggested electives, see a prepharmacy adviser.

Academic Standards

- If you wish to major or minor in chemistry, you must apply for acceptance into the major or minor through the Department of Chemistry office no later than the first semester of your junior year.
- To be accepted as a major, you can have no more than one grade below C- in any chemistry, mathematics, or physics courses numbered below 299 required in the chemistry major.
- To be accepted as a minor, you can have no more than one grade below C- in any chemistry course.
- To be approved for graduation with a chemistry major, you must:
 - Have a minimum grade point average of 2.00 (2.75 for student teaching) in all chemistry courses and required collateral courses.
 - Have no more than one grade below C- in any chemistry, mathematics, or physics courses numbered below 299 required in the chemistry major.
 - Apply no more than one grade below C (C- is a grade below C) in chemistry courses numbered 300 or above to the major.
- To be approved as a chemistry minor, you must have a minimum grade point average of 2.00 (2.75 to student teach) in all chemistry courses.
- These requirements apply for majors and minors regardless of a declaration of academic bankruptcy. You may petition the department for consideration if you do not meet these standards.
- If you are a transfer student, the grades you earned at another campus are not included in these require-

ments nor in your GPA calculation. However, all grades are counted if you apply for teacher certification.

- See Notes 1-5 above for additional information concerning prerequisites and repeating courses.

Test-Out and Credit-by-Exam Policy

The Department of Chemistry offers test-out opportunities for Chem 100, 101, 105, 106, 115 and/or 116. The test-out exams are handled by the Chemistry Curricular Affairs Committee. The exams are written and cover lecture and laboratory topics. You will be notified of the required passing score before you take an exam. You may take a test-out exam only once.

You will receive credit for testing out of 105, 106, 115 and/or 116. For 100 and 101 you will not receive credit but will be granted a waiver of the corresponding general degree requirement science credits.

Courses in Chemistry

CHEM 100. Appreciation of Chemistry. 3 cr. Selected principles of chemistry. Relationship between chemistry and modern society. 2 hrs lec, 2 hrs lab per wk. (I, II) GDR:NS

CHEM 101. Basic Chemistry. 5 cr. (One semester survey). Introduction to atomic and molecular structure, bonding, stoichiometry, descriptive chemistry of both inorganic and organic compounds, selected topics in environmental and consumer chemistry. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. (See notes 3 and 4.) (I, II) GDR:NS

CHEM 105. Fundamental Chemistry. 5 cr. (Two semester basic course) Fundamental principles and theories of chemistry, including stoichiometry, atomic and molecular structure and bonding, nuclear chemistry, thermodynamics, descriptive chemistry of nonmetals and transition metals, chemical kinetics and equilibria, introduction to organic chemistry. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. Prereq: Math 90 or placement in 100 or above. (See notes 1,3,4,6.) (I, II) GDR:NS

CHEM 106. Fundamental Chemistry. 5 cr. Continuation of 105. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. Prereq: 105, Math 100 or higher. (See notes 1 and 4.) (I, II) GDR:NS

CHEM 114. General Chemistry Laboratory. 1 cr. Introductory lab work for Chem 115 students with little or no lab experience. 3 hrs lab per wk. Prereq: Con reg in 115. (See note 5.) (I, II) GDR:NS.

CHEM 115. General and Quantitative Chemistry. 4 cr. (Two semester course for majors/minors) Laws and principles of chemistry including atomic and molecular structure, stoichiometry, chemical equilibria, electrochemistry, thermodynamics, chemical kinetics, inorganic and nuclear chemistry. 3 hrs lec, 1 hr disc per wk. Prereq: One yr high school chemistry with grade of C or better; Math 118 or con reg or cons chemistry chair; or placement in 119 or higher. (See notes 1, 3, 4, and 5.) (I, II) GDR:NS

CHEM 116. General Quantitative Chemistry. 5 cr. Continuation of 115. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. Prereq: 115. (See note 1.) (I, II) GDR:NS

CHEM 220. Survey of Organic Chemistry. 4 cr. Systematic one semester survey of the compounds of carbon. 3 hrs lec, 3 hrs lab per wk. Does not count toward any chemistry major. Prereq: 106 or 116. (See note 4.) (I, II)

CHEM 248. Quantitative Analysis. 3 cr. Theory and methods of quantitative chemical analysis. 1 hr lec, 6 hrs lab per wk. Prereq: 106 or 116. (I, II)

CHEM 260. Elementary Biochemistry. 4 cr. Introduction to the structure and cellular reactions of the primary constituents of living cells; for students with limited preparation in organic chemistry. 3 hrs lec, 3 hrs lab per wk. Does not count toward chemistry major. Prereq: 220; or 326 and 328. (See note 4.) (II)

CHEM 299. Introduction to Research. 1 cr. Chemistry majors and minors may arrange for independent research with a faculty member. Introduction to chemical research. May be repeated. Does not count toward chemistry major or minor. Prereq: Cons chair.

CHEM 325. Organic Chemistry. 3 cr. (Two semester course) Structure, conformation, stereochemistry, properties and reactions of organic compounds. Structure-property relationships and reaction mechanisms and their application in the study of a broad range of representative functional groups and compounds including

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carbohydrates, polymers, amino acids and proteins. Retrosynthetic analysis and spectroscopic characterization of organic modules. 3 hrs lec per wk. Prereq: 106 or 116. (See notes 1 and 4.) (I, II)

CHEM 326. Organic Chemistry. 3 cr. Continuation of 325. Prereq: 325. (I, II)

CHEM 328. Organic Chemistry Laboratory I. 2 cr. Preparation, characterization and spectral analysis of organic compounds. 6 hrs lab per wk. Prereq: 326 or con reg. (I, II)

CHEM 329. Advanced Synthesis Laboratory. 2 cr. Advanced techniques in the synthesis and characterization of organic and inorganic compounds. 6 hrs lab per wk. Prereq: 248, 326, and 328. (I)

CHEM 330. Brief Course In Physical Chemistry. 4 cr. (One semester survey) Fundamental principles of physical chemistry with emphasis on kinetics, thermodynamics, and colloidal phenomena. Does not count toward any chemistry major. 3 hrs lec, 3 hrs lab per wk. Prereq: 248, 326; Math 222; Physics 250 or con reg; or cons instr. (I)

CHEM 335/535. Physical Chemistry. 3 cr. Laws and principles of physical chemistry including atomic and molecular structure, thermodynamics, kinetics. 3 hrs lec per wk. Prereq: 326, and 395 or con reg; Math 222; Physics 250; or cons instr. (I)

CHEM 336/536. Physical Chemistry. 3 cr. Continuation of 335. 3 hrs lec per wk. Prereq: 335. (II)

CHEM 338/538. Physical Chemistry Laboratory I. 1 cr. Lab work illustrating physical chemistry principles including thermochemical and electrochemical measurements, kinetics, and bulk properties of matter. 3 hrs per wk. Prereq: 248 and 335, or con reg. (I, II)

CHEM 339/539. Physical Chemistry Laboratory II. 1 cr. Extension of 338 with emphasis on use of spectroscopic methods to probe the electronic structure of atoms and molecules and the nuclear motions within molecules. Introduction to laser use in spectroscopy and kinetics. 3 hrs per wk. Prereq: 336 or con reg; 338. (II)

CHEM 340. Intermediate Analytical Chemistry. 4 cr. Theory and methods of chemical analysis including instrumental and separation techniques. 2 hrs lec, 6 hrs lab per wk. Does not count toward any chemistry major. Prereq: 248; Math 111 or 120, or con reg in either; or cons instr. (See note 4.) (I)

CHEM 346/546. Instrumental Analysis. 4 cr. Instrumental methods of analysis including spectroscopic, electrochemical, and separation techniques. 2 hrs lec, 6 hrs lab per wk. Prereq: 248; and 336 or con reg. (See note 4.) (II)

CHEM 365/565. Biochemistry. 4 cr. Structure of principal biomolecules, nature and mechanism of cellular reactions, and central pathways of metabolism. 3 hrs lec, 3 hrs lab per wk. Prereq: 248, 326, and 328; accepted chemistry major/minor or cons chair. (See note 4.) (I, II)

CHEM 371. Introduction to Chemistry of Materials. 1 cr. Main classes of materials—metals, ceramics and glasses, natural and synthetic polymers, composites, and semiconductors. Relationships between chemical structure, physical and chemical properties, and end use. One hr lec per wk. Prereq: 326 or con reg. (I)

CHEM 373. Polymer Synthesis and Characterization. 2 cr. Methods of polymerization of organic and inorganic polymers. Structure-property relationships, classes of natural and synthetic polymers and co-polymers, mechanisms of polymerization, and characterization of polymers by spectroscopic, thermal, physical, and mechanical methods. 2 hrs lec per wk. Prereq: 326; 371 or con reg; Math 120. (I)

CHEM 387. Spectral Identification of Organic Compounds. 1 cr. Advanced treatment of organic compound identification based on spectral analysis. 2 hrs per wk. Prereq: 328 or cons instr. (II)

CHEM 395. Seminar I. 1 cr. Use of chemical and scientific literature, introduction to seminar concept, participate in studies and discuss current developments in chemistry. Prereq: 326 and chemistry major/minor or cons chair. (I)

CHEM 397. Chemical Literature. 1 cr; pass/fail. Read and discuss topics from current chemical literature. Does not count toward chemistry major or minor. Prereq: 395 or con reg.

CHEM 399. Special Work. 1-3 cr. Chemistry majors and minors may arrange for independent projects with a faculty member. May be repeated. Does not count toward chemistry major or minor.

CHEM 425/625. Advanced Organic Chemistry. 3 cr. Theoretical and physical organic chemistry including reaction mechanisms, quantum mechanical applications, advanced stereochemistry. Prereq: 336. (I)

CHEM 435/635. Advanced Physical Chemistry. 3 cr. Advanced treatment of quantum chemistry, spectroscopy, statistical thermodynamics, kinetics. Prereq: 336. (I)

CHEM 445/645. Advanced Analytical Chemistry. 3 cr. Theory and applications of complex chemical equilibria and selected methods of analytical separations. 1 hr lec, 6 hrs lab per wk. Prereq: 248; and 336 or con reg. (See note 4.) (I)

CHEM 455/655. Advanced Inorganic Chemistry. 3 cr. Descriptive inorganic chemistry, periodicity of the elements, bonding theories, reaction mechanisms, acid-base theories; and coordination, bioinorganic, and nuclear chemistry. Prereq: 336 or con reg. (II)

CHEM 458. Advanced Inorganic Chemistry Laboratory. 1 cr. Continuation of 329 for additional specialized training in synthesis, characterization, and reaction of inorganic compounds. 3 hrs lab per wk. Prereq: 329; 455 or con reg. (II)

CHEM 474. Physical Chemistry of Polymers. 2 cr. Key physical aspects of polymer molecules. Bulk properties, polymer solutions, morphology, rheology. Polymer processing and end uses. 2 hrs lec per wk. Prereq: 335, 373. (II)

CHEM 478. Polymer Laboratory. 2 cr. Preparation of polymers by chain-growth and step-growth methods. Introduction to airless techniques and polymer processing. Characterization of bulk and solution properties by molecular weight determinations, spectroscopy, thermal analysis, and mechanical property evaluation. 6 hrs lab per wk. Prereq: 329; 474 or con reg. (II)

CHEM 496/696. Seminar II. 1 cr. Study and discuss current developments in chemistry. Prereq: 336, 395; acceptance into chemistry major or cons chair. (II)

CHEM 499. Independent Research. 1-3 cr. Chemistry majors may arrange for independent research with faculty research adviser. Written report required. Students are encouraged to repeat this course with their adviser. May apply no more than 3 cr toward ACS certified major. Does not count toward L&S chemistry major. Prereq: 248, 326 and cons chair.

CHEM 796. Independent Study. 1-4 cr. Subtitle will designate topic and credits.

Chemistry Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

104	Essentials of Chemistry, 2 cr, (95-97)
369	Topics in Physiological Chemistry, 2 cr, (95-97)
380	Industrial Hygiene Chemistry, 1 cr, (95-97)
397	Chemical Literature, 1 cr, (01-03)
435/635	Advanced Physical Chemistry, 3 cr, (01-03)
445/645	Advanced Analytical Chemistry, 3 cr, (01-03)
468/668	Experimental Biochemistry, 1-2 cr, (95-97)
790	Chemistry Education Workshop, 1-4 cr, (93-95)
796	Independent Study, 1-4 cr, (01-03)
XXX	Marine Chemistry, 6 cr, (01-03)

Chemistry Education Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

790	Chemistry Education Workshop, 1-4 cr, (01-03)
792	Special Topics in Chemistry Education, 1-4 cr, (01-03)

CHILD AND FAMILY STUDIES

See *Health Promotion and Human Development*.

CHILD DEVELOPMENT

See *Education and Health Promotion/Human Development*.

CHINESE

See *Foreign Languages*.

Clinical Laboratory Science (CLS)

(College of Professional Studies)

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Medical Director: Lloyd Arnold, MD

Definition: Clinical laboratory science consists of (1) medical technology for performing lab tests used in preventing, diagnosing, and monitoring diseases; (2) cytotechnology for examining tissues and fluids microscopically to distinguish cancerous from normal cells; and (3) histotechnology for preparing slides for microscopic examination using complex processing and staining techniques. Professionals in these fields study microbiology, hematology, clinical chemistry, immunology, blood bank and more.

Clinical Laboratory Science Major

1. **Academic core requirements:**
 - a. The bachelor of science general degree requirements.
 - b. Clinical Laboratory Science, 25 credits: CLS 105, 125, 205, 225, 295, 365, 385, 415, 425, 435.
 - c. Chemistry 105 and 106 or 115 and 116.
 - d. Biology 160, 210, 285, 333.
 - e. Math 355.
 - f. Complete requirements for one option: cytotechnology, histotechnology, or medical technology.
2. Apply to the appropriate professional program. Acceptance is based on academic credentials, interviews, and available clinical sites. You are eligible to apply for an appropriate clinical practicum after you are formally accepted into the professional program.
3. **Clinical practicum:** 24-26 credits in an affiliated clinical laboratory. Please note that meeting or exceeding the requirements for eligibility to apply for the clinical practicum does not guarantee placement.
 - a. **Cytotechnology** clinical practicum, 26 credits in an affiliated lab: CLS 400, 401, 468, 469, 470, 471, 479, 480, 489, 490.
 - b. **Histotechnology** clinical practicum, 24 credits in an affiliated lab: CLS 402, 409, 410, 411, 412, 420, 421, 488, 491.
 - c. **Medical technology** clinical practicum, 26 credits in an affiliated lab: CLS 406, 416, 426, 436, 446, 456, 476, 486, 497, 498, 499.

Cytotechnology Option

Includes the academic program (99-104 on-campus credits) and the clinical practicum (26 off-campus credits).

1. Complete the CLS academic core requirements above.
2. CLS 375.
3. Biology, 10-16 credits: Biology 286, 314, 318 or 326. We recommend Biology 130 to complete a biology minor.
4. Chemistry (recommended):
 - a. Chemistry 220 and 260.
 - OR

- b. Take Chemistry 248, 325, 326, 328, and 365 if you are planning graduate work or other professional programs.

Histotechnology Option

Includes the academic program (96-103 on-campus credits) and the clinical practicum (24 off-campus credits).

1. Complete the CLS academic core requirements above.
2. Biology, 9-16 credits: Biology 286 and two courses from 314, 318, 320, 326, 373. We recommend Biology 130 to complete a biology minor.
3. Chemistry (recommended):
 - a. Chemistry 220 and 260.
 - OR
 - b. Take Chemistry 248, 325, 326, 328, and 365 if you are planning graduate work or other professional programs.

Medical Technology Option

Includes the academic program (119-120 on-campus credits) and the clinical practicum (26 off-campus credits).

1. Complete the CLS academic core requirements above.
2. Clinical Lab Science, 15 credits: CLS 375, 405, 414, 445, 465, 495.
3. Chemistry, 15 credits: Chemistry 248, 325, 326, 328, 365. You may take Chemistry 105 and 106 in lieu of 115 and 116 with permission of chemistry chair and CLS chair.
4. You must attend one summer session following your sophomore or junior year.

Accreditation

The UWSP Clinical Laboratory Science Program, Medical Technology Option, is accredited by the National Accrediting Agency for Clinical Laboratory Sciences. Inquiries regarding the accreditation status of the program may be directed to: NAACLS, 8410 West Bryn Mawr Ave, Suite 670, Chicago IL 60631; phone 773-714-8880; fax 773-714-8886; e-mail gj@naccls.org.

Affiliation agreements

This university has affiliation agreements with the following medical facilities to provide clinical practicum education for seniors. The director and the educational coordinators of the affiliated clinical laboratories are given courtesy appointments as university adjunct faculty.

Medical Technology

- Berkshire Medical Center*, Pittsfield, Massachusetts: Rebecca Johnson, MD; Lynne Lavinio, MBA, MT(ASCP);
Langlade Memorial Hospital, Antigo: Michael Lawton MT(ASCP);
Riverview Hospital, Wisconsin Rapids: Michael Lange, MT(ASCP);
Sacred Heart Hospital, Eau Claire: Thomas W. Hadley, MD; Richard Miley, MS, MT(ASCP);
St. Elizabeth's Hospital, Appleton: Peter Podluskus, MD; Cecelia W. Landin, MS, MT(ASCP);
St. Joseph's Hospital, Marshfield: Gene Shaw, MD; Julie Seehafer, SH(ASCP);
St. Michael's Hospital, Stevens Point: Rodney Hoeth, MS, MT(ASCP);
St. Vincent Hospital, Green Bay: D.P. Sharphol, MD; Harlan Bloy, MT(ASCP);
V.A. Hines Hospital: M. E. Rubnitz, MD; Donna Wray, BS, MT(ASCP), CLS(NCA);
Wausau Hospital Center, Wausau: Steven Bodemer, MD; Susan Flaker Johnson, MEPD, MT(ASCP).

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Cytotechnology

Wis State Lab of Hygiene, Madison: Lynn Sterud, CT(ASCP);
Marshfield Labs, Marshfield: George Rupp, MD; Donald
Schnitzler, BS, CT(ASCP);

Mayo Clinic-School of Health Sciences, Rochester, Minn:
John Goellner, MD; Jill Caudill, MEd, CT(ASCP).

Histotechnology

Marshfield Labs, Marshfield: Kathryn Kolquist, MD;
Katherine Gorman, BS, HTL(ASCP).

Academic Standards

For acceptance and continued registration as a candidate for the clinical lab science major you must have a grade point average of 2.75 overall and in the sciences, including biology, chemistry, mathematics, and clinical lab science at the end of your sophomore year. You are screened during the summer following your sophomore year for acceptability to apply for clinical practicum positions. You must also maintain a 2.75 GPA overall and in the sciences throughout your junior year.

Grades in required courses taken prior to declaring academic bankruptcy or in repeating courses will be used in calculating your grade point average. No more than two courses with grades of less than C- will be accepted in the major and/or may be repeated for credit.

If you do not meet these standards, you may petition the director for consideration. Courses in clinical lab science are open to all students who meet the prerequisites. The minimum GPA for graduation is 2.50.

Test-Out and Credit-by-Exam Policy

Advanced placement and credit-by-exam are available for all courses offered through the Department of Clinical Laboratory Science. Contact the department chair for additional information.

Courses in Clinical Laboratory Science

**Clinical practicum: courses marked with (*) will be completed at affiliated clinical laboratories. Admission to the Professional Program is a prerequisite for all clinical practicum courses.*

CLS 105. Evolution of Health Care and Health Care Professions.

3 cr. History of medicine and evolution of health care professions in the context of philosophical and cultural influences; examine various health care systems; analyze current health care system and health professions in the United States. 3 hrs lec per wk. GDR:SS2

CLS 125. Introduction to Clinical Laboratory Science 1. 1 cr.

Overview of laboratory safety, phlebotomy, immunology, immunohematology, hematology, and coagulation; all with introductory lab exercises. 1 hr lec, 2 hrs lab per wk.

CLS 205. Clinical Orientation. 1 cr; pass/fail. Hospital introduction to laboratory techniques. Open to students considering a major in CLS.

CLS 225. Introduction to Clinical Laboratory Science 2. 1 cr.

Overview of clinical chemistry, body fluid analysis, diagnostic microbiology, and molecular pathology; all with introductory lab exercises. 1 hr lec, 2 hrs lab per wk.

CLS 295. Medical Terminology. 2 cr. Examine bases of medical terms: prefixes, suffixes, roots, combined forms; terms that name the nine basic body systems and organs. 2 hrs lec per wk.

CLS 365. Body Fluid Analysis. 2 cr. Theoretical and practical aspects of chemical and microscopic analysis of urine, cerebrospinal fluid, synovial fluid, and serous fluid. 2 hrs lec per wk. Independent lab. Prereq: Biology 285.

CLS 375. Quality Systems in the Clinical Laboratory. 2 cr. Study quality management in the clinical laboratory; discuss pre-analytical, analytical, and post-analytical phases of testing, statistical methods of quality control, regulatory requirements, verification of instrument maintenance and functions, and risk assessment. Prereq: Admission to the professional program.

CLS 385. Professional Leadership Development. 3 cr. Study professional roles, responsibilities, contemporary problems and conflicts related to leadership and laboratory administration; discuss human resource management, financial management, and education methodologies appropriate for supervisors and managers. 2 hrs lec, 2 hrs lab per wk. Prereq: Jr st.

CLS 395. Environment, Health, and Technology. 3 cr. The changing environment and its relationship to human health, including historical review, current concerns, and future projections. Topics include health effects of radiation, water and air pollutants, antibiotics, emerging infectious diseases and overpopulation. Includes case studies. Prereq: Jr st. GDR:EL

***CLS 399. Special Work.** 1-3 cr. Special independent research projects. Credit based on scope of project. Prereq: Jr st and cons chair.

***CLS 400. Cytologic Techniques I.** 3 cr. Study common diagnostic techniques in cytology.

***CLS 401. Cytologic Techniques II.** 3 cr. Study advanced techniques and emerging methodologies in cytology.

***CLS 402. Microscopy.** 1 cr. Study of light and electron microscopy techniques for the histology laboratory.

CLS 405. Clinical Chemistry. 4 cr. Study physiology of body analytes, organ systems, and clinical procedures corresponding to human disease states; discuss areas unique to clinical chemistry laboratory and professional performance. 3 hrs lec, 3 hrs lab per wk. Prereq: Chemistry 365 or con reg.

***CLS 406. Clinical Chemistry Practicum.** 4 cr. Apply principles of clinical chemistry; use chemical analytical techniques to determine specific substances and correlate results to various disease states. Prereq: 405.

CLS 409. Immunohistochemistry. 3 cr. Study the theory and techniques in immunohistochemistry staining.

***CLS 410. Histology Techniques I.** 3 cr. Study laboratory safety, specimen processing and accessioning, instrumentation, and fixation.

***CLS 411. Histology Techniques II.** 3 cr. Study techniques for tissue processing, theories of staining, and tissue embedding.

***CLS 412. Histology Instrumentation.** 3 cr. Study of routine histology instruments; tissue preparation and use of microtomes and other instruments in preparing and staining specimens for microscopic examination.

CLS 414. Hemostasis. 2 cr. Study mechanisms and disorders of hemostasis and fibrinolysis; diagnostic techniques and instrumentation used in patient diagnosis. 1 hr lec, 3 hrs lab per wk.

CLS 415. Hematology. 4 cr. Study the hematopoietic system including the relationship of hematologic disease states to diagnostic characteristics; determine blood and bone marrow cellular morphology; discuss erythrocyte and leukocyte disorders; study diagnostic techniques and correlate results to disease processes. 3 hrs lec, 3 hrs lab per wk. Prereq: Biology 285.

***CLS 416. Clinical Hematology/Hemostasis Practicum.** 4 cr. Practical application of theoretical knowledge in hematology and hemostasis; process and analyze patient specimens; use instrumentation and microscopic techniques to determine anemias, leukemias, coagulation disorders, and other disease processes. Prereq: 415.

***CLS 420. Special Stains.** 6 cr. Use special staining methodology for connective tissue, nerve cells, lipids, amyloid, minerals, pigments, microorganisms, and enzymes.

***CLS 421. Frozen Sections and Cytology Preparation.** 3 cr. Study the techniques to prepare frozen tissue and sections for microscopic examination.

CLS 425. Diagnostic Medical Microbiology. 5 cr. Study bacterial, mycoplasmal, rickettsial, chlamydial, parasitic, and mycotic diseases of humans; identify clinical signs and symptoms of these diseases; explore collection, transportation, modes of transmission, and laboratory methods used to detect and identify the pathogens as well as appropriate antibiotic therapy. 3 hrs lec, 6 hrs lab per wk. Prereq: Biology 333.

***CLS 426. Diagnostic Microbiology Practicum.** 5 cr. Cultivate, isolate, and identify pathogenic bacteria, fungi, viruses, and parasites from a variety of patient specimens; perform antibiotic sensitivities and therapeutic drug testing. Prereq: 425.

CLS 435. Immunology. 3 cr. Study concepts in immunology and serologic techniques used to diagnose disease; discuss immunodeficiency diseases, autoimmune disorders, immunology of malignancies, and hypersensitivities. 2 hrs lec, 3 hrs lab per wk. Prereq: Biology 285

***CLS 436. Clinical Immunology Practicum.** 2 cr. Apply clinical immunologic techniques to identify antigen-antibody reactions and relate to disease states; explore principles and interpretation of HLA testing and flow cytometry. Prereq: 435.

CLS 445. Immunoematology. 3 cr. Study of human blood group systems, antibody screening and identification, blood components, compatibility testing, donor selection and processing, blood bank regulations; perform blood bank procedures. 2 hrs lec; 3 hrs lab per wk. Prereq: Biology 285.

***CLS 446. Clinical Immunoematology Practicum.** 3 cr. Concepts of blood banking; determine patient compatibility for blood and blood components; solve hemolytic disease and antibody identification problems; process blood and components; explore histocompatibility techniques. Prereq: 445.

***CLS 456. Advanced Applications Practicum.** 1 cr. Advanced study in specific practice of clinical laboratory science such as ancillary testing, laboratory information systems, primary care laboratory, management, industry, cytogenetics or molecular biology.

CLS 465. Molecular Pathology. 3 cr. Study composition, structure, function, and characteristic DNA; use clinical laboratory techniques to isolate, amplify, manipulate, and analyze DNA sequences; relate to human health and disease states. 1 hr lec, 6 hrs lab per wk.

***CLS 468. Gynecologic Cytology.** 6 cr. Study normal cell differentiation in the female reproductive system. Identify and describe cellular changes and abnormalities in cells found in the female reproductive organs.

***CLS 469. Pulmonary Cytology.** 3 cr. Study normal cell differentiation in the lung. Identify and describe cellular changes and abnormalities in cells found in pulmonary tissue.

***CLS 470. GI Tract Cytology.** 3 cr. Study normal cell differentiation. Identify and describe cellular changes and abnormalities in cells found in the GI tract.

***CLS 471. Urinary Tract Cytology.** 2 cr. Study normal cell differentiation. Identify and describe cellular changes and abnormalities in cells found in the urinary tract.

***CLS 476. Clinical Body Fluid Analysis.** 1 cr. Clinical study of body fluids including cerebral spinal fluid, synovial fluid, pleural fluid, seminal fluid, and urinalysis; discuss specimen analysis, diagnostic procedures, and test results as related to disease. Prereq: 365.

***CLS 479. Body Fluid Cytology.** 2 cr. Distinguish normal cells from cells undergoing changes and abnormal cells in various body fluids.

***CLS 480. Aspiration Cytology.** 2 cr. Classification and differentiation of cells obtained through aspiration techniques.

***CLS 486. Management and Laboratory Information Systems.** 2 cr. Management theory and application of management techniques to laboratory situations; fundamentals of laboratory information systems. Prereq: 385.

***CLS 488. Methodologies In Histology Education.** 1 cr. Current approaches to education in the histology laboratory.

***CLS 489. Methodologies In Cytology Education.** 1 cr. Current approaches to education in the cytology laboratory.

***CLS 490. Management In Cytology.** 1 cr. Study of cytology laboratory management practices.

***CLS 491. Management In Histology.** 1 cr. Study of histology laboratory management practices.

CLS 495. Research Design and Methods In Clinical Laboratory Science. 1 cr. Apply scientific method to clinical laboratory research problems; explore research design principles; write research proposals; design research project. 1 hr lec per wk. Prereq: Admission to the professional program.

CLS 496. Clinical Correlations 1. 1 cr. Correlation of symptoms, clinical test results, and diagnosis of diseases as related to cardiovascular, pulmonary, renal, gastrointestinal, and hepatobiliary disorders; appropriate lab use. Prereq: Admission to the professional program.

***CLS 497. Clinical Correlations 2.** 1 cr. Correlation of symptoms, clinical test results, and diagnosis of diseases as related to endocrine

disorders, reproduction, and neurological, hematologic, and immunologic disorders; appropriate lab use.

***CLS 498. Clinical Correlations 3.** 1 cr. Correlation of symptoms, clinical test results, and diagnosis of diseases as related to tumor markers, infectious disease, nutritional and metabolic disorders, toxicology and drug monitoring, the neonate, and geriatrics.

***CLS 499. Advanced Clinical Studies.** 2 cr. Capstone course under supervision of mentor. Design and conduct research project in specialty area of clinical laboratory science; prepare major research paper and presentation.

COACHING

See *Health, Exercise Science, and Athletics*.

COLLABORATIVE DEGREE PROGRAM

See *More Academic Information, General Studies, or Business and Economics*.

Communication

(College of Fine Arts and Communication)

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Definition: Communication is the study of how humans use symbols to create, send, receive, and respond to messages in a variety of contexts using oral, written, visual, or mediated channels.

The Division of Communication offers a single comprehensive communication major and minor. Working with a faculty adviser, you can prepare for a wide range of communication careers in broadcasting, new media, journalism, public relations, management, training, sales, and human services. Many other students pursue a communication major as part of personal enrichment in the humanities and liberal arts. You must complete all coursework required for the major or minor and are also expected to acquire strong oral and written communication competencies. The division encourages everyone to participate in one or more of the student organizations and the internship program. These enhance job opportunities upon graduation by providing practical communication experience.

Communication Major

Admission Requirements for the Major

If you are interested in declaring a communication major, you must meet with a division representative. Incoming freshmen and transfer students are "premajors." Before you apply to become a major:

1. You must complete at least 7 communication credits including:
 - a. Comm 100.
 - b. Any one of Comm 171, 271, 273.
 - c. Any one of Comm 160, 190, 220, 230, 240, 251, 280.
2. You must apply to the major before you complete 13 communication credits.
3. You must achieve a minimum 2.75 GPA for all 7-13 communication credits you complete before you apply.

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4. Apply to the major after you complete items 1-3 above.
5. Applications are due before the end of the ninth week of each full semester.
6. In addition to the above items, if you have completed 60 or more university credits, you must have a 2.25 overall GPA to be accepted into the major.
7. If you are not accepted into the major, you may reapply once.
8. For exceptions to the above policies, you may appeal to the head of the division.

Academic Requirements for the Major

Consists of a minimum of 40 credits in communication courses:

1. Required: Comm 100.
2. Required core: Comm 171, 271, 273, 373.
3. Complete at least one emphasis area.
4. Eighteen credits must be in courses numbered 300 or above.
5. Comm 101 may not be used to complete the major.

Communication Minor

Admission Requirements for the Minor

If you are interested in declaring a communication minor, you must meet with a division representative.

Academic Requirements for the Minor

Consists of a minimum of 24 credits:

1. Required core: Comm 171, 271, 273, 373.
2. Electives: 12 credits of communication courses, at least 6 must be 300 level or above.
3. Comm 101 may not be used to complete the minor.

Areas of Emphasis

To major in communication and qualify for graduation, in addition to the core courses, you must complete one of the following emphasis areas. Also note that courses listed below with an asterisk (*) are laboratory or topics courses and may be repeated for credit under different subtitles.

Interpersonal and Organizational—Required: Comm 240, 280, 383. Electives: 12 credits from Comm *342, 343, *349, *380, 381, *385, 386, 387, *389, *390 (interpersonal or organizational focus), 392, *394, 396.

Media and Technology Studies—Required: Comm 190 and two of Comm 160, 220, 250 or 251. Electives: 12 credits (at least 9 must be 300 level or above) from Comm 160, 220, 221, 250, 251, 252, 253, 302, 303, 304, 306, 307, 321, *322 (desktop publishing focus), 323, 325, 329, 350, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, *362, *363, 364, 365, 366, 369, 387, *390 (media technology focus), 392.

Public Relations—Required: Comm 221, 230, 334. Electives: 12 credits, at least 6 must be from Comm *330, 333, *390 (crisis communication focus), 431. Additional 6 credits may be from Comm *322 (desktop publishing focus), 335, *380 (problem-solving focus), *390 (marketing focus), 392, 394, 439.

Individually Planned (I.P.E.)—Required: Comm 100, 171, 271, 273, 373. Electives: 27 credits of additional communication courses selected in consultation with your adviser and approved by the division head. At least 18 must be 300 level or above. To graduate with an individually planned emphasis in communication you must earn a 2.75 GPA in communication courses.

Academic Standards

Retention and Graduation

1. After you complete 12 communication credits, you must achieve and maintain a 2.75 GPA for all

2. communication courses taken, excluding 101.
2. If you fall below a 2.75 GPA any time after completing 12 credits, you will be placed on probation. If your communication GPA remains below 2.75 after the next semester in which you enroll in at least one communication course (excluding 101), you will be dropped from the major or minor.
3. In order to graduate with a major or minor in communication, you must achieve a 2.75 GPA in all communication classes taken, regardless of a declaration of academic bankruptcy. The division will attempt to notify and consult with communication majors who are at or below a 2.75 GPA. It is your responsibility, however, to know your own GPA status.
4. Finally, be aware that courses with a grade below C- DO NOT count toward the major or minor. See the **More Academic Information** section of this catalog for the policy on repeating courses.
5. **Transfer credit policy:** Certain courses taken at other universities may substitute for courses in the major. Credits from these courses will be counted when calculating your GPA in communication.

Test-out, Credit-by-Exam, Retroactive Credit Policy

If you think you qualify for the above, contact the division head who will determine whether the exam will be for test-out, credit-by-exam, and/or retroactive credit. A designated instructor will administer a written exam that evaluates your level of ability with the content of the course. A grade of B or better will qualify for test-out. Courses that involve applied skills and/or oral performance may also require a second performance exam if you score well enough on the written exam.

Courses in Communication

COMM 100. Introduction to Communication Study. 1 cr pass/fail. Orientation to being a major in the Division of Communication.

COMM 101. Fundamentals of Oral Communication. 2 or 3 cr. Introduction to and application of those principles which lead to an understanding of and facility with practical discourse. GDR:COMM

COMM 160. Introduction to the Art of Film (formerly 125). 3 cr. Survey and appreciation of film; form and structure; representative types and styles illustrated by creators such as Hitchcock, Welles, Ford, and Eisenstein. GDR:HU1

COMM 171. Communication in Civilization. 3 cr. The role of rhetorical and communication theory in shaping culture and civilization from the Greeks through contemporary America. GDR:HU1

COMM 190. Evolution of Mass Media in America (formerly 121). 3 cr. The growth, regulations, and ramifications of communication media in this country. GDR:HU1

COMM 220. Introduction to Journalism. 3 cr. Introduction to print and electronic journalism with special focus on issues, structures, functions and effects of the industry.

COMM 221. Basic Journalism: Newswriting and Reporting. 3 cr. Basic newswriting and reporting for newspapers: composition and news gathering skill, styles and story forms, and copy editing.

COMM 230. Introduction to Public Relations. 3 cr. Introduction to theory and practice of public relations; special focus on the public relations campaign.

COMM 240. Introduction to Organizational Communication (formerly 217). 3 cr. Introduction to organizational communication theories and workplace practices. GDR:SS2

COMM 250. Applied Media Aesthetics. 3 cr. Introduction to aesthetics in aural and visual media; theoretic preparation for production courses; basic scriptwriting for aural and visual media. GDR:HU1

COMM 251. Introduction to Broadcasting. 3 cr. Introduction to the history and organization of the broadcasting industry. Emphasis on relationship between program producers, distributors and regulatory agencies.

COMM 252. Basic Radio Production. 3 cr. Introduction to radio production. Subtitle will designate area. May repeat for credit with different subtitle.

COMM 253. Video Production I. 3 cr. Introduction to television production, including processes and procedures of producing and directing.

COMM 271. Contemporary Communication Theories. 3 cr. Introduction to and application of contemporary communication theories and research.

COMM 273. Reasoning and Criticism. 3 cr. Methods for the analysis of reasoning and persuasion; critical applications.

COMM 280. Introduction to Interpersonal Communication (formerly 211). 3 cr. Investigation of and experience with communication that facilitates the establishment and maintenance of effective personal relationships. GDR:SS2

COMM 299. Special Work. Freshman and sophomore communication majors and minors may arrange for independent study with cons div head. Credit based on scope of the project. Prereq: Cons instr.

COMM 300. Introduction to Communication Research. 3 cr. Types and principles of research in communication; emphasis on interpretation of various research studies and analysis of their implications for the communication field; practice in library and survey research.

COMM 302/502. Global Communication and the Information Age. 3 cr. Trends and contemporary issues of computer mediated communication including censorship, privacy, business trends, community networks, and legal concerns. Applications using new technologies.

COMM 303/503. Technology and Leadership. 3 cr. Impact of the information age on contemporary leadership issues.

COMM 304/504. Using the Internet for Creative Education and Social Change. 3 cr. Creating internet strategies and materials for education, business, and nonprofit agencies.

COMM 306/506. Multimedia Authoring and Publishing on the Net. 3 cr. Training in the development of computer mediated communication applications. Prereq: 110 or cons instr.

COMM 307/507. Advanced Multimedia Authoring and Publishing on the Net. 3 cr. Advanced training in the development of computer mediated communication applications. Web page creation incorporating digital audio and digital video production, 2-D computer animation and other computer programs. Prereq: 306/506 or cons instr.

COMM 321. Advanced Journalism. 3 cr. News and public affairs writing and reporting, investigative reporting, interpretive writing, and editing. Prereq: 221 or cons instr.

COMM 322. Communication Graphics Laboratory. 3 cr. Principles of design and their application in the preparation and production of graphic materials in the communication media industries. Subtitle will designate area. May repeat for credit with different subtitle.

COMM 323. Journalism Writing Laboratory. 3 cr. Practice in specific forms of journalistic writing such as feature, editorial, sports, science, and magazine writing. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 221 or cons instr.

COMM 325/525. Press Freedom and Law. 3 cr. Examine U.S. laws and regulations relating to freedom of speech and press, regulation of advertising, and information gathering and dissemination.

COMM 329. Topics in Journalism. 3 cr. Typical offerings include new journalism, literary journalism, journalism history, business journalism. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 220 or cons instr.

COMM 330/530. Public Relations Laboratory. 3 cr. Training in methods used by institutions to relate to their respective publics. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 230 or cons instr.

COMM 333/533. Case Studies in Public Relations. 3 cr. Examine and critique various cases involving public relations activities and campaigns. Prereq: 230 or cons instr.

COMM 334/534. Writing for Public Relations. 3 cr. Training in writing press releases, newsletters, brochures, and other public relations tools. Prereq: 221, 230 or cons instr.

COMM 335/535. Advertising Copywriting. 3 cr. Training in writing advertising for various media including print, broadcast, and direct mail. Prereq: 230 or cons instr.

COMM 342/542. Organizational Communication Laboratory. 3 cr. Organizational communication processes such as leadership and management communication skills, communication training and development, and communication and performance appraisal process. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 240 or cons instr.

COMM 343/543. Organizational Communication Assessment. 3 cr. Theories and procedures for assessing communication effectiveness in organizations especially communication audit techniques and designing solutions to communication problems in organizations. Prereq: 240 or cons instr.

COMM 349/549. Organizational Communication Topics. 3 cr. May include communication in corporate culture, communication and labor relations, organizational communication and motivation, and employee communication patterns. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 240 or cons instr.

COMM 350. Production Design. 3 cr. Advanced media aesthetics with emphasis on application of aesthetic concepts to production projects. Apply concepts from Comm 250 to projects from story concept through scripting to visualization to be prepared for actual production of projects. Prereq: 250.

COMM 352. Advanced Radio Production. 3 cr. Advanced training in radio production such as digital audio lab or broadcast announcing. Subtitle will designate area. May repeat for credit with different subtitles. Prereq: 252 or cons instr.

COMM 353. Video Production II. 3 cr. Intermediate course in video production, continuation of 253. Introduction of specific contexts/genres. Prereq: 250 and 253.

COMM 354. Broadcast News Laboratory. 3 cr. Training in radio and television newswriting, reporting, and production. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 252 or 253 or cons instr.

COMM 355/555. History of Broadcasting. 3 cr. Examine development and growth of radio/television in America.

COMM 356. Advanced Television Production. 3 cr. Advanced training in television production such as corporate video production; documentary production; advanced editing. May repeat with different subtitle. Prereq: 353.

COMM 357. Broadcast Newswriting and Production. 3 cr. Practical application of principles, techniques, and process of broadcast newswriting and production. Prereq: 253 or cons instr.

COMM 358/558. Media Law for Producers. 3 cr. Explore issues for producers of electronic media including privacy, libel and slander, shield laws, open meeting law, obscenity and indecency, copyright, and political access. Prereq: 190 or 251 or cons instr.

COMM 359/559. Topics in Broadcasting. 3 cr. Typical offerings include broadcast programming and management, criticism of broadcasting, mass media effects, and audience research. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 251 or cons instr.

COMM 360/560. Film History: Beginning to 1940. 3 cr. Development and international trends of the motion picture from late 19th century to 1940. GDR:HU1

COMM 361/561. Film History: 1940 to Present. 3 cr. Development and international trends of the motion picture from 1940 to present. GDR:HU1

COMM 362/562. Topics in Film History. 3 cr. Significant national and international trends, issues, artists in the film history such as American films of the 20-30s, American films of the 40-50s, American films of the 60-70s, films of Alfred Hitchcock. May repeat for credit with different subtitle. GDR:HU1

COMM 363/563. Film and Television Genres. 3 cr. Examine media narrative forms that share common stylistic and narrative conventions and themes such as survey of film and television genres, the American musical film, and images of the American West. Subtitle will designate area. May repeat with different subtitle.

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COMM 364/564(NW). Soviet Film and Culture. 3 cr. Examine needs of art and government in a totalitarian political system. May not earn credit in both 364 and same topic of History 341.

COMM 365/565. Writing for the Media. 3 cr. Writing for specific media contexts such as ad copywriting, scriptwriting, writing for public relations. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: Cons instr.

COMM 369/569. Topics in Film. 3 cr. Typical offerings include film theory and criticism, and survey of documentary film. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 125 or cons instr.

COMM 371. Media Stereotyping. 3 cr. Examine the way media have created and reinforced stereotypes.

COMM 373. Communication and Social Change. 3 cr. Study communication theories, media, methods, and strategies for affecting or resisting change in society. Prereq: 171 or 271 or 273.

COMM 374. Art of Criticism. 3 cr. Apply critical approaches for understanding, analyzing, evaluating, and appreciating selected forms of communication. Prereq: Jr st.

COMM 380/580. Small Group Communication Laboratory. 3 cr. Small group communication processes such as creative problem solving, family communication, and group discussion. Subtitle will designate area. May repeat for credit with different subtitle.

COMM 381/581. Dialogical Communication and Relationships (formerly 311/511). 3 cr. Examine the theory and practice of communication based directly and primarily on genuine regard for the other, as it applies to intimacy in close personal relationships. Prereq: 211.

COMM 383/583. Interpersonal Communication in Organizations. 3 cr. Examine the theory and practice of interpersonal communication in organizational settings. Prereq: 240 or 280.

COMM 385/585. Interpersonal Communication Laboratory. 3 cr. Interpersonal communication processes such as nonverbal communication or communication strategies. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 280 or cons instr.

COMM 386/586. Listening. 3 cr. Apply skills and strategies to such listening contexts as discriminative, evaluative, appreciative, and empathic. Prereq: 280 or cons instr.

COMM 387. Interviewing. 3 cr. Apply skills and strategies to such interviewing contexts as: performance appraisal, selection, journalistic/probing, and persuasive. Prereq: 280 or cons instr.

COMM 389/589. Personal Communication Topics. 3 cr. Such as conflict management and interpersonal sales. Subtitle designates area. May repeat for credit with different subtitle. Prereq: 280 or cons instr.

COMM 390/590. Seminar. 3 cr. Study and discuss new development, special problem, or area of interest in the field of communication. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: Cons instr.

COMM 392. Communication Ethics. 3 cr. Examine moral theories across various communication contexts. Practice in determining and defending ethical decisions. Prereq: Jr st.

COMM 393/593. Oral Interpretation. 3 cr. Art of communicating intellectual, emotional, and aesthetic qualities of a literary work to an audience.

COMM 394. Speech-Making Laboratory. 3 cr. Training in speech making with emphasis on preparation, delivery and evaluation. May repeat. Prereq: 101 or placement through test-out.

COMM 395/595. Special Topics. 1-3 cr. Subtitle will designate communication topic. May repeat for credit with different subtitle. Prereq: Cons instr.

COMM 396/596. Communication and Gender (formerly 370/570). 3 cr. Study communication behaviors as they affect and are affected by gender.

COMM 431. Public Relations Campaigns. 3 cr. Training in campaign planning including research; develop themes, identify relevant publics, develop appropriate messages. Prereq: 230 and 3 addl 300-level cr in public relations or cons instr.

COMM 480. Communication Internship. 1-8 cr. Supervised field experience with a cooperating agency in fields related to communication; evaluation and review sessions with intern coordinator and agency supervisor; culminating paper. May apply 8 cr max to graduation and 3 cr max to major. Prereq: Approved comm major with jr/sr st and cons intern director.

COMM 499. Special Work. Upperclass communication majors and minors may arrange for independent study with cons div head. Credit based on scope of the project. May apply 3 cr max to major.

COMM 701. Introduction to Communication Graduate Studies. 3 cr. Overview of historical, theoretical, conceptual, and philosophical foundations of the field of communication.

COMM 702. Seminar in Communication Research Methods. 3 cr. Examine methods used to study communication activities such as qualitative, quantitative, and historical communication research methods and applications. Subtitle will designate area. May repeat for credit with different subtitle.

COMM 720. Seminar in Mass Communication. 3 cr. Examine theory and research in mass communication. Topics such as mass communication theory, mass media effects, contemporary problems in mass media research, contemporary research in broadcasting. Subtitle will designate area. May repeat for credit with different subtitle.

COMM 730. Seminar in Public Relations. 3 cr. Examine theory and research in public relations. Topics such as comparative models, crisis communication, media effects, media relations, international public relations, public relations as practiced within various contexts. Subtitle will designate area. May repeat for credit with different subtitle.

COMM 740. Seminar in Interpersonal Communication. 3 cr. Examine theory and research in interpersonal communication. Topics such as interpersonal communication theory, analysis of dyadic communication, interpersonal skills for management, small group dynamics. Subtitle will designate area. May repeat for credit with different subtitle.

COMM 770. Seminar in Organizational Communication. 3 cr. Examine theory and research in organizational communication. Topics such as organizational communication theory, management and organizational communication, communication in corporate cultures, interpretive research in organizational settings. Subtitle will designate area. May repeat for credit with different subtitle.

COMM 780. Project Credit. 1-3 cr. If you are completing a "project option" for your degree, enroll in at least one credit of 780 each semester you are working on your project.

COMM 790. Seminar. 3 cr. In-depth study of a specific area of importance to communication scholars. Subtitle will designate area.

COMM 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization; regular conferences with staff supervisor.

COMM 797. Colloquium. 1 cr. Presentation/discussion of current research within the profession by our faculty and students. Meets periodically throughout the semester.

COMM 799. Thesis Credit. 1-6 cr. If you are completing a "thesis option" for your degree, enroll in at least one credit of 799 each semester you are working on your thesis.

Communication Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

175	Intro to Diversity Communication, 3 cr, (99-01)
238	Intro to Advertising, 3 cr, (01-03)
332/532	Public Relations Practicum, 3 cr, (99-01)
337/537	Advertising Strategies, 3 cr, (99-01)
338/538	Advertising Laboratory, 3 cr, (01-03)
340/540	Organiz Comm Laboratory, 3 cr, (01-03)
366	Film and American Environment, 3 cr, (01-03)
372	Inter-Ethnic Communication, 3 cr, (99-01)
375	Interracial Communication, 3 cr, (99-01)
376	Multigenerational Communication, 3 cr, (99-01)
377	Communication and Aging, 3 cr, (99-01)
378	Diversity Communication Strategies, 3 cr, (99-01)
379	Native American Communication Issues, 3 cr, (99-01)
391/591	Computer Communication Laboratory, 3 cr, (01-03)
439	Advertising Campaigns, 3 cr, (01-03)
490	Senior Seminar, 3 cr, (01-03)
500	Intro to Communication Research, 3 cr, (91-93)
521	Advanced Journalism, 3 cr, (91-93)
522	Communication Graphics Laboratory, 3 cr, (91-93)
523	Journalism Writing Laboratory, 3 cr, (91-93)
529	Topics in Journalism, 3 cr, (91-93)
554	Broadcast News Laboratory, 3 cr, (91-93)
750	Creativity and Symbolism, 3 cr, (01-03)
760	Perspectives in Communication Education, 3 cr, (87-89)
785	Administrative Communication: Educ Systems, 3 cr, (87-89)
xxx	Diversity Comm Option (approved Faculty Senate 5-2-90)
xxx	Comm Technologies Management Major (approved 2002)

Communicative Disorders

(College of Professional Studies)

Gary D. Cumley, Chair, School of Communicative Disorders
Room 037, College of Professional Studies Building
Phone: 715-346-2328

E-mail: commdis@uwsp.edu
Web: www.uwsp.edu/commd

Faculty: N Cass, D Christensen, G Cumley, M Day,
C Forster, T Gumz, D Henry, C Osborne, L Plonsker,
M Stadler, M Watson, V Weber-Pagel.

Definition: Communicative disorders is the study of human communication processes with application to a variety of speech, language and hearing disorders. You acquire an academic base and clinical practicum experiences for careers in speech-language pathology and audiology.

When you major in communicative disorders you have two options: (1) a major leading to educational certification, and (2) a major which does NOT lead to educational certification. No minor is available. The school's coordinator of academic programs will advise you.

Communicative Disorders Major

Courses required at the undergraduate level:

1. The bachelor of science or bachelor of arts general degree requirements.
2. Communicative Disorders, 41 credits: 108, 160, 264, 266, 267, 342, 345, 351, 352, 360, 366, 407, 451 and 4 cr of 495.
3. Biology 101 or 160; Chemistry 100 or 101; Physics 101 or 115.
4. Psychology, 13 credits: Psychology 110, 325, 260 or Human Development 265; Math 355 or Psychology 300 (if math requirement has been met).
5. Collateral courses, 6 credits.
 - a. One course from Psychology 465, Sociology 366, 467.
 - b. One course from Psychology 330, 331.

Communicative Disorders Major for Teacher Certification

For admission to the professional education program, you must have completed all 200 level coursework in communicative disorders and have an overall GPA of 2.75 (including transfer credits) and an in-major GPA of 3.00. Coursework consists of all the major requirements listed above, plus the following:

1. Education, 7 credits: 205, 351, 381.
2. History, 6 credits: 212 and one additional course from 120, 130, 211, 379, 382, 385.
3. Political Science 201, or 101 and 242.
3. The master of science degree in communicative disorders.

Academic Standards

1. You must have an overall GPA of 2.0 to enroll in lower division preprofessional coursework for the major. These courses are Communicative Disorders 108, 251, 260, 264, 266, 267.
2. To enroll in upper division (300-400 level) preprofessional coursework you must complete the lower division preprofessional coursework with a GPA of 3.0 and have an overall GPA of 2.75.
3. You must earn a grade of C or better in required communicative disorders coursework to receive credit

toward the major. You may repeat a course once if you earned a grade of less than C.

4. You must maintain a 2.75 GPA overall and a 3.0 GPA in this major throughout the upper division coursework.
5. If you fail to meet either the overall or the in-major GPA, you will be placed on probation in the major. You must meet the above GPAs by the end of the probationary semester to continue in the major. Only one probationary semester is allowed.
6. All courses taken in the major are used in determining the in-major GPA, regardless of a declaration of academic bankruptcy.
7. All college and university coursework will be used for any program decision, including the professional education program, enrollment in upper division courses, and graduation. You may petition the Communicative Disorders Academic Programs Committee for exception.

Master of Science Degree in Communicative Disorders

Is described in the **Graduate** section of this catalog.

Center for Communicative Disorders

Cynthia Forster, Clinical Director
Room 001, College of Professional Studies Building
Phone: 715-346-3667
E-mail: commdis@uwsp.edu

The Center for Communicative Disorders offers speech, language, and hearing diagnostic and therapeutic services to university students. Contact the center (weekdays from 7:45 a.m. to 4:30 p.m.) for personal assistance with your speech and/or hearing problems.

The diagnosis and treatment of speech, language, and hearing disorders are also extended to the people of Wisconsin. Some of the problems encountered in the center are stuttering, articulation defects, cerebral palsy, cleft palate, voice disorders, hearing problems, language disorders, and aphasia.

The center, in conjunction with its educational program, provides practicum experience for students majoring in communicative disorders.

Courses in Communicative Disorders

COMD 108. Introduction to Communicative Disorders. 3 cr. Overview of normal speech, language, and hearing processes; survey of disorders of communication and the profession of communicative disorders.

COMD 160. Phonetics (formerly 260). 3 cr. Analysis of speech production using the international phonetic alphabet. Review phonetic principles as foundation for understanding normal speech production and speech differences with application of these principles to speech-language pathology and audiology. Prereq: 108 or con reg, cons instr.

COMD 264. Anatomy and Physiology of Speech and Language. 3 cr. Functional anatomy and physiology of articulatory, phonatory, respiratory and central and peripheral nervous systems for human communication; embryological derivation of the orofacial complex. Prereq: 108 or con reg, so st.

COMD 266. Normal Language Development. 3 cr. Introduction to normal language development in children from birth through school age with focus on processes of cognitive support for language learning, a functional model of language, and language differences in young children. Prereq: So st.

COMD 267. Normal Development Lab. 1 cr. Prepracticum experience to become familiar with typical language behavior of preschool children. Prereq: 266 or con reg.

COMD 342. Basic Manual Communication. 2 cr. Instruction and practice in the presentation of English through the use of manual signs and fingerspelling. Prereq: Cons instr.

70 Communicative Disorders

COMD 345. Phonological/Articulation Development and Disorders.

3 cr. Normal acquisition of articulation and phonology. Review of underlying processes of normal articulation and phonology as a foundation for understanding basic theories and principles used to diagnose and treat children with articulation and phonological disorders. Prereq: 108, 160, 264, 266, 267.

COMD 351. Audiometry. 4 cr. Nature and measurement of hearing; audiometric procedures and review of specialized tests. 3 hrs lec, 2 hrs lab per wk. Prereq: 108, 160, 264, 266, 267.

COMD 352. Audiological (Re)Habilitation. 3 cr. Methods and procedures used in visual, auditory, speech, and language programming for the hearing impaired. Prereq: 351.

COMD 360. Clinical Procedures. 3 cr. Principles of assessment and intervention methods for clinical management; interviewing techniques, overview of clinical documentation. Prereq: 345, 366.

COMD 366. Language Impairments in Young Children. 3 cr. Functional approaches to management of language impaired children between birth and five years of age, including cultural differences. Prereq: 160.

COMD 367/567. Language Programming in Educational Settings. 3 cr. Introduction to normal language development as a foundation of understanding language delays and disorders, including the impact of hearing loss, cultural variables, dialects, English as a second language, and disorders related to learning, emotional and cognitive disabilities. Prereq: Admission to Professional Educ Prog for spec ed students; or junior or senior standing in COMD.

COMD 407. Introduction to Speech and Hearing Science. 3 cr. Acoustic and physiologic elements of speech production and perception; laboratory assessment.

COMD 451. Hearing Science (formerly 251). 3 cr. Measurement of sound; anatomy and physiology of the hearing mechanism; introduction to psychoacoustics. Prereq: 108, Math 100, sr st, cons instr.

COMD 490. Senior Seminar. 1-3 cr. Study speech-language pathology and audiology topics in seminar format. Content will vary. Prereq: Sr st, cons instr.

COMD 495. Clinical Practicum. 2 cr. Clinical management of clients with articulation and language disorders including clinical report writing. Two enrollment periods (4 cr) required. Prereq: 360 and 25 hrs supervised observation.

COMD 499. Special Work. Upperclass communicative disorders majors may arrange for independent study with cons chair. Credit based on scope of project.

COMD 710. Research Methods in Communicative Disorders. 3 cr. Critical analysis of research in your interest area in speech-language pathology and audiology including theoretical support, research design, statistical levels of measurement, methods of reporting research results, and drawing conclusions from the results. Prereq: Cons instr.

COMD 711. Clinical and Instrumental Measurement of Speech. 3 cr. Contemporary clinical and instrumental assessment procedures for disorders of respiration, phonation, resonance and articulation. Treatment strategies using physiologic and acoustic instrumentation to manage phonation and speech disorders. Prereq: Cons instr.

COMD 713. Diagnostic Processes. 3 cr. Theoretical and clinical framework for speech and language assessments with a focus on clinical problem solving, including pre-assessment information, assessment, interpretation, and documentation across settings and populations. Prereq: Cons instr.

COMD 715. Gross Anatomy of the Head and Neck. 2 cr. Gross human anatomy for human communication; dissections of the head and neck to view the structural relationships of the mechanisms. Prereq: Cons instr.

COMD 721. Neurophysiology of Hearing and Balance. 3 cr. Anatomy, physiology, and embryology of the central and peripheral auditory and vestibular systems. Prereq: Cons instr.

COMD 722. Acoustics and Psychoacoustics. 3 cr. Psychological, acoustic, and bioacoustic aspects of hearing. Prereq: Cons instr.

COMD 723. Fluency Disorders. 3 cr. Research related to causes, onset, development, and maintenance of stuttering and other speech fluency disorders. Assessment and treatment of preschoolers, school-age children, adolescents, and adults. Prereq: Cons instr.

COMD 724. Neuromotor Disorders. 3 cr. Critical issues in the assessment and management of motor speech disorders in children,

adolescents and adults. Multidisciplinary aspects of treatment associated with dysarthria, apraxia and other developmental and acquired neuromotor disorders. Prereq: Cons instr.

COMD 735. Language Disorders: School Age Through Elderly. 3 cr. Information processing, memory, discourse, narratives, nonliteral language problem solving, and word finding difficulties. How problems negatively affect academic skills, reading, writing and social effectiveness. Assessment and intervention techniques used to support these individuals across academic and social environments. Normal aging process and how aging affects the language system. Prereq: Cons instr.

COMD 738. Infants and Young Children at Risk. 3 cr. Identification, assessment and intervention procedures for children from birth to five years of age. Prenatal, perinatal, and postnatal risk factors, management, and role of interdisciplinary team in early development of these children. Prereq: Cons instr.

COMD 740. Acquired Communication Disorders of Adults. 3 cr. Acquired communication disorders of adults including aphasia, right hemisphere lesions, head injury, and dementia; evaluation, differential diagnosis, and management procedures. Prereq: Cons instr.

COMD 742. Seminar in PDD/Autism. 1 cr. Assessment and intervention approaches based on current theoretical perspectives of pervasive developmental disorder/autism to enhance communication and socialization abilities of this population. Prereq: Cons instr.

COMD 745. Advanced Study in Phonological Disorders. 2 cr. Review contemporary issues related to articulation and phonology. Assessment and treatment strategies for clinically and culturally diverse child and adult populations. Prereq: 345 or equiv.

COMD 746. Dysphagia. 3 cr. Normal swallowing function as a foundation for exploring contemporary issues in the clinical and instrumental assessment of swallowing disorders in infants, children and adults. Management procedures for swallowing disorders across the lifespan emphasizing multidisciplinary aspects of treatment. Prereq: Cons instr.

COMD 751. Clinical Assessment of Hearing I. 4 cr. Basic theory, principles, and techniques underlying the initial assessment of auditory function, including immitance, pure tone, and speech audiometry. Prereq: Cons instr.

COMD 752. Clinical Assessment of Hearing II. 3 cr. Advanced audiological procedures including classical site of lesion tests, testing of infants and children, and assessment of central auditory processing. Prereq: 751 and cons instr.

COMD 755. Pathologies of the Auditory and Vestibular Systems. 3 cr. Comprehensive study of auditory and vestibular systems disorders. Prereq: 721 and cons instr.

COMD 756. Audiology for Speech/Language Pathologists. 2 cr. Review anatomy/physiology of hearing mechanism, causes of hearing loss, and diagnosis; methods for hearing screening with clinical practice and overview of aural rehabilitation. Prereq: Cons instr.

COMD 758. Balance System Assessment. 3 cr. Brief review of anatomy and physiology of balance; in-depth study of electronystagmography examination with practical experience; review of balance disorders; rehabilitation methodology; study of rotational testing and posturography. Prereq: Cons instr.

COMD 760. Amplification. 3 cr. Hearing aid measurement, selection procedures, and hearing aid orientation. Prereq: 713 and cons instr.

COMD 761. Hearing Aid Dispensing. 3 cr. Advanced study of amplification and topics related to hearing aid dispensing. Prereq: 760 and cons instr.

COMD 763. Aural Rehabilitation. 3 cr. Intervention programs and techniques; counseling strategies used with hearing impaired children and adults. Prereq: Cons instr.

COMD 765. Augmentative and Alternative Communication. 3 cr. A lifespan approach in the assessment, intervention, and management of individuals who are nonspeaking because of developmental, motor, or acquired disabilities; determining and developing different communication opportunities supported by a multimodal communication approach incorporating both low and high technological approaches. Lab experiences include various voice output systems and different assistive technology computer software. Prereq: Cons instr.

COMD 766. Electrophysiological Assessment of the Auditory System. 3 cr. Review of auditory system anatomy and physiology; study and practice in eliciting short, middle, and long latency

potentials as a means of assessing auditory system function; applications to assessment of infants and persons with hearing loss. Prereq: 721 and cons instr.

COMD 784. Disorders of Phonation. 2 cr. Classification, differential diagnosis, assessment, treatment, and prevention of vocal dysfunction across the lifespan. Prereq: Cons instr.

COMD 786. Maxillofacial Disorders. 1 cr. Causes and embryology of oral-facial anomalies. Multidisciplinary assessment and management of speech-language development and habilitation. Prereq: Cons instr.

COMD 788. Laryngectomy and Alaryngeal Voice Management. 1 cr. Causes of laryngeal cancer; medical management of malignant tumors of the larynx; rehabilitation of laryngectomees. Prereq: Cons instr.

COMD 790. Seminar in Communicative Disorders. 1-3 cr. Content varies. Seminar format to study topics associated with speech-language pathology and audiology. Prereq: Cons instr.

COMD 791. Graduate Practicum - Critical Issues I. 2 cr. Evaluation and management of persons with communicative disorders in the Center for Communicative Disorders and selected off-campus facilities. Includes counseling clients and their families, collaboration with other professionals, and supervision. Prereq: Cons instr.

COMD 792. Graduate Practicum - Critical Issues II. 2 cr. Evaluation and management of persons with communicative disorders in the Center for Communicative Disorders and selected off-campus facilities. Includes multicultural populations. Prereq: Cons instr.

COMD 793. Graduate Practicum - Critical Issues III. 2 cr. Evaluation and management of persons with communicative disorders in the Center for Communicative Disorders and selected off-campus facilities. Includes medical settings. Prereq: Cons instr.

COMD 794. Graduate Practicum - Critical Issues IV. 2 cr. Evaluation and management of persons with communicative disorders in the Center for Communicative Disorders and selected off-campus facilities. Includes educational settings, professional organizations, certification and licenses. Prereq: Cons instr.

COMD 795. Clinical Semester. 15 cr. Fifteen-week full-time clinical externship in education or noneducational professional settings. Prereq: Completion of academic and practicum requirements.

COMD 796. Independent Study. 1-3 cr. Prereq: Cons instr.

COMD 797. Workshop. 1-6 cr. Individual and/or group projects that expand the graduate program course content. May repeat for credit with different content. Prereq: Cons instr.

COMD 798. Externship for Practicing Clinicians. 6-15 cr. Externship for practicing speech-language pathologists and audiologists with Master of Science or Arts degree in communication disorders holding a Certificate of Clinical Competence from ASHA, and who wish to complete the clinical requirements established by the Wisconsin Dept of Public Instruction for certification. Consists of a minimum of 6 weeks in an educational setting. Prereq: Academic requirements for DPI license and permission of Academic Programs Committee.

COMD 799. Thesis. 2-6 cr.

Communicative Disorders Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

- 353/553 Conversational Sign Language, 2 cr, (97-99)
- 749 Total Communication, 3 cr, (87-89)
- 766 Problems of the Deaf and Hearing Impaired, 2 cr, (87-89)
- 768 Counseling in Communicative Disorders, 3 cr, (89-91)
- 771 Speech Pathology Serv in Noneduc Settings, 3 cr, (87-89)
- 780 Communicative Disorders in Children, 3 cr, (89-91)
- 782 Administrative Aspects of Com Disorders, 3 cr, (87-89)
- 790 Externship, 6 cr, (87-89)

COMMUNITY DEVELOPMENT AND REGIONAL ANALYSIS

See **Geography**.

COMMUNITY NUTRITION

See **Health Promotion and Human Development**.

Comparative Literature (College of Letters and Science)

Richard Ruppel, Coordinator
 Room 490, Collins Classroom Center
 Phone: 715-346-3036
 E-mail: forlang@uwsp.edu OR rruppel@uwsp.edu

Comparative Literature Minor

1. Comparative Literature 101 and 102.
2. Six credits in advanced literature courses read in a language other than your native language.
3. Comparative Literature 399.
4. Additional courses in comparative literature and English to total 21 credits, as follows:
 - a. At least 12 credits in comparative literature courses.
 - b. Additional credits selected from English 310, 312, 319, 361, 362, 380.

Test-Out and Credit-by-Exam Policy

You may apply for test-out or credit-by-exam for comparative literature courses which carry general degree requirement (GDR) credit. The instructor who most recently offered the course will prepare a comprehensive written exam on the material covered in the course and will administer and grade the exam. If you receive a B- or better on the written exam you may test-out of the GDR requirement. To be eligible for credit-by-exam you must receive a grade of B or higher on the written exam, earn a grade of B or higher on an 8-10 page paper on a literary topic covered in the course, and receive the positive recommendation of the department. A maximum of 6 credits earned from credit-by-exam may count toward the comparative literature minor.

Courses in Comparative Literature

CLT 101. Masterpieces of the Western World. 3 cr. Comparative study of themes and literary traditions in literature of the Western World from Homer to Montaigne. GDR:HU2

CLT 102. Masterpieces of the Western World. 3 cr. Comparative study of themes and literary traditions in literature of the Western World from Milton to Mann. GDR:HU2

CLT 243. Spanish American Literature in Translation. 3 cr. Selected readings. Subtitle will indicate focus. May repeat for credit under different subtitles.

CLT 324. Literature and the Arts. 3 cr. Comparative study of literature and its relationship to one or more art forms (film, sculpture, painting, music, etc.) to determine esthetic purpose and relationships between them. Subtitle will designate topic.

Comparative Literature Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

- 231 Survey of Dramatic Literature: Tragedy, 3 cr, (83-85)
- 232 Survey of Dramatic Literature: Comedy, 3 cr, (83-85)
- 240 Literature of the Bible, 3 cr, (83-85)
- 250 Asian Literature, 3 cr, (83-85)
- 251 The Fiction of Asia, 3 cr, (83-85)
- 252 The Drama of Asia, 3 cr, (83-85)
- 253 The Poetry of Asia, 3 cr, (83-85)
- 300 Classical Poetry, 3 cr, (83-85)
- 301 Classical Prose, 3 cr, (83-85)
- 302 Medieval Literature in Translation, 3 cr, (83-85)
- 303 Literature of the Renaissance, 3 cr, (83-85)
- 317 Novel before 1850, 3 cr, (01-03)
- 350/550 Special Problems, 2-3 cr, (87-89)
- 399 Special Work, (01-03)

Computer Information Systems

(College of Letters and Science)

James Gifford, Chair of Mathematics and Computing
and Coordinator of Instructional Computing

Room B-246, Science Building

Phone: 715-346-2120

E-mail: mathcis@uwsp.edu

Web: www.uwsp.edu/cis

Faculty: J Carter, R Dollinger, G Gau, D Gibbs, J Gifford, D Goulet, S Madison, L Schoch, S Zuge.

Definition: Computer Information Systems (CIS) involves the design and maintenance of information systems that enable organizations to gather, process, store, and use information for planning, control, and operations. Emphasis is placed on the analysis, configuration, programming, security, and database aspects of the design and implementation of a computerized business information system.

The program and courses in **computer information systems** are administered by the Department of Mathematics and Computing.

Computer Information Systems Major (CIS)

Consists of at least 49 credits. NOTE: Courses used to complete requirements for the major cannot be used to complete an option.

1. Computer Information Systems (CIS) 115, 116, 210, 211, 219, 313, 323, 330, 332 or 336, 358, 480 and one additional 300 level CIS course excluding CIS 300, 395, 397, 499.
2. Math 109 or 120, and Math 209.
3. Elective options: In addition, you may complete one of the transcriptable options below:
 - a. **Business option:** CIS 329, 332, 345 (COBOL), and Accounting 210, Econ 210, Business 380.
 - b. **Web site development option:** CIS 336, 345 (Java), Web and Digital Media Development (WDMD) 101, 270, 271, 306.
 - c. **Networking and information assurance option:** CIS 324, 362, 364, 366, 368; Math 310.

NOTES:

1. A 499 course can be added as an elective only with the prior approval of the department chair.
2. Availability of CIS courses is limited in any semester.

Admission/Academic Standards for the CIS Major

1. If you declare CIS as your major, you are a "premajor" until you apply and are accepted into the major. Applications are processed in September and February each year. You must apply no later than the second semester of your sophomore year. Exceptions may be granted.
2. Before you can apply for admission to the CIS major, you must complete the core requirements of CIS 115, 116, 210, 211, and Math 109 or 120. You must have a GPA in these courses of at least 2.5, including transfer credits, and regardless of any declaration of academic bankruptcy.

3. We rank applicants by overall GPA and accept the top 30-40 each semester. The actual number admitted is based on available teaching resources.
4. You may apply for admission to the CIS major twice.
5. You may repeat a course in the major only if you follow the policy on repeating courses found in the **More Academic Information** section of this catalog. If you repeat a course, only the most recent grade counts for the GPA.
6. CIS and Math courses taken pass/fail do not count for the major.
7. You may petition the department chair to accept coursework done at other institutions, but no more than one-half the CIS credits applied to your major may be earned outside UWSP. The department chair may allow modifications to this rule.
8. To maintain admitted status, you must maintain GPA of at least 2.5 in all courses taken at UWSP that count for the CIS major.
9. If you do not maintain a GPA of at least 2.5 in all courses taken at UWSP that count for the CIS major, you will be placed on CIS probation and will have one semester to restore your GPA. If you fail to do so, you will be dropped from the major and will only be allowed to register for courses required to complete the CIS minor.
10. If you are not admitted to the CIS major, you may only register for CIS 219, 313 and one additional 300 level CIS course beyond the core requirements. This will allow you to complete the CIS minor.
11. Admission to CIS classes is limited in any semester and may be determined in part by your CIS GPA.

Computer Information Systems Minor

Consists of at least 23 credits: CIS 115, 116, 210, 211, 219, 313, and one additional 300 level CIS course excluding CIS 300, 395, 397, 499.

Academic Standards for CIS Minor

1. To minor in CIS, declare your intention no later than the second semester of your sophomore year.
2. Have no more than one grade below C- in any CIS course. If you repeat a course, the most recent grade counts. CIS courses taken pass/fail do not count toward the minor.
3. Have a minimum 2.25 GPA in all CIS courses, regardless of any declaration of academic bankruptcy.
4. You may petition the department for exceptions.

Computer Science Minor for Teacher Certification (Secondary/Middle)

Consists of 24 credits:

1. CIS 115, 116, 210, 211, 219, 330, and 345 (Java).
2. Required collateral mathematics major for secondary teacher certification.
3. Demonstrate competency in word processing and spreadsheet through examination or by successfully completing CIS 102 (word processing/spreadsheet).
4. **Teacher Certification:** Enrollment caps are in effect for those seeking teacher certification. Please contact your department early for entrance requirements and application procedures. Also see information about the Professional Education program and the secondary education curriculum for teacher certification in the **Education** section of this catalog.
5. **Academic Standards:** Same as CIS minor above.

Test-Out and Credit-by-Exam Policy

You may receive credit-by-exam if you have taken the APCS (Advanced Placement Computer Science) exam. If you have a score of 3 or higher, you will receive credit for CIS 210. If you have not taken the APCS exam but have significant programming experience, you may be placed into CIS 211 at the discretion of the department chair. If you receive a grade of B or higher in 211, you will then receive retroactive credit in 210.

Courses in Computer Information Systems (CIS)

(I = first semester; II = second semester.)

CIS 101. Introduction to Computing. 2 cr. Survey hardware, software, applications, social implications, campus computing environment. (I, II)

CIS 102. Practicum in Computing. 1 cr. Subtitle added for each section offered. May repeat for credit under different subtitles. (I, II)

CIS 115. Introduction to Information Systems. 3 cr. Information needs of various organizations. Methods used to analyze, design, and implement information systems for organizations. Career opportunities; issues in information security, ethics, and privacy; experience with a programming language and communication tools such as the Internet and e-mail. Prereq: Con reg in 116.

CIS 116. Introduction to Information Management. 1 cr. Examine concepts of information storage, retrieval, and reporting using contemporary information management software. Prereq: Con reg in 115.

CIS 195/395. Seminar in Computing. 1-3 cr. Seminar in computing and computer applications for CIS majors or minors. May include guest lectures and student presentations. Subtitle will indicate topic and credits. May repeat for credit under different subtitles. Does not count for CIS major or minor. Prereq: Cons instr.

CIS 205. Computer Programming and Applications for Paper Science. 4 cr. Problem solving, algorithm development, and computer programming using a block-structured language; how to design, code, debug, and document programs. Paper science applications using spreadsheets and databases. Prereq: Paper science major or cons math and computing chair.

CIS 210. Introduction to Programming I. 4 cr. Problem solving, algorithm development, and computer programming using a block-structured language; design, code, debug, and document programs; introduction to files and arrays. Prereq: 115/116 and Math 100 or con reg; or cons chair.

CIS 211. Introduction to Programming II. 4 cr. Continuation of 210. Principles of data structures and object-oriented programming. Topics such as classes, objects, polymorphism, inheritance, exception handling, function templates, sequential and random files, and multi-dimensional arrays. Prereq: 210.

CIS 219. Database Design and Implementation. 4 cr. Analyze and design databases to support computer-based information systems. Develop and program relational database management systems using SQL. Prereq: 211.

CIS 300. Living in the Information Age. 3 cr. Outline of technological developments occurring in information access and storage. Effects the information revolution is having on everyday life, professions, privacy, security, automation, law, government and employment. Does not count for CIS major or minor.

CIS 313. Production Programming. 4 cr. Detailed study of syntax and logic of the language. Apply a programming language to professional situations. Individual and team projects. Subtitle will indicate language. May repeat for credit under different subtitles. Prereq: 211.

CIS 323. Systems Analysis and Design. 4 cr. Analyze and design a software system using structured and object tools with the systems development life cycle as the framework. Activities done in context of a semester-long systems application case study. Prereq: 219, English 102 or 150, Communication 101 or cons chair.

CIS 324. LINUX Operating System. 3 cr. Introduction to the LINUX operating system, including commands, utilities, shell programming, system administration, networking and Internet server capabilities. Prereq: 330.

CIS 329. Advanced Database Applications. 3 cr. Define, design and construct an enterprise data warehouse. Techniques and algorithms

for extracting useful information, such as OLAP, data mining, creation of datamarts. Examine performance considerations. Prereq: 323.

CIS 330. Computer and Network Architecture. 4 cr. Introduction to personal computer architecture including hands-on assembly of hardware components. Examine network concepts and implement LAN's using various network operating system platforms. Prereq: 211 or learning technologies minor or WDMC major.

CIS 332. Client/Server Computing. 3 cr. Analyze the distribution of computing functions among networked computers. Coordinate roles and functions of front-end clients, network operating systems, and back-end servers. Design and implement systems to operate on client/server platforms. Prereq: 219, 313, 330.

CIS 336. Interactive Web Programming. 3 cr. Examine relationship between Web servers and Web clients. Create interactive Web pages with server-side and client-side script. Pass information between pages. Storage/retrieval of information to/from a database. Prereq: 219, 313, 330.

CIS 345. Alternate Programming Language. 4 cr. Examine an alternate programming language with emphasis on language structure. Subtitle will indicate language. May repeat for credit under different subtitles. Prereq: 211.

CIS 346. Contemporary Topics in Computing. 3 cr. Examine contemporary and emerging topics in computing. Subtitle will indicate topic. May repeat for credit under different subtitles. Prereq: Jr st.

CIS 358. Systems Documentation. 3 cr. Instruction and practice in writing technical reports, feasibility studies, and user documentation. Prereq: 323.

CIS 362. Data Communication. 4 cr. Physical basis for communication; modulation techniques; synchronous and asynchronous transmission; analog and digital signaling; multiplexing; communication hardware and software; networks and protocols; routing algorithms; error detection and correction. Prereq: 330.

CIS 364. Network Management. 4 cr. Basic concepts of local and wide area networks; network topologies; analysis of network needs; network security, installation and growth. Prereq: 330.

CIS 366. Information and Network Security. 4 cr. Introduction to information and network security issues. Characteristics of information security; security law and ethics; risk assessment; operations security; cryptography. Explore security vulnerabilities, security measures, and security tools such as firewalls, tcp wrappers, tripwires. Prereq: 330.

CIS 368 Secure Server Administration. 3 cr. Apply techniques for secure deployment of network services such as DHCP, DNS, SMTP, SSH, HTTP, HTTPS, printing and file sharing. Examine techniques for assuring security of services in an environment of heterogeneous operating systems, including server lockdown techniques and use of secure protocols. Complete hands-on projects. Prereq: 330 and 324 or con reg in 324.

CIS 370/570 Computer Applications for Teachers. 1-3 cr. Examine use of computer software in a class. Integrate software into units of instruction. Develop implementation strategy that includes hardware/software acquisition and student access. Subtitle will indicate type of software. May repeat for credit under different subtitles. Does not count for CIS major or minor.

CIS 371/571. Microcomputer Operation for Teachers. 1 cr. Examine a microcomputer, its capabilities and limitations; survey existing software. Subtitle will indicate type of computer. May repeat for credit under different subtitles. Does not count for CIS major or minor.

CIS 373/573. Productivity Software for Teachers. 1-3 cr. Examine a productivity software package including a variety of applications. Subtitle will indicate type of computers and/or software such as word processing, spreadsheet or database. May repeat for credit under different subtitles. Does not count for CIS major or minor.

CIS 374/574. Internet Applications for Teachers. 1-3 cr. Examine Internet concepts, search engines, downloading, organization of Internet resources; Web site design, development and implementation. Subtitle will indicate Web site development tool or application focus. May repeat for credit under different subtitles. Does not count for CIS major or minor.

CIS 375/575. Introduction to Programming for Teachers. 1-3 cr. Problem solving, algorithm development, and computer programming. Design, code, debug, and document programs. Subtitle will indicate programming language. May repeat for credit under different subtitles. Does not count for CIS major or minor.

74 Computer Information Systems

CIS 395. (see CIS 195)

CIS 397. Internship in Computing. 3 or 6 cr. Participate in supervised training work program that you arrange with your adviser at a cooperating organization. Credit set by adviser and chair. May repeat for 6 cr max. Prereq: Jr st and cons chair.

CIS 480. Applied Software Development Project. 4 cr. Apply computer programming and system development concepts, principles, and practices to a comprehensive system development project; use team approach to analyze, design and document realistic systems of moderate complexity; use project management methods, project scheduling and control techniques; use formal presentations and group dynamics to solve information systems problems; develop a database to support the system. Prereq: 332 or 336; 358 and sr st.

CIS 499. Special Work. Upperclass CIS students may arrange for independent study with cons chair. Credit based on scope of project.

Computer Information Systems Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

- 105 Intro to Campus Computing Facilities, 1 cr, (95-97)
- 112 Introduction to FORTRAN Programming, 3 cr, (95-97)
- 113 Introduction to COBOL Programming, 3 cr, (95-97)
- 230 Computer Organiz and Assembly Language, 3 cr, (95-97)
- 305 Operating Systems, 3 cr, (97-99)
- 312 Advanced Programming: FORTRAN, 4 cr, (95-97)
- 314 C Programming Language, 4 cr, (95-97)
- 335 Computers, Data Processing, and the Law, 3 cr, (95-97)
- 340 Artificial Intelligence, 3 cr, (97-99)
- 351 Modeling and Simulation, 3 cr, (97-99)
- 352 Decision Support Systems, 3 cr, (95-97)
- 365 Computer Graphics, 3 cr, (95-97)
- 380 Adv Programming/Software for Teachers, 1-3 cr, (99-01)
- 390/590 Special Topics, 103 cr, (01-03)

Courses in Computer Science Education

CSED 398. Student Teaching in Computer Science. 4-16 cr; pass/fail. Observation and teaching in secondary school classrooms under the guidance of cooperating teachers and university faculty.

Computer Science Education Latent Course: Not offered recently. Full description in (xx-xx) catalog.

- 334 Techniques in Secondary Ed: Computer Sci, 3 cr, (99-01)

COMPUTER SCIENCE

See **Computer Information Systems.**

CONSERVATION BIOLOGY

See **Natural Resources.**

Cooperative Education

Career Services Office
Room 134, Main Building
Phone: 715-346-3226
E-mail: career@uwsp.edu

In the cooperative education program you can gain one to five years experience in work related to your academic major or career goals. All UWSP students are eligible.

As a co-op student, you must register for your work periods, but you receive no academic credit. Registration means that a record of the work experience will be entered on your permanent record.

Courses in Cooperative Education

COOP 001. First Work Period. 0 cr. Prereq: Approval by the coordinator's office and acceptance by the employing organization.

COOP 002. Second Work Period. 0 cr. Prereq: Satisfactory completion of 001; see statement under 001.

COOP 003. Third Work Period. 0 cr. Prereq: Satisfactory completion of 002; see statement under 001.

COOP 004. Fourth Work Period. 0 cr. Prereq: Satisfactory completion of 003; see statement under 001.

COOP 005. Fifth Work Period. 0 cr. Prereq: Satisfactory completion of 004; see statement under 001.

CULTURE STUDIES

See **Foreign Languages** and **International Studies.**

CYTOTECHNOLOGY

See **Clinical Laboratory Science.**

DANCE

See **Theatre and Dance.**

DIETETICS

See **Health Promotion and Human Development.**

DIGITAL MEDIA/WEB DEVELOPMENT

See **Web & Digital Media Development,** and **Art & Design.**

DRAMA

See **Theatre and Dance.**

EARLY CHILDHOOD EDUCATION

See **Education.**

Earth Science

(College of Letters and Science)

Benjamin Ofori-Amoah, Coordinator
Room D-332, Science Building
Phone: 715-346-2629
E-mail: geoggeol@uwsp.edu
Web: www.uwsp.edu/geo

Also see the **earth science option** of the Natural Science major later in the catalog.

Earth Science Minor

Is administered by the Department of Geography and Geology and consists of 22 credits:

1. Geography 101, Geology 104, 106.
2. At least one course from each of the following groups:
 - a. Geography/Geology 352, Geography 353.
 - b. Geology 200, 320, 330, 370, 383.
3. Additional credits either from groups 2.a. and 2.b. above; or from the following to total 22 credits: Geography 393 (max 3 cr), 395 (for earth science topics); Geology 393 (max 3 cr), 395; Astronomy 311.

NOTES:

1. You may use no more than three total field experience credits (Geology 393 or Geography 393) to satisfy the earth science minor requirements.
2. If you want teacher certification in earth science, you must include Astronomy 311, and at least two field experience credits in Geography 393 and/or Geology 393.

Academic Standards

1. To be admitted, retained, and approved for graduation as an approved earth science minor, you must have a minimum cumulative grade point average of 2.50 (2.75 to student teach in earth science) for all courses taken within the minor, including collateral courses and regardless of declaration of academic bankruptcy.
 - a. You must complete Geography 101 or Geology 104 before you declare your minor.
 - b. If you transfer and have no credits earned at UWSP in the minor, you will be a provisional minor until you complete the minimum requirements.
 - c. If you do not meet the minimum requirements, you must have written approval of the department chair to be a provisional minor.

- d. You will be admitted as an approved minor once you meet the minimum requirements.
- If you do not maintain a 2.50 GPA, you will be placed on earth science probation and will have two semesters to restore your GPA. If you fail to do so, you will be dropped from the minor. The department will attempt to notify and consult with students who are at or below a 2.50 GPA. However, it is your responsibility to know your own GPA status.
 - You may repeat a course in the minor only if you follow the policy on repeating courses found in the **More Academic Information** section of this catalog.
 - Geology, geography, and astronomy courses taken at the 300 or 400 level on a pass/fail basis do NOT count toward the minor.

ECONOMICS

See **Business and Economics**.

ECOSYSTEM RESTORATION

See **Natural Resources - Forestry**.

Education

(College of Professional Studies)

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Abbreviations:

Com Dis = Communicative Disorders

ECED = Early Childhood Education

Educ or Ed = Education

HD = Human Development

IRES = Instructional Resources

Math = Mathematics

PEP = Professional Education Program

Psych = Psychology

WLNS = Wellness

Wisconsin Teaching Standards

To receive a license to teach in Wisconsin, you must complete an approved program and demonstrate proficient performance in the knowledge, skills and dispositions under these 10 standards. As a teacher you will:

- Understand the central concepts, tools of inquiry, and structures of the disciplines you teach and can create learning experiences that make these aspects of subject matter meaningful for your students.
- Understand how children with broad ranges of ability learn and provide instruction that supports their intellectual, social, and personal development.
- Understand how students differ in their approaches to learning and the barriers that impede learning and can adapt instruction to meet the diverse needs of your students, including those with disabilities and exceptionalities.

- Understand and use a variety of instructional strategies, including the use of technology to encourage your students' development of critical thinking, problem solving, and performance skills.
- Use an understanding of individual and group motivation and behavior to create a learning environment that encourages positive social interaction, active engagement in learning, and self-motivation.
- Use effective verbal and nonverbal communication techniques as well as instructional media and technology to foster active inquiry, collaboration, and supportive interaction in the classroom.
- Organize and plan systematic instruction based on knowledge of subject matter, students, the community, and curriculum goals.
- Understand and use formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social and physical development of your students.
- Be a reflective practitioner and continually evaluate the effect of your choices and actions on your students, their parents, and professionals in the learning community and others. Also actively seek out opportunities to grow professionally.
- Foster relationships with school colleagues, parents, and agencies in the larger community to support student learning and well being, and act in an ethical manner with integrity and fairness.

PROFESSIONAL EDUCATION PROGRAM (PEP) ADMISSION PROCEDURES

If you are interested in any teacher certification program, you must officially declare your teaching intent by making an appointment with the Undergraduate Advising Office, 715-346-2040. You must also apply for admission to the Professional Education Program after you have completed 40 credits; but you must have earned 54 credits by the end of the semester in which you are applying to be fully admitted. University approved credits for Advanced Placement (AP), CLEP, and test out may apply toward the 54 credits. Applications are available from the School of Education Advising Office, Room 469 CPS Building. Applications are processed two times each year, February 22 and September 22. Applications received after the deadline will be processed during the next deadline period.

In order to enroll in Educ 200, junior and senior level early childhood, education and instructional resources courses, as well as some methods courses in other departments, you must be fully admitted to PEP.

You must have completed the following minimum criteria and have passing scores on file in the Undergraduate Advising Office to be eligible to apply for admission to PEP.

Criteria may change at any time.

- Earn a 2.75 cumulative grade point average (GPA) from all accredited institutions attended. The School of Education honors academic bankruptcy and UWSP course repeat policies at the time of admission to the PEP, but you must have a 2.75 GPA overall and a 2.75 GPA in your major, minor, concentration, and teacher certification coursework for student teaching, regardless of academic bankruptcy or GPA requirement waiver. If you declare academic bankruptcy, you must have at least a 2.75 GPA in 40 credits of courses you

- complete **after** declaring academic bankruptcy and any courses taken at other institutions.
2. Earn a 2.50 GPA in English 101 and 102 or a C or better in English 150 **-OR-**
 - a. Test out of English 101 and 102 through the department test-out exam or receive credit by examination for both courses.
 - b. Test out of one course (or receive credit by examination for it) and maintain a 2.50 GPA in the other course.
 - c. Receive a grade of B- or better in English 250.
 - d. Receive a passing score on the reading and writing portion of the Pre-Professional Skills Test (PPST) and receive grades of B or better in two writing emphasis (WE) courses.
 - e. Satisfactorily complete the required work in the Professional Writing Competency Program. (Sign up and pay fee for this program in 469 CPS.)
 3. Complete speech and hearing screening.
 4. Receive a 50 percent or better score on the Watson-Barker Listening Test. You may repeat this test if you do not receive a passing score or if you are denied entry into PEP. **Appropriate accommodations are available if you have a documented disability or English as a second language. Contact the Education Advising Office for details.**
 5. Receive scores within three points of the requirements on the PPST. (Written version requirements and computer version requirements after January 2002: Reading 175, Writing 174, Math 173. Computer version requirements prior to January 2002: Reading 322, Writing 320, Math 318.) **Appropriate accommodations are available if you have a documented disability or English as a second language. Contact the Education Advising Office for details.**
 6. If you are an early childhood education major, elementary education major, or exceptional education major, you must also complete the Pre-Professional Interview. Under extenuating circumstances you may repeat the interview with approval of the head of the School of Education.
 7. See the department of your major or minor for additional requirements and enrollment cap policies. All programs have additional requirements to apply.
 8. You must be able to prove DPI required competency in communication skills including computers and emerging technology by receiving a B- or better in Educ 205 **-OR-**
 - a. Complete CIS 102 or equiv from another university with title (1) Internet Research, (2) PowerPoint Presentations, or (3) Word Processing AND Spreadsheet.
 - b. Before admission to PEP, complete the Technology Proficiency Session. Sign up and pay fee for this program in 469 CPS.
 9. If you meet the following criteria you may apply for a waiver of either the PPST score requirements **OR** the 2.75 grade point requirements by using the formal waiver application available in the Education Advising Office. If granted, this waiver allows you to apply to PEP without meeting the requirements, although your actual scores or GPA will still be used in calculating rank. Deadlines for waiver requests are September 11 and February 7.
 - a. PPST score waiver requirements:
 - 1) Take and receive scores for PPST at least twice.
 - 2) Scores cannot exceed a six point deviation for the cut off.
 - 3) Related coursework must have grades of 3.0 or higher.
 - 4) Overall grade point average of at least 2.75 from all accredited institutions attended.
 - 5) Forty credits of instruction completed.
 - 6) Copies of the PPST results from both attempts and transcripts from all institutions.
 - 7) Letter explaining reasons for waiver request.
 - b. Grade point waiver requirements:
 - 1) Passing scores on all three parts of the PPST.
 - 2) Forty credits of instruction completed with a grade point average of at least 2.75.
 - 3) Grades that show a significant improvement over minimum of two consecutive semesters.
 - 4) Copies of the latest PPST results and transcripts from all institutions.
 - 5) Letter explaining reasons for requesting waiver.
 10. If you are not currently registered for coursework at UWSP at the time you apply to PEP, please see the special rule concerning admission requirements for transfer students below.

The Watson-Barker Listening Test, Pre-Professional Interview, speech and hearing screening, and the Technology Proficiency Sessions are offered at the beginning of every semester. A fee may be charged. The Pre-Professional Skills Test (PPST) is given through the ETS company for a fee and registration takes place at least four weeks in advance of a scheduled test. The PPST results usually take six weeks to be mailed. The Education Advising Office has information on dates, times and registration procedures for all requirements.

Transfer Student Admission Procedure

If you are a transfer student or have an undergraduate degree from an accredited institution, you may be admitted to the Professional Education Program (PEP) if you complete items 1-8 above, are admitted to UWSP, and have paid the required deposit. You must attach proof of admission to UWSP when you apply.

Enrollment Caps for PEP

Enrollment caps are in effect for all certification areas. Please see your major/minor department for more information.

If you are seeking admission to PEP and are majoring or minoring in exceptional education or majoring in elementary education or early childhood education, you will be assigned a rank based on your cumulative GPA from all accredited institutions attended, the PPST, Pre-Professional Interview, and the Watson-Barker Listening Test. Your cumulative GPA and Pre-Professional Interview will be weighted twice. You may be admitted to only one of the following majors for initial certification: early childhood, elementary education, exceptional education.

You may apply twice for admission to PEP in any one "program area." Early childhood, elementary and exceptional education are considered one program area for this rule.

You may appeal if you are denied admission to the program. You may contact the School of Education for information regarding the appeal process. The School of Education Appeals Committee will handle appeals for all certification programs. If you are not admitted, you will not be allowed to pursue teacher certification or a teaching major/minor at UWSP or register for Educ 200, junior and

senior level early childhood, education, instructional resources courses, and some methods courses.

If you do not apply to the program before you have completed 60 credits, you may be in jeopardy of taking coursework that is not necessary for an alternative program.

Block Courses

Many courses are offered in a series of "blocks." Blocks are explained on our Web site and in the **School of Education Advising Handbook** you will receive when you declare your teaching intent.

EARLY CHILDHOOD EDUCATION

Early Childhood Education Major (Early through middle childhood level: birth through 8 years old/Early Childhood Special Education)

Enrollment caps: The top 25 students who apply each year will be admitted, half each semester.

If you wish to prepare for early childhood education, you may major in early childhood education, and minor in early childhood: special education (EC:SE) that leads to regular and special education early childhood through middle childhood level certification – birth through 8 years old.

Requirements:

1. Complete the requirements for the BA or BS degree listed under the **General Degree Requirements** section of this catalog. However, note the specific courses to take under the following categories:
 - a. In the verbal and quantitative skills sequence, take English 101 and 102, or 150; Communication 101; Math 100, 338 and Math Ed 338.
 - b. In the critical thinking/natural science sequence, take 13-15 credits, including no more than one 3-credit course, and at least two 5-credit courses in these three disciplines:
 - 1) Physical science: Chemistry 100 or 101; Physics 100 or 101; Astronomy 100, 205, 206, or 311.
 - 2) Earth science: Geography 100 or 101; Geology 100.
 - 3) Life science: Biology 100 or 101.
 - c. Take 27 credits to fulfill the critical thinking/cultural awareness requirement, including one course in non-Western culture (NW) and one course in minority studies (MNS).
 - 1) History: Take History 212 and three more credits from History 120, 130, 211, *379, *382, *385, *288/388. (*These courses do not meet general degree requirements in the category listed.)
 - 2) Social Science: Take HD 261 or 265, and 367; Psych 110; Political Science 201.
 - 3) Humanities: Take 3 credits from English 211, 212, 213, or 214; and 3 credits from Humanities Area 1.
 - d. Take Natural Resources 370 to fulfill UWSP's environmental literacy requirement and DPI's environmental education requirement.
 - e. Take Physical Ed 231 to fulfill part of the wellness requirement. WLNS 123 will complete the wellness requirement. (If you have completed both First Aid training and CPR through the Red Cross, you may be waived from WLNS 123, but will still need to complete the wellness requirement.)

After you have completed 40 credits, apply for admission to the Professional Education Program. For a list of the admission criteria, see that section above.

2. Take 34 credits of professional education: ECED 262, 460; Educ 200, 205, 300, 351, 381; HD 466; IRES 331; and 13 credits of combination Educ 398, 400 and ECED 398.
3. Take 23 credits of education methods: ECED 366, 368; Educ 302, 309, 310, 324, 325; HD 360.
4. Take 10 credits of related professional subject matter: Com Dis 266; English 274; Math 228/Math Ed 228.
5. Complete the Teacher of Students with Early Childhood Special Education (ECSE) minor including Educ 365, 366, 367, 398. Other requirements for this minor are met within the early childhood ed major.
6. Achieve a 2.75 overall GPA as well as a 2.75 GPA in your major, minor, concentration, and education courses, or be in the upper half of your class before you student teach.
7. Earn a grade of "pass" or 2.0 GPA (C) or better in all areas of student teaching. You CANNOT be certified if you do not pass or if you receive a grade less than C for student teaching in your major.

ELEMENTARY EDUCATION

Elementary Education Major (BA/BS) (Middle childhood through early adolescent level. Approximate ages 6 through 12/13)

Enrollment caps: The top 50 students who apply each semester will be admitted.

1. Complete the requirements for the BA or BS degree listed under the **General Degree Requirements** section of this catalog. However, note the specific courses to take under the following categories:
 - a. In the verbal and quantitative skills sequence, take English 101 and 102, or 150; Math 100 and 338 and Math Ed 338.
 - b. In the critical thinking/natural science sequence, take 13 to 15 credits, including no more than one 3-credit course, and at least two 5-credit courses in these three disciplines:
 - 1) Physical science: Chemistry 100 or 101; Physics 100 or 101; Astronomy 100, 205, 206, or 311.
 - 2) Earth science: Geography 100 or 101; Geology 100.
 - 3) Life science: Biology 100 or 101.
 - c. Take 24 credits to fulfill the critical thinking/cultural awareness requirement, including one course in non-Western culture and one course in minority studies. Social science and humanities together must equal 18 credits.
 - 1) History: Take History 212 and 3 more credits from History 120, 130, 211, *379, *382, or *385, *288/388. (*These courses do not meet general degree requirements in the categories listed.)
 - 2) Social Science, at least 9 credits including Psych 110 and 260 or HD 265; Political Science 201.
 - 3) Humanities, 6-9 credits including English 211, 212, 213, or 214.
 - d. Take Natural Resources 370 to fulfill the DPI's environmental education requirement and UWSP's environmental literacy requirement.

- e. **Wellness:** Take Physical Ed 231 and Health Ed 280 to fulfill the wellness requirement.

After you have completed 40 credits, apply for admission to the Professional Education Program. For a list of the admission criteria, see that section above.

2. Take 29 credits of professional education: Educ 200, 205, 300, 381, 383, 385, 398, 400, and IRES 331.
3. Take 20 credits in education methods: Educ 302, 309, 310, 324, 325, 351; Math Ed 228 and 345.
4. Take 17 credits of related professional subject matter: Art Ed 322, English 275, Fine Arts 116, Math 228 and 345, and Music Ed 381.
5. For ages 6-12 certification you must complete a 22-credit minor. (It does not have to be a certifiable minor.) One placement in ages 6-12 student teaching will be required. See the chart for a list of minors that were established especially to meet the needs of elementary education majors. For ages 6-13 certification you must complete a **certifiable** minor (we recommend the elementary minor) and student teach in that minor in a middle school as well as one placement at the ages 6-12 level. If you would like to teach at the middle school level, you should pursue certification for ages 6-13.
6. Take WLNS 123 or show proof of completion of First Aid and CPR training through the Red Cross.
7. Achieve a 2.75 overall GPA as well as a 2.75 GPA in your major, minor, concentration, and education courses, or be in the upper half of your class before you student teach.
8. Earn a grade of "pass" or 2.0 GPA (C) or better in all areas of student teaching. You CANNOT be certified if you do not pass or if you receive a grade less than C for student teaching in your major.
9. To graduate, see "Graduation" in the **More Academic Information** section of this catalog.

SECONDARY/K-12 EDUCATION

Secondary Education Curriculum for Teacher Certification

K-12 covers early childhood through adolescence level; approximate ages 0-21.

Secondary/Middle covers early adolescence through adolescence level; approximate ages 10-21.

If you complete a K-12 program in family and consumer education; music-choral, general, instrumental; physical education; or speech and language, you will be certified early childhood through adolescence level which covers a wide range of all ages in public schools.

Enrollment caps are in effect for all secondary/K-12 programs. See your major/minor department for enrollment cap policies and additional requirements needed to apply to PEP.

Meet the following requirements:

1. Complete the requirements for the BA, BFA, BM, or BS described in the **General Degree Requirements** section of this catalog or from another institution.
2. History: History 212 and 3 additional credits from History 120, 130, 211, *379, *382, *385, *288/388. (*These courses do not meet general degree requirements in the category listed.)
3. Complete at least one certifiable major. You can enhance your employment options with an additional certification in a minor field. For information on the

requirements for your major and minor, check with the individual departments and see the section(s) in this catalog on your field(s) of study. Note that requirements for the teaching major/minor sometimes differ from requirements for the nonteaching major/minor.

4. Take the following courses for certification:
 - a. 1) Educ 200 or dept equiv, 205, 300 or dept equiv, 351, 381, 385 (385 not required if K-12 program),
 - 2) Educ 386 (or English 381 if you are an English major or minor),
 - 3) Educ 390 (or English 355 and 356 if you are an English major or minor). Family and consumer ed, music and physical ed majors are exempt from the Educ 390 requirement.
 - 4) IRES 331 (or department equiv for English, family/ consumer ed, math, music and physical ed majors).
 - b. Teaching methods course in major, 3 credits.
 - c. Teaching methods course in your minor, if you want to be certified in your minor, 3 credits.
 - d. Student teaching, 3-16 credits. 12-16 credits are required for initial licensure. Student teaching will include Educ 400 or dept equiv. See the **Student Teaching** section below.
 - e. Political Science 201 unless your major, minor, or concentration includes the same coursework (Poli Sci 101 and 242).
 - f. 1) Science majors and minors take Natural Resources 370.
 - 2) Social science majors and minors take Econ 210 or 272 and Natural Resources 370 (except psychology majors who do not major or minor in another social science field).
 - g. One fine arts course.
 - h. One humanities course must be literature.
 - i. Among science electives, you must take one biological and one physical science.
5. Achieve a 2.75 overall GPA as well as a 2.75 GPA in your major, minor, concentration, and teacher certification courses, or be in the upper half of your class before you student teach.
6. Earn a grade of "pass" or 2.0 GPA (C) or better in all areas of student teaching. You CANNOT be certified if you do not pass or if you receive a grade less than C for student teaching in your major.
7. To graduate, see "Graduation" in the **More Academic Information** section of this catalog.

Certification in Communicative Disorders

In this sequence you work in a public school with students of all ages (preschool through high school). You receive certification when you complete your master's degree. For further information, see the section entitled **Communicative Disorders** under **Courses of Instruction**.

EXCEPTIONAL EDUCATION

Exceptional Education Major (BS)

Enrollment caps: The top 25 students who apply each year will be admitted (half each semester). When you meet the School of Education guidelines for admission to the Professional Education Program (PEP), you will apply for:

- A. One specialization in special education certification in middle childhood through adolescence level-special education (approx ages 6-21).
- B. Or two specializations for certification in either middle childhood through early adolescence level-special

education (approx ages 6-13) **OR** early adolescence through adolescence level-special education (approx ages 10-21).

- C. If you seek additional certification, you will take the additional student teaching after graduation.

Requirements:

1. Complete the requirements for the BS degree listed under the **General Degree Requirements** section of this catalog. However, note the specific courses to take under the following categories:
 - a. In the verbal and quantitative skills sequence, take English 101 and 102 or 150; Math 100, 338 and Math Ed 338.
 - b. In the critical thinking/natural science sequence, take 13 to 15 credits, including no more than one 3-credit course, and at least two 5-credit courses in these three disciplines:
 - 1) Physical science: Chemistry 100 or 101; Physics 100 or 101; Astronomy 100, 205, 206, or 311.
 - 2) Earth science: Geography 100 or 101; Geology 100.
 - 3) Life science: Biology 100 or 101.
 - c. Take 24 credits to fulfill the critical thinking/cultural awareness requirement, including one course in non-Western culture and one course in minority studies. Social science and humanities together must equal 18 credits.
 - 1) History: Take History 212 and 3 more credits from History 211, *379, *382, *385, *288/388. (*These courses do not meet general degree requirements in the categories listed.)
 - 2) Social Science: Take at least 9 credits, including Psych 110 and 260, HD 261 or 265; Political Science 201 or 101 and 242.
 - 3) Humanities: Take 6-9 credits, including at least one of English 211, 212, 213, or 214 and one in Humanities Area 1.
 - d. Take Natural Resources 370 to fulfill UWSP's environmental literacy requirement and the DPI's environmental education requirement.

After you have completed 40 credits, apply for admission to the Professional Education Program. For a list of the admission criteria, see that section above.

2. **Professional Education**, 28 cr: Educ 200, 205, 300, 302, 309, 310, 314, 381, 383, 400; IRES 331; Math 228 and Math Ed 228.
3. **Exceptional Education**, 21 credits: Educ 351, 356, 362, 368, 378, 397; Com Dis 367.
4. **Specialization**: Choose one or two teaching specializations to complete the major.
 - a. **Emotional Disabilities**, 12-18 credits: Educ 364, 369, 398.
 - b. **Learning Disabilities**, 12-18 credits: Educ 364, 369, 398.
 - c. **Cognitive Disabilities-Borderline**, 12-18 credits: Educ 364, 369, 398.
5. Achieve a 2.75 overall GPA as well as a 2.75 GPA in your major, minor, concentration, and education courses, or be in the upper half of your class before you student teach.
6. Earn a grade of "pass" or 2.0 GPA (C) or better in all areas of student teaching. You CANNOT be certified if you do not pass or if you receive a grade less than C for student teaching in your major.
7. To graduate, see "Graduation" in the **More Academic Information** section of this catalog.

You may take up to two teaching specializations. Certifications are for ages 6-21 in emotional disabilities, learning disabilities, and cognitive disabilities-borderline unless you want certification at only one level, ages 6-12/13 or ages 12-21. In that case you must complete two certifications.

Notes Regarding Teacher Certification for Exceptional Education Majors

1. For teacher certification you must document 200 clock hours of prestudent teaching experience working with children and youth in regular classroom settings of which 50 clock hours are involved with designated social, cultural, or language groups. You must also document 90 clock hours of prestudent teaching experience working with children and youth within your specialization.
2. Be sure you understand and fulfill the human relations requirements of the Wisconsin Department of Public Instruction. You can pick up a copy of the human relations requirements checklist from the School of Education Advising Center, Room 469, CPS Building.

**Exceptional Education Minors for Elementary/Secondary Teachers
Teacher of Students with Early Childhood Special Education (ECSE) Minor (birth - 8 years old)**

This minor is required of early childhood education majors for initial certification. If you have completed initial certification in early childhood, elementary or exceptional education, you may add this license after graduation.

1. Complete a major certification program in elementary, exceptional, or early childhood education.
2. Take Educ 365, 366, 367, 378 (ECED majors do not need 378), 398 and 400.
3. Enrollment cap: 25 students admitted per year.

Teacher of Students with Exceptional Educational Needs Minor

1. Professional Education: Complete a major certification program in education which includes: Educ 309 and/or 386 (see adviser), 351, 381, 383, 398, 400, HD 261, 265 or Psych 260, and methods courses in your instructional areas. Certification grade levels depend on initial certification program.
2. General Exceptional Educ: Educ 356, 362, 364, 368, 369, 378, 398 (in certification area), Com Dis 367.
3. Complete one of the following areas of certification:
 - a. Teacher of students with emotional disabilities: no additional coursework required.
 - b. Teacher of students with learning disabilities: Educ 310.
 - c. Teacher of students with cognitive disabilities-borderline: no additional coursework required.
4. Enrollment caps: Eligible students will seek only one area in special education. 60 students will be accepted per year with a maximum of 30 students per certification area in ED, LD, CD-B.

Exceptional Education, Graduate Certification Programs

See the **Graduate** section of this catalog.

STUDENT TEACHING

Henry St. Maurice, Director of Field Experiences
 Room 464, College of Professional Studies Building
 Phone: 715-346-2449
 E-mail: fieldexp@uwsp.edu

In this final step in your preparation for teaching, you demonstrate practical competence in one of many schools that cooperate with UW-Stevens Point in providing field experiences. As a student or intern teacher you will be assigned to any cooperating school system depending upon your personal preferences and the availability of qualified cooperating teachers.

The Office of Field Experiences and the cooperating school administration arrange all assignments. Please do NOT initiate contact with a cooperating teacher to arrange an assignment. Some assignments may entail additional fees for supervision services, which the director of field experiences must approve and arrange. We will notify you in writing if your assignment requires special fees.

Please don't plan to student teach in a school where your child is enrolled or where a relative is currently employed as an administrator or serves on the school board.

For most program areas, when student or intern teaching for initial certification, you are limited to a maximum of two assignments per semester (e.g. elementary and middle, or high school and middle). Coursework or significant employment during the same semester as student teaching or interning will be counted as an assignment.

The semester before you student teach, you must attend an orientation meeting to get information about the requirements for student teaching.

General Requirements for Eligibility to Student Teach

1. Be admitted to the Professional Education Program. Apply at the School of Education Advising Office, Room 469, CPS Building.
2. Earn a 2.75 overall GPA as well as a 2.75 GPA in your major, minor, concentration, and education courses to student teach. Earn a 3.00 GPA for teaching intern.
3. You must complete all teaching methods/techniques courses BEFORE you student teach.
4. Submit passing scores on the required state content exams.
5. The semester before you student teach, submit your completed application forms by the date set by the Office of Field Experiences.

6. Receive written recommendation from the department chair or associate dean and the School of Education Advising Coordinator.
7. Present a medical statement indicating that you have been examined within the last two years and are free from tuberculosis.
8. Dates of student teaching assignments are set according to the school district semester, not the university semester.

Student Teaching Plans**Plan A: Full Semester Student Teaching**

Before student teaching, complete all work toward your major, and your minor if you wish to student teach in it.

You must register for student teaching in appropriate sections and for credits as your advisers approve. You will spend a full semester student teaching according to the daily schedule and semester calendar of an approved cooperating school. You may be asked to return to campus for one or more seminars or to confer with UW-Stevens Point instructors.

Plan B: Internship for Elementary and Secondary Teachers

You may be selected to enroll as an intern teacher at any one of many levels. You must complete all required courses in professional education before you begin your internship.

As an intern, you are a licensed and contracted member of a school staff, and you will spend an entire semester or year in that school system. During this time, you will be involved in a team providing educational services. Internships are determined by local agency requirements.

To be considered for an internship program, you must earn a cumulative GPA of 3.00 or better, a 3.00 or better in your major, and a 3.00 GPA in your minor if you want to be certified in it.

Plan C: Split-Semester Student Teaching

Before student teaching you must complete all requirements in a major, as well as requirements for a middle school add-on and/or certifiable minor. You must student teach in your major in order to request another student teaching assignment. You must obtain written approval from both major and minor programs, where applicable. If approved, additional assignments take place during the student teaching semester in sequences and locations coordinated by the Office of Field Experiences. Typically, assignments change at the end of a quarter.

TEACHER CERTIFICATION

Joan North, Dean of the College of Professional Studies and Certification Officer
 Room 112, College of Professional Studies Building
 Phone: 715-346-3169
 E-mail: teachcert@uwsp.edu

Notes for Teacher Certification

1. Applications for initial licensure are processed only after you complete all degree and certification requirements and your degree is conferred.
2. For initial licensure in Wisconsin:
 - a. Fulfill all human relations requirements of the Wisconsin Department of Public Instruction. You can pick up a copy of human relations requirements checklist from the School of Education Advising Office, Room 469, CPS Bldg, or from the Certification Office, Room 112, CPS Bldg.
 - b. Successfully demonstrate competence in the Wisconsin Teaching Standards through portfolios.
 - c. Determine content knowledge with passing scores on standardized tests approved by the state superintendent which include Wisconsin's Model Academic Standards.
3. Certification areas:
 - a. Elementary certification covers middle childhood through early adolescence (approx ages 6-12) with an option to add-on age 13 in the minor.
 - b. Early childhood education certification covers early childhood through middle childhood (approximate ages birth-8).
 - c. Secondary certification covers early adolescence through adolescence (approx ages 10-21). K-12 programs in family and consumer ed; health; music-choral, general, instrumental; physical ed; and speech and language cover early childhood through adolescence which covers a wide range of all ages in public schools.
 - d. Certification in exceptional education (CD, ED, LD), ESL, and music is either middle childhood through early adolescence (approx ages 6-13), early adolescence through adolescence (approx ages 10-21) or early childhood through adolescence which covers a wide range of all ages in public schools.
 - e. Certification in family and consumer ed, health, and physical ed is early childhood through adolescence which covers a wide range of all ages in public schools.
 - f. Reading certification (available only to teachers with two years of experience) is early childhood through adolescence which covers a wide range of all ages in public schools.

Title II Reporting

To comply with mandates of Section 207 of Title II of the Higher Education Act, UWSP has set up a Web site (www.uwsp.edu/education/report/) to report the number of students in teacher education, the number of student teachers, numbers of several kinds of supervisors of student teachers, and a student/faculty ratio. More statistics related to teacher certification and licensure will be included on the Web site as they become available.

CERTIFIABLE PROGRAMS

UW-Stevens Point offers certification in the following majors (#), secondary education minors (@), elementary education minors (◇), and graduate certifications (x). Elementary education majors may minor in any UWSP minor, but can receive certification to teach ages 6-13 in certifiable minors. Due to changes in state requirements, this list may change at any time.

	Major	2ndry Minor	Elem Minor	Grad Cert
Biology	#	@		
Chemistry	#	@		
Coaching		@		
Communicative Disorders				x
Computer Info Systems		@		
Early Childhood Education	#		add-on	x
Earth Science		@		
Economics	#	@		
Elementary Education	#			
English	#	@	◇	
English as Second Language		@	◇	x
Environmental Education			◇	
Exceptnl Ed with specializations:				
Early Childhood:EEN	#		add-on	x
(Available only to ECED majors or as an add-on after initial certification in ECED or elementary)				
Emotional Disturbance	#	@	◇	x
Learning Disabilities	#	@	◇	x
Cognitive Disab-Borderln	#	@	◇	x
Family/Consumer Educ	#			
Foreign Language/ Elem Sch			◇	
French	#	@	◇	
Geography	#	@		
German	#	@	◇	
Health Education		@	◇	
History	#	@	◇	
Learning Technologies			◇	
Mathematics	#	@	◇	
Music Ed, General K-12	#			
Music Ed, Instrumental K-12	#			
Music Ed, Choral (age 10-21)	#			
Music Ed, Special Education			add-on	
Natural Science	#			
Physical Education	#			
Physical Educ for Excep Indl			add-on	
Physics	#	@		
Political Science	#	@		
Psychology	#	@		
Reading				x
Resource Management	#*	@		
*(Must also have certif major in a science or social sci)				
Social Science	#		◇	
Sociology	#	@		
Spanish	#	@	◇	

NOTE: To be certified to teach at any level (elementary, secondary, K-12) you must meet **current** Department of Public Instruction (DPI) mandates. You must meet the newest requirements regardless of the requirements that were listed in the catalog when you entered the progra

COURSES

Courses in Early Childhood Education

* An asterisk in front of the course number means that you must be admitted to the relevant Professional Education Program (PEP) area before you can enroll in the course.

ECED 262. Programs for Children and Families. 3 cr. Historical analysis of the development of programs for children and families; roles played by individuals, agencies, and government; current program models and techniques for program evaluation. Prereq: HD 261 or Psych 260.

ECED *366. Curriculum and Methods for the Emergent Reader/Writer. 2 cr. Introduction to curriculum and methods for implementing a developmentally appropriate emergent literacy program. Prereq: ECED 262, and HD 261 or 265, EDUC 302.

ECED *368. Curriculum and Methods for Young Children: Art, Creative Dramatics, Creative Movement, Music. 3 cr. Introduction to curriculum and methods for using expressive arts and characteristics of play to enhance development and learning of young children. 2 hrs lec, 2 hrs practicum per wk. Prereq: ECED 262, HD 261.

ECED *398. Student Teaching. Variable cr; pass/fail. Observation and teaching under the guidance of cooperating teachers and university faculty. Subtitle will indicate kindergarten or early childhood.

ECED *460. Home, School, Community Agencies. 3 cr. Theory and philosophy of processes used to establish positive relationships among home, school, and agency personnel.

ECED *498. Intern Teaching. Variable cr; pass/fail. Structured field experiences in approved school programs. Interns are certified by DPI and employed under contract with schools to design, deliver, and assess instructional programs in grades n-k-12. Prereq: Complete all methods courses and 75% of content courses in approp major. Con reg in Educ 400 may be required.

Early Childhood Education Latent Course: Not offered recently. Full description in (xx-xx) catalog.

160 Topics in Child Devel Assoc Competencies, 1 cr, (97-99)
364 Curriculum and Methods for Young Children, 3 cr, (01-03)
462 Admin of Programs for Children and Families, 2 cr, (01-03)

Courses in Education

Education courses are also listed under the following headings: Biology Ed, Communicative Disorders, Computer Science Ed, Early Childhood Ed, English Ed, Family and Consumer Ed, Foreign Language Ed, Health Ed, Instructional Resources, Mathematics Ed, Music Ed, Physical Ed, Physical Ed for Exceptional Individual.

All course descriptions are general; content, field trips, and resources may vary according to advances in the discipline, availability and accessibility of resources, and the needs of the students in each course and section.

* An asterisk in front of the course number means that you must be admitted to the relevant Professional Education Program (PEP) area before you can enroll in the course.

EDUC 105. Study Skills. 1 cr. Develop skills in textbook comprehension, lecture notetaking, memory, listening, preparation for examinations, time management, and systematic methods of study. 1 hr class per wk; addl 1/2 hr appointments to be arranged.

EDUC *200. Professional Portfolio Development. 1 cr. Introduction to state and national professional teaching standards and assessments. Examine professional development portfolio components and processes. Develop samples of evidence that relate to local and state requirements for certification and initial licensure.

EDUC 205. Education in a Pluralistic Society. 1-2 cr. (field experience, 1 cr. pass/fail). Analyze and evaluate education in the U.S., the policy of equal educational opportunity, and the impact of class, gender, race, and language differences on teaching and learning. Field experience required.

EDUC *300. Professional Portfolio Development II. 1 cr. Advanced examination of professional portfolio components and processes. Develop samples of evidence that relate to local and state requirements for certification and initial licensure. Prereq: 200.

EDUC *302. Methods/Materials for Teaching Reading I. 3 cr. Intro to reading process, includes word recognition, vocabulary, comprehension study strategies and classroom organization for elementary and secondary school. Satisfies state mandate for phonics instruction.

EDUC 305/505. Wisconsin Indians: Cultural Perspectives on Educational Issues. 3 cr. Analyze and evaluate federal and state policies and laws pertaining to Wisconsin American Indian tribes and band members; treaty rights and civil rights, particularly in respect to culture, language, and education. Prereq: 205.

EDUC *309/509. Methods/Materials for Teaching Reading II. 3 cr. Materials/methods of reading instruction: basic approaches, research, assessment, preventive/corrective measures. Includes Wis Teaching Standards. Prereq: 302, or cons chair for 309 only.

EDUC *310. Materials/Methods for Teaching Language Arts. 3 cr. Materials/methods to teach, integrate, assess the language arts in middle/elementary setting. Includes Wis Teaching Standards. Prereq: 302 or cons chair.

EDUC 311. Techniques for Intermediate and Upper Grades—Mathematics, Social Studies, Science. 4 cr. Principles, aims, methods, techniques. 3 hrs lec; observation/lab hrs to be arranged.

EDUC 314. Nature and Needs of the Gifted. 2 cr. Introduction to gifted education presenting characteristics of gifted children and their needs as learners. Prereq: 351.

EDUC 321. Techniques in Elementary School—Speech. 3 cr. Methods, materials, and philosophy for teaching speech in elementary school; curricular correlation.

EDUC *324. Techniques in Elementary School—Social Studies. 3 cr. Principles, aims, methods, techniques, and field experiences. 2 hrs lec, 2 addl hrs to be arranged per wk.

EDUC *325. Techniques in Elementary School—Science. 3 cr. Principles, aims, methods, techniques, and field experiences. 2 hrs lec, 2 addl hrs to be arr per wk.

EDUC *328/528. Reading in the Content Areas. 3 cr. Skills for teaching reading in content areas, related research, strategies for teaching comprehension, study skills, and critical thinking; procedures for curriculum and program development for teachers and reading specialists. Prereq: 309 or 386/586 or English 381.

EDUC *337. Techniques in Secondary Education—Science. 3 cr. Aims, methods, materials, techniques, planning, programs, organization, testing, and field experience.

EDUC *339. Techniques in Secondary Education—Social Studies. 3 cr. Aims, methods, materials, techniques, planning, programs, organization, testing, and field experience.

EDUC *351/551. Teaching Children and Youth with Exceptional Needs in the General/Regular Classroom. 3 cr. Characteristics and differences of students with EEN, gifted/talented abilities, or culturally diverse backgrounds; alternative teaching approaches emphasizing the least restrictive environment. Prereq: Psych 110.

EDUC *356/556. Individual Assessment. 356=3 cr; 556=1-3 cr. Screening, referral and individual assessment relating to M-team procedures; report writing, decision making, and IEP program planning; monitor ongoing progress; learn administration and interpretation of norm-referenced and criterion-referenced individual assessment tests including recording behavioral data, using rating scales and curriculum-based assessment; including field experience. Prereq: 351/551.

EDUC *362. Classroom Management Techniques and Strategies. 3 cr. Comprehensive management of behavior problems of children and adolescents in regular and special classrooms for students with exceptional educational needs.

EDUC *364/564. Curriculum and Methods for Teaching Students with Exceptional Educational Needs I. 364=3 cr; 564=1-3 cr. Methods, materials and adaptations for teaching reading, writing, and mathematics to meet the needs of students with disabilities in the general education curriculum, including development, implementation, and evaluation of IEPs. Required field experience. Prereq: 351/551.

EDUC *365/565. Assessment and Intervention Strategies for Infants and Toddlers with Disabilities and Their Families. 3 cr. Develop skills in assessment procedures to use with newborn, infants, and toddlers up to age three having high risk and/or disabilities; in cooperation with family members and related services professionals. Includes field experience. Prereq: 351/551.

EDUC *366/566. Assessment and Intervention Strategies for Preschool Children with Disabilities and Their Families. 3 cr. Develop skills in assessment procedures and intervention strategies to use with preschool children ages 3-5 years having at-risk situations and/or disabilities; in cooperation with family members and related

services professionals. Includes field experience. Prereq: 351/551 or cons instr.

EDUC *367/567. Assessment and Intervention Strategies for Children with Disabilities in the Primary Grades and Their Families. 3 cr. Develop skills in assessment procedures and intervention strategies to use with children ages 5-8 years experiencing kindergarten and primary curricula, early academic skills, and social/behavioral areas; in cooperation with family members and related service professionals. Field experience. Prereq: 366/566 or cons instr.

EDUC *368/568. Career, Vocational and Community Education for Youth with Exceptional Needs. 368=3 cr; 568=1-3 cr. Procedures and methods in assessing needs, adapting curriculum, and providing instruction in career and vocational education, community skills, personal and interpersonal skills, and transition to adult environments. Prereq: 351/551, or cons instr.

EDUC *369/569. Curriculum and Methods for Teaching Students with Exceptional Needs II. 3 cr. Teaching strategies, curricular adaptations, and methodology at elementary and secondary levels in the areas of science, social sciences, and behavioral interventions and other aspects of teaching students with disabilities. Includes field experience. Prereq: 351/551.

EDUC 370-373/570-573. Workshop in Education. 1-3 cr. Problems of teaching in elementary and secondary schools. Subtitle will designate area and prerequisites.

EDUC *378. Parent, Home and Agency Involvement in Educating Children and Youth with Disabilities. 3 cr. Develop understanding of familial needs, behaviors and perspectives for all family members; cite resources/ intervention to be applied to families having a child with a disability; learn interaction and communication techniques to use with family and community agencies. Prereq: 351/551.

EDUC *381. Educational Psychology. 3 cr. Psychological bases of educational procedures and practices; educational implications of characteristics of physical and mental growth, emotional behavior, motivation, learning, individual differences, and human relations. Prereq: Psych 110.

EDUC *383/583. Tests and Measurements. 3 cr. Brief history of testing movement; functions of tests; methods to apply, score, tabulate, and use test results; test construction and improvement.

EDUC 384/584. Humans, Computers, and Educational Possibilities. 3 cr. Compare abilities of humans and sophisticated machines; definition, differences, strengths and weaknesses; computer capability; social costs and risks.

EDUC *385/585. Teaching the Early Adolescent. 3 cr. Characteristics of early adolescents and instructional strategies appropriate to their needs.

EDUC *386/586. Reading in the Secondary School. 3 cr. Survey of issues, research, theory, process, and strategies that constitute reading in secondary school including a clinical experience.

EDUC *390. Reading Methodology for Specific Subject Areas. 3 cr. In-depth development of reading instruction in student's subject matter area including investigating supplementary materials, use of reading-writing connection, and study strategies.

EDUC *397. Supervised Practicum in Regular Classroom. 1-3 cr. Group instruction in regular classrooms involving instructional planning, organization, classroom management, and teaching lessons with appropriate media at the early childhood, elementary, or secondary levels. Prereq: Regular methods courses relating to particular professional preparation.

EDUC *398. Student Teaching. Variable cr; pass/fail. Certifiable field experiences. Six to 20 weeks in actual school settings planning, instructing, and evaluating educational programs with the cooperation of certified teachers and administrators. Subtitle will designate area. Prereq: Approval of each certifying department; application with Field Experiences; con reg in approp section of 400.

EDUC 399. Special Work. Upperclass education students may arrange for independent study with consent of the head of the School of Education. Credit based on scope of project.

EDUC *400. Seminar on Teaching for Intern Teachers. 1-2 cr; pass/fail. Structured group discussions on aspects of teaching that emerge during full-time field experiences. Prereq: Con reg in 398 or 498.

EDUC *498. Intern Teaching. Variable cr; pass/fail. Structured field experiences in approved school programs. Interns are certified by the DPI and are employed under contract with schools to design, deliver,

and assess instructional programs in grades n-k-12. Complete all methods courses and 75% of content courses in approp major. Prereq: Con reg in approp section of Educ 400 may be required.

EDUC 500. Professional Development Seminar: Initial Educator. 3 cr. Sociological, psychological and pedagogical approaches to designing professional development plans and portfolios for teachers with initial educator licenses. Practical methods for stating goals, aligning them to standards, collecting evidence, analyzing/reflecting on assessment of professional practice by Initial Educator Teams.

EDUC 600. Professional Development Seminar: Professional Educator. 3 cr. Sociological, psychological and pedagogical approaches to designing professional development plans and portfolios for teachers with professional education licenses. Practical methods for stating goals, aligning them to standards, collecting evidence, analyzing/reflecting on assessment of professional practice.

EDUC 700. Professional Development Seminar: Master Educator. 3 cr. Sociological, psychological and pedagogical approaches to designing professional development plans and portfolios for teachers seeking master educator licenses and national certification. Practical methods for clarifying goals, align them to standards, collect evidence, analyze and reflect on assessments of professional practice.

EDUC 701. Philosophical Foundations of Education. 3 cr. Analyze critical issues in education; their ideological and social bases. Prereq: Teacher certification or cons instr.

EDUC 702. Psychological Foundations of Education. 3 cr. Psychological background relative to human abilities and behavior; individual differences; human relations; learning and evaluation with implications for teaching.

EDUC 703. Newer Views of Learning. 3 cr. Explore contemporary views on multi-dimensional and contextual nature of intelligence and learning styles. Investigate theories such as multiple, emotional, successful, and creative intelligence; re-examine importance of learning styles and methods (modalities) for constructing optimal educational experiences.

EDUC 704. Strategies for Discipline and Classroom Management. 1-3 cr. Develop effective strategies for solving individual behavioral problems; survey several models and interaction techniques.

EDUC 705. Basic Statistical Methods in Education. 3 cr. Fundamentals of statistical analysis that apply to education and other fields according to student needs; critical ratios and the test for paired, pooled, and unpooled samples; straight line and curvilinear regression for simple and multiple correlation of variables; introduction to the use of probability, simple and two-way analysis, chi square, and other nonparametric statistics. Prereq: 383/583, or 751; and cons instr.

EDUC 707. Educational Research. 3 cr. Study educational research procedures and develop an educational product or paper, involving problem identification, literature review and analysis, description, and evaluation.

EDUC 708. Social and Cultural Foundations of Education. 3 cr. Relationship between schooling and society; impact of society and culture on education and individuals within educational institutions; emphasis on educational processes, development, and outcomes from multiple theoretical and research perspectives including human relations with implications for teaching.

EDUC 717. Economic Education for Elementary and Secondary Teachers. 3 cr. Introduction to basic economic principles and issues; identify resources for economics instruction at elementary and secondary levels; design lessons and activities for integrating economics education across the curriculum. Open to experienced, certified teachers. May not earn credit in both Educ 717 & Econ 717.

EDUC 721. Fundamentals of Curriculum. 3 cr. Fundamental ideas in developing curriculum, emphasizing human aspects.

EDUC 732. Integrating Language Arts across the Curriculum. 3 cr. Analyze and apply theories of language arts methods and materials to classroom function. Integrate language arts into content curriculum at all levels.

EDUC 741. Improvement In Reading. 3 cr. Trends and programs in developmental reading, reading curriculum, and related research. Prereq: 309.

EDUC 742. Literacy and the Young Child. 3 cr. Study social and developmental aspects of literacy, including research, programs, and instructional strategies. Prereq: 309, 310, or teaching license.

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EDUC 746. Diagnosis and Evaluation of Reading Abilities. 3 cr. Survey formal and informal evaluation instruments in reading; test to identify remedial readers, construct diagnostic profiles, write interpretations of test results. Prereq: 309, 741.

EDUC 747. Remedial Reading. 3 cr. Materials and techniques of remedial reading. For classroom teachers, reading specialists, and administrators of reading programs who are responsible for instruction, curriculum development, and leadership in this area. Prereq: 309, 741, 746.

EDUC 748. Remedial Reading Practicum. 3 cr. Clinical appraisal of remedial readers and programs. Interpret findings, develop and execute corrective measures. Continuous instruction, analysis and evaluation of a remedial reader. Final report describing nature of reader, techniques and materials used, and recommendations for post-clinical instruction. Prereq: 741, 746, 747.

EDUC 749. Seminar in Reading. 3 cr. The nature and treatment of problems in reading instruction. Prereq: Cons instr.

EDUC 750. Supervision and Administration of Reading Programs. 3 cr. Organization, administration, supervision, and improvement of schoolwide reading programs. Prereq: Cons instr.

EDUC 758. Cooperating Teacher Fundamentals in Preservice Teacher Education. 1-3 cr; pass/fail. Methods for planning, supervising, and evaluating student and intern teachers in clinical stages of teacher education programs, with emphases on formative assessments and summative evaluation according to state and national teacher standards. Meets one Wis DPI rule to qualify as cooperating teacher, per Wis Admin Code PI 34.15(6)

EDUC 761. Mentor Teaching: Research and Practice. 1-3 cr; pass/fail. Sociological, psychological and pedagogical approaches to design and implement programs for mentor teachers. Practical methods for supervising and assessing teachers according to established standards for professional development. Prereq: Wis teaching license.

EDUC 771. Supervision of Instruction. 3 cr; pass/fail. Evolving concepts and strategies of supervision; role of supervision in facilitating professional development; place of supervision in evaluating curriculum and instruction; develop systems to observe and analyze classroom instruction.

EDUC 772. Teacher Induction Year. 1 or 3 cr; pass/fail. Survey issues and practices encountered by beginning and experienced teachers new to school districts during induction year. Prereq: Wis teaching license and contract.

EDUC 778. Parent, Home and Agency Involvement in Educating Children and Youth with Disabilities. 1-3 cr. Develop understanding of familial needs, behaviors and perspectives for all family members; cite resources/intervention to be applied to families having a child with a disability; learn interaction and communication techniques to use with family and community agencies. Prereq: 351/551.

EDUC 781. Teaching Exceptional Children Practicum-Internship. 1-8 cr. Professional practice in teaching children with exceptional needs. Subtitle will designate practicum or internship and specialization area(s). Prereq: Specialization courses.

EDUC 782. Seminar: Problems in Exceptional Education. 3 cr. Basic issues, critical reading, and critique of current research, research design, current trends and methodology. Writing of a seminar paper in exceptional education.

EDUC 783. The Reflective Teacher. 3 cr. Renew the spirit of teaching. Explore ways to find balance between professional and personal life; examine professional possibilities; develop clear professional goals; create projections about professional future; examine problems, rewards, and realities inherent in teaching through self-analysis and development of professional portfolio.

EDUC 784. The Creative Teacher (formerly 794). 3 cr. Experience the creative process through readings, active explorations, hands-on and creative exercises to understand the diverse definitions of creativity, be sensitive to its layers and facets, and bring it into the classroom.

EDUC 785. The Skillful Teacher. 3 cr. Explore teaching models and best practices in education. Learn methods to align a comprehensive assessment plan with instruction and learn to interpret results to make sound educational decisions about instructional design.

EDUC 790. Analysis and Improvement of Educational Programs. 1-3 cr. For school district in-service needs. Topic and number of credits vary. Prereq: Teaching experience.

EDUC 791. Introduction to Gifted/Talented Education. 3 cr. Nature and needs of the gifted/talented learner. Overview of history, definitions, identification strategies, and program provisions in gifted education. Introduction to current literature in gifted education.

EDUC 795. Practicum in Teaching Gifted/Talented Learners. 3 cr. Teach gifted/talented learners and develop instructional activities using appropriate methods. Prereq: 791 and 792 or cons instr. May take twice with cons instr and adviser.

EDUC 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization; regular conferences with staff supervisor.

EDUC 797. Methods of Teaching Gifted Learners. 3 cr. Strategies and techniques appropriate for gifted and talented learners. Curriculum differentiation and modification; cognitive and affective domains; creative and critical thinking; leadership, the arts, and content areas. Prereq: 791 or cons instr.

EDUC 798. Supervised Field Experience in K-12 Reading Programs. 1-3 cr. Practical application of training in working with developmental and disabled readers. Leadership and management experiences in in-service presentations, consultant work, research implementation, and program and pupil evaluation techniques. Interaction with administrators to develop reading programs. Prereq: 750 or con reg.

EDUC 799. Thesis. 2-6 credits.

Education Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

- 102 The Exceptional Child, 1 cr, (01-03)
- 241 Creative Activities for Young Children, 3 cr, (87-89)
- 280 Foundations in Education, 3 cr, (01-03)
- 301 Techniques in Kindergarten Education, 3 cr, (01-03)
- 308/508 Developmental Reading, 3 cr.
- 312/512 Multi-Unit School, IGE, 2-3 cr.
- 313/513 IGE, Multi-Unit School, 3 cr.
- 320 Techniques in Elem School Guidance, 3 cr, (01-03)
- 327/527 Teach Reading to Gifted/Talented Students, 3 cr, (01-03)
- 330 Techniques in Secondary Ed Accounting, 2 cr, (01-03)
- 335 Techniques in Secondary Ed Mathematics, 2 cr, (01-03)
- 350/550 Organization and Admin of Outdoor Educ, 3 cr, (01-03)
- 352/552 Workshop in Mental Health, 4 cr, (01-03)
- 355/555 Methods for Teaching EEN Children, 1-3 cr.
- 360/560 Workshop in Elementary Education, 2-4 cr, (01-03)
- 361/561 Identif and Use of Community Resources, 2-3 cr, (01-03)
- 371/571 Workshop in Education, Aerospace, 1-3 cr, (91-93)
- 372/572 Wkshp in Educ, Techniq of Outdoor Educ, 1-3 cr, (01-03)
- 374/574 Wkshp in Ed: Group Dynamics in Sec Sch, 2-3 cr, (01-03)
- 380 Education Principles, 2 cr.
- 382 Philosophy of Education, 3 cr, (01-03)
- 387/587 Corrective Reading in Secondary School, 3 cr, (01-03)
- 388/588 Interpersonal Relations, 3 cr, (93-95)
- 389/589 Issues in Vocational/Technical Ed, 2-3 cr, (01-03)
- 391 Teaching Minorities, 3 cr, (01-03)
- 394/594 Alternative Education, 1-2 cr, (01-03)
- 395/595 Teaching in Middle School, 3 cr, (01-03)
- 706 Experimental/Statistical Methods in Ed Rsrch, 3 cr, (91-93)
- 711 Seminar: Problems in Elementary Teaching, 3 cr, (91-93)
- 712 Seminar: Problems in Secondary Teaching, 3 cr, (91-93)
- 720 Research Studies in Elementary Education, 3 cr, (87-89)
- 722 Elementary Ed Curriculum, 3 cr, (01-03)
- 723 Introduction to Reality Therapy, 3 cr.
- 724 Reducing Classroom Conflict, 3 cr.
- 725 Discipline - Glaser Model, 3 cr.
- 727 Mastery Teaching, 2-3 cr, (91-93)
- 728 Clinical Supervision of Instruction, 2-3 cr, (91-93)
- 731 Mathematics in the Elementary School, 2-3 cr, (87-89)
- 733 Elementary School Science, 3 cr, (01-03)
- 734 Elementary School Social Studies, 3 cr, (91-93)
- 735 Leadership for Curriculum Change, 3 cr, (01-03)
- 736 Individually Guided Motivation, 2-3 cr, (85-87)
- 752 School Law for the Teacher, 3 cr, (01-03)
- 755 Values and Clarification, 3 cr, (91-93)
- 758 Education for Cooperating Teachers, 3 cr, (93-95)
- 765 Professional Experience: Secondary, 8 cr, (91-93)
- 770 Adviser's Function: Student Activities Program, 1 cr, (87-89)
- 774 Disturbed, Retarded, Learning Disabled Stu, 1-5 cr, (97-99)
- 780 Curric/Prog for Severely Dist and LD, 1-5 cr, (01-03)
- 789 Social and Emotional Needs of Gifted, 1-3 cr, (01-03)
- 792 Curriculum for Gifted/Talented, 3 cr, (01-03)
- 793 Issues in Gifted/Talented Education, 3 cr, (01-03)

ENGINEERINGSee *Physics, Chemistry* and *Paper Science*.**ELEMENTARY EDUCATION**See *Education*.**English****(College of Letters and Science)**

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English Assessment/Placement Procedure

All entering freshmen take the freshman English entrance assessment that measures writing competence based on an essay composed at the university during orientation. If your performance on the writing assessment indicates superior writing ability, you may be exempt from English 101 and placed in English 150. Successful completion of English 150 then satisfies the freshman English requirement.

Notes:

1. English majors (general and teacher certification) should take English 201 as early as possible. In some cases English 200 may substitute for 201 with permission of the department chair.
2. Sophomores may take 300 level courses with approval of the department chair. English majors may take 200 level courses as second semester freshmen.
3. English 345, 375, and 381 count toward the English major/minor and the writing minor ONLY for those seeking teacher certification, or for those who need them as collateral requirements in other departments.
4. English 274 and 275 will count for the English major/minor for teacher certification ONLY if you need them as collateral requirements in another area such as elementary education.

English Major (General)

Consists of 38 credits beyond freshman English including 18 credits taken in courses numbered 300 and above.

1. English 201.
2. Survey of British literature, 6 credits from 211 (or 321, 323a, 323b, 366) and 212 (or 324, 325, 327).
3. Survey of American literature, 6 credits from 213 (or 329, 313a) and 214 (or 313b, 320, 360, 382).
4. Ethnic literature, 3 credits: English 284.
5. Theory, 3 credits from 379, 380.
6. Language, 3 credits from 240, 342, 344, 346.
7. Masters, 6 credits from 330, 333, 334, 336, 385, 386.
8. Electives: 8 credits including one 3 credit 300 level literature course beyond the requirements above and at least 5 credits of electives from:
 - a. Courses listed above that are not used for those requirements.

- b. Other English courses: English 303, 308, 309, 310, 311, 312, 314, 319, 349, 350, 351, 352, 353, 354, 357, 358, 359, 361, 362, 363, 364, 365, 374, 376, 377, 378, 379, 380, 383, 395, up to 3 credits of 498.
- c. Maximum of 3 credits of English 157, 257, 357, and 399.

English Major for Teacher Certification

Consists of requirements for the English major above plus:

1. Writing, 3 credits from 250, 251, 253, 254, 349, 350, 351, 352, 353, 358, 359. (354 does not count for teacher certification.) Courses taken to satisfy this requirement may be included in the English major as an elective under 6 above.
2. Reading, 3 credits. English 381 is recommended and counts as elective for teacher certification majors under 6 above. Education 386 can be used to meet the reading requirement for teacher certification, but it does not count toward the English major.
3. Literature for adolescents, 3 credits: English 375 may count as an elective for teacher certification majors under 6 above.
4. Teacher certification majors may substitute English 345 for the language requirement of the English major under 4 above.
5. Methods, 6 credits: English 355, 356, 497, English Education 396.
6. Student teaching, 16 credits: English Education 398.

Notes for teacher certification:

1. Because of enrollment limits in the teacher certification program, some qualified students may not be admitted to English education courses.
2. Before applying to the program, you must have completed 18 credits of English beyond freshman English and have at least a 3.00 GPA in those credits, including transfer credits.
3. Admission will be determined by GPA in English, evaluation of a portfolio of writing, and an interview (if possible). Admission decisions will be made before spring semester registration. See the English Department for further details.
4. Also see information about the Professional Education Program and the secondary education curriculum for teacher certification in the **Education** section of this catalog.

English Minor

Consists of 24 credits beyond freshman English including 12 credits taken in courses numbered 300 and above. Complete English 200 plus requirements 2, 3, 6, 7 of the general English major above. (4 and 5 are not required for the minor, but are strongly recommended.)

English Minor for Teacher Certification (Secondary)

Consists of the English minor above plus the requirements for teacher certification listed for the major above.

English Minor for Elementary Ed Majors

Consists of 24 credits beyond freshman English including 12 credits taken in courses numbered 300 and above.

1. English 200.
2. Either English 275 or 375.
3. Either English 250 or 253.
4. Either English 342 or 345.
5. Either English 355 or 356; and English Education 396 or English 497.

6. Electives: 9 credits of any 200-300 level English courses not already taken above. Pick electives that will emphasize writing, language, or literature.

Writing Minor

Consists of 24 credits beyond freshman English including 12 credits taken in courses numbered 300 and above.

1. English 200.
2. Language, 3 credits from: English 240, 342, 344, 346.
3. Literature, 3-6 credits from: 103, 106, 108, 203-214, 280-336, 360-366, 374, 376, 377, 378, 380, 382, 383, 385, 386.
4. Writing, 12-15 credits from: English 157, 250, 251, 253, 254, 257, 349, 350, 351, 352, 353, 354, 357, 358, 359, 399, up to 3 cr of 498. You may apply a maximum of 3 credits from English 157, 257, 357, 399. The chair may approve up to 3 credits of writing courses from other departments providing you submit a portfolio containing at least 5000 words that is worth an English grade of B or better.

The writing minor is not teacher certifiable, but is generally favored by public school employers as a complement to the English major. Other complementary minors are foreign language, communication, or theatre arts.

English Major with a Writing Minor

Requires 48 credits beyond freshman English including:

1. Requirements for the English major.
2. Writing: 15 credits from the writing minor.
3. Electives: a minimum of 9 credits from English offerings and acceptable comparative literature courses.

English as a Second Language

For the ESL teacher certifiable minor, see the *Foreign Languages* section of this catalog. For intensive ESL courses for non-native speakers, see *English as a Second Language Program* following this section.

Scientific and Technical Writing Minor

Requirements for the technical writing minor are listed under that title later in this catalog.

Academic Standards

1. Anyone may declare a major/minor in English or a minor in writing, scientific and technical writing, or English for elementary education. To be approved for graduation you need to have a cumulative grade point average of 2.00 (2.75 to student teach), including transfer credits, regardless of any declaration of academic bankruptcy.
2. You must have consent of the department chair before you will be allowed to repeat grades of D in English 101, 102, and 150, as well as English courses numbered 200 and above in which you received passing grades.
3. English courses are open, subject to availability, to students who are not declared majors or minors.

Credit-by-Exam Policy

If you wish to obtain credit-by-exam for any English general degree requirement course other than 101, contact the English Department chair. The faculty member who most recently taught the course will confer with you regarding date, site, question format, exam length, materials allowable (or necessary) during the exam, etc.

The written comprehensive exam will be based on material normally covered in the course. The faculty member will

administer the exam and notify you in writing of your score within two weeks of taking the exam. A passing score is a B- or better. You may not take an exam for credit more than once for the same course. A nominal fee may be charged for administrative purposes.

Courses in English

*All English courses in the 200 series require sophomore standing as a prerequisite except that they are also open to second semester freshman English majors.

ENGL 101. Freshman English. 3 cr. Critical reading, logical thinking, and effective writing. Write frequently in and out of class, using specific rhetorical strategies for a variety of purposes and audiences. Prereq: Satisfactory placement test score. GDR:ENGL

ENGL 102. Freshman English. 3 cr. Analytical reading and writing and the methods of inquiry common to various academic disciplines. Write frequently in and out of class, using suitable sources of information and appropriate methods of documentation. Prereq: 101 or equiv. GDR:ENGL

ENGL 103. The Myth of ... 3 cr. (Topic will be announced.) The origin and development of a particular myth as it is embodied in folk tales and/or drama, film, novels (e.g. the myth of the Great Lover, the Doctor, the Jew, the Politician). May apply 3 cr max of 103/203/303 toward major/minor.

ENGL 106. Reading Fiction. 3 cr. An opportunity to read, discuss, and evaluate outstanding works of fiction. GDR:HU2

ENGL 108. Reading Drama. 3 cr. Oral reading and discussion of one play a week from dramatic literature. Class chooses the plays. GDR:HU2

ENGL 150. Advanced Freshman English. 3 cr. Research and writing using appropriate rhetorical strategies for students with potential for accelerated reading, writing, and research. Prereq: Satisfactory test scores. GDR:ENGL

ENGL 157. Independent Writing. 1 cr, pass/fail. Individualized program for writing improvement based on student needs and personal objectives, taught in conjunction with the Writing Laboratory. May repeat for 3 cr max among 157, 257, 357.

ENGL *200. Introduction to the Study of Literature. 3 cr. Study of literature, emphasizing development of critical vocabulary, recognition of various forms of literature, and rudimentary analysis of selected works. GDR:HU2

ENGL *201. Introduction to Literary Study for the English Major. 3 cr. Major literary genres in their cultural and historical contexts emphasizing development of interpretive and communicative skills necessary to join effectively in the discussion of and writing about literature. Prereq: Declared English major.

ENGL *203. Myth of ... 3 cr. Topic will be announced. See 103.

ENGL *211. English Literature I. 3 cr. Emphasis on major writers from Beowulf through pre-Romantics, stressing insight into their works. GDR:HU2

ENGL *212. English Literature II. 3 cr. Emphasis on major writers from the Romantics to the present, stressing insight into their works. GDR:HU2

ENGL *213. American Literature I. 3 cr. Emphasis on major writers from Emerson through Twain, stressing insight into their works. GDR:HU2

ENGL *214. American Literature II. 3 cr. Emphasis on major writers from James to the present, stressing insight into their works. GDR:HU2

ENGL *240. Introduction to Linguistics. 3 cr. Fundamental concepts and methods of the scientific study of languages in their structural, historical, and geographical aspects.

ENGL *250. Intermediate Composition. 3 cr. Practice in exploratory, expository, and persuasive discourse. Prereq: Successful completion of freshman English, or cons chair.

ENGL *253. Introduction to Creative Writing. 1-3 cr. Training and practice for the beginning writer in various forms of poetry and fiction; class discussion of student work.

ENGL *254. Introduction to Scientific and Technical Writing. 3 cr. Introduction to technical correspondence and editing, advertising copywriting, science writing, instruction writing, static and process description, and scientific and technical reports.

ENGL *257. Independent Writing. 1 cr, pass/fail. Same as 157.

ENGL 260. Computer Aids for English Studies. 1 cr. Introduction to uses of computer software in the study of English language and literature. 4 wk module for English majors/minors.

ENGL *274. Literature for Early Childhood. 3 cr. Read, select, and present materials suitable for children, preschool through grade 3. (See Note 4 above.)

ENGL *275. Children's Literature. 3 cr. Read, select, and present materials suitable for elementary school readers. (See Note 4 above.)

ENGL *280(MNS). American Indian Literature. 3 cr. Literature about the American Indian from oral and written materials by Native American authors and other American writers. GDR:HU2

ENGL *281(NW). African Literature. 3 cr. Survey literature from across the continent in a variety of forms. GDR:HU2

ENGL *282(MNS). Black Literature. 3 cr. Critical study of works by black writers (e.g., Americans, Africans, West Indians). GDR:HU2

ENGL *283. Mythology in Literature. 3 cr. The basic myths of creation, the flood, man's fall, the Olympians and their Roman counterparts, and the stories of myth and history that form the basis of the literary expression of Western culture; emphasis on Graeco-Roman, Judeo-Christian, and Norse myths, as they appear in selected poetry, novels, and plays. GDR:HU2

ENGL 284. Introduction to Ethnic Literature in the United States. 3 cr. Introduction to ethnic literature in the US including works by African, Asian, Native American, and Latino writers. Explore how these works address basic issues of race, ethnicity, and cultural identity in a diverse society. Prereq: English major.

ENGL *285. Women in Literature. 3 cr. Examine literature to determine how women are depicted in Western cultural tradition, how images of women have developed and been perpetuated, and how they shape a woman's sense of who she is and a man's idea of what she should be. GDR:HU2

ENGL 286. Literature and Film. 3 cr. Introduction to theories and concepts of narrative, language, and culture through examination of various prose fiction texts and their film adaptations. GDR:HU2

ENGL *288. The Literature of Human Love and Sexuality. 3 cr. Literature of love, using representative works and authors from various cultures and times such as Lysistrata, the Song of Solomon, Ovid, Chaucer, Donne, Swift, DeSade, D.H. Lawrence, James Joyce. GDR:HU2

ENGL *289. Popular Literature. 3 cr. Close reading of selected topics with general appeal such as frontier literature, sports literature, speculative fiction, mystery literature. Subtitle will designate area. May repeat for credit with different subtitles. GDR:HU2

ENGL 303. The Myth of... 3 cr. Topic will be announced. See 103.

ENGL 308. Reading Drama. 3 cr. Oral reading and discussion of one play a week from dramatic literature. GDR:HU2

ENGL 309/509. Forms and Modes in Literature. 1-3 cr. Selected works of several writers that are examples of a form or mode, such as the parable in modern literature. Subtitle will designate area. May repeat for credit with different subtitles. GDR:HU2 by subtitle.

ENGL 310. The Modern Short Story. 3 cr. Representative short stories of world literature with emphasis on literary structure, form, and theme. GDR:HU2

ENGL 311/511. The English Novel (British). 3 cr. English novels from (a) early 1700s to 1880 including Defoe, Fielding, Sterne, Austen, Dickens, and George Eliot; or (b) 1880 to the present including Hardy, Joyce, Conrad, Lawrence, Woolf, and Lessing. May take once for each period. GDR:HU2.

ENGL 312/512. Modern Drama. 3 cr. Representative dramas of world literature from Ibsen to the present; emphasis on literary structure, form, and theme. GDR:HU2

ENGL 313/513. The American Novel. 3 cr. American novels from (a) late 1700s to 1900 including Hawthorne, Melville, James, and Twain; or (b) 1900 to the present, including Wharton, Hemingway, Cather, Faulkner, and Bellow. May take once for each period. GDR:HU2

ENGL 314/514. Modern Poetry. 3 cr. Study of 20th century poetry beginning with works of Yeats, Pound, and Eliot. GDR:HU2

ENGL 319/519. The Novel Since 1850. 3 cr. Representative novels of world literature from a variety of cultures with emphasis on literary structure, form, and theme. GDR:HU2

ENGL 320/520. American Realism and Naturalism. 3 cr. Theory and development of realism and naturalism from 19th century to present. GDR:HU2

ENGL 321/521. English Literature to 1485. 3 cr. Development of English poetry and prose, excluding Chaucer, from Anglo-Saxon through late Medieval periods.

ENGL 323/523. British Literature Before 1790, Excluding Drama. 3 cr. Development of poetry and prose from (a) 1485-1660 including More, Sidney, Marlowe, Spenser, Shakespeare, Donne, Jonson; or (b) from 1660-1790 including Dryden, Defoe, Swift, Pope, Sam Johnson, Goldsmith. May take once for each period.

ENGL 324/524. The Romantic Movement (British). 3 cr. Development of romanticism in English poetry and prose, its theory and creation, also survey of pre-Romantic Movement.

ENGL 325/525. Victorian Literature (British). 3 cr. Works revealing the crisis of the individual in an age torn by conflicting values. Major poets and essayists including Tennyson, Browning, Arnold, Carlyle, Newman, and Ruskin.

ENGL 327/527. Victorian Literature in Transition (British). 3 cr. Development of the modern spirit in such writers as Hardy, Conrad, Ford, Shaw, Yeats, and the Aesthetes and Decadents.

ENGL 329/529. The American Renaissance. 3 cr. American literary renaissance of mid-19th century with works of Emerson, Thoreau, Hawthorne, Melville, and Whitman. GDR:HU2

ENGL 330/530. Chaucer (British). 3 cr. Emphasis on the Canterbury Tales and their historical, social, linguistic background. GDR:HU2

ENGL 333/533. Shakespeare (British). 3 cr. Early plays. GDR:HU2

ENGL 334/534. Shakespeare (British). 3 cr. Tragedies and later plays. GDR:HU2

ENGL 336/536. Milton (British). 3 cr. Milton's poetry and selected prose. Growth of a writer in his historical milieu. GDR:HU2

ENGL 342/542. English Grammars. 3 cr. Survey of major methods of language analyses that have been applied to English since the 18th century; traditional, structural, and transformation-generative.

ENGL 344/544. History of the English Language. 3 cr. Development of English sounds, spelling, inflection, syntax, vocabulary, and dialects from Old English to the present.

ENGL 345/545. English Language for Teachers. 3 cr. Contemporary approaches to language acquisition, analysis, history, usage, and teaching language arts. Only for teacher certification English majors/minors/writing minors.

ENGL 346/546. Old English. 3 cr. Introduction to Old English language and literature.

ENGL 349/549. Editing and Publishing. 3 cr. Writing, editing, and preparing materials for publication, including consideration of reader/editor appeal, and ways to market manuscripts. [Editor's note: The class must produce and sell a book.]

ENGL 350. Advanced Composition. 1-3 cr. Art of writing nonfiction with attention to voice, audience, and style. Prereq: 250 or cons chair.

ENGL 351. Advanced Business Writing. 3 cr. Examine methods of audience analysis and strategies to shape effective written business communication. Prereq: Cons instr or chair.

ENGL 352. Freelance Writing. 3 cr. Essay writing for personal satisfaction and possible publication; emphasis on most marketable essays, such as the interview/profile, how-to, travel, opinion, humor, familiar essay. Survey of likely markets, advice on how to break in, how to prepare and submit the manuscript, cover and query letters, and copyright information. Prereq: Cons instr or chair.

ENGL 353/553. Advanced Creative Writing (Poetry or Fiction). 1-3 cr. Intensive study in writing various forms of poetry or fiction; class discussion of student work. May take max 9 cr with 6 cr max under one focus. Prereq: 253, cons instr or chair.

ENGL 354/554. Advanced Scientific and Technical Writing. 3 cr. Practice in writing scientific and technical documents such as grant proposals, feasibility reports, and articles with focus on your area of specialization. Prereq: 254 or cons instr.

ENGL 355/555. Methods of Teaching Composition (Elementary and Secondary). 2 or 3 cr. Teaching writing as a composing process; theory and practice for all levels and subjects. Does not count toward English major/minor. Prereq: Admission to Prof Educ prog (English) or cons chair.

ENGL 356/556. Methods of Teaching Literature (Elementary and Secondary). 2 or 3 credits. Teaching literature as an exploratory process, beginning with reader response; theory and practice for all levels. Does not count toward English major/minor. Prereq: Admission to Prof Educ Prog (English) or cons chair.

ENGL 357. Independent Writing. 1 cr, pass/fail. See 157.

ENGL 358/558. Outdoor Writing. 3 cr. Writing articles and essays on nature and the outdoor experience.

ENGL 359/559. Novel Writing. 3 cr. Strategies for planning and completing a draft of a novel. Fictional techniques; manuscript preparation and submission; class discussion of student work; individual conferences; readings from first novels and texts on novel writing. Prereq: Cons instr or chair.

ENGL 360/560. Regional Literature (American). 3 cr. Literature by small group of authors whose writing reflects the concerns of geographic areas. Subtitle will designate area. May repeat with different subtitles.

ENGL 361. World Literature. 3 cr. Representative selections of world literature from the earliest times to the 17th century. GDR:HU2

ENGL 362. World Literature. 3 cr. World literature from the 17th century to the present. GDR:HU2

ENGL 363. Nature Literature. 3 cr. Literary texts that explore humankind's relationship to the natural world; readings provide historical depth and cross-cultural perspectives. GDR:HU2

ENGL 364/564. Canadian Literature. 3 cr. Major writers, stressing contemporary writers such as Margaret Atwood, Alice Munro, Robertson Davies, Sinclair Ross. GDR:HU2

ENGL 365/565. Science Literature. 3 cr. Examine development of writing for and about science and technology from 1660 to the present. Impact of development of two modes of scientific writing on contemporary society—one for scientists and one for general readership. GDR:HU2

ENGL 366/566. English Drama to Shaw (British). 3 cr. Major plays and trends in drama from medieval to modern, such as *Everyman*, *Dr. Faustus*, *Volpone*, *The Duchess of Malfi*, *Tis a Pity She's a Whore*, *Beggar's Opera*, *The Importance of Being Earnest*. GDR:HU2

ENGL 374(NW). Postcolonial Literature in English. 3 cr. Works in English by writers from postcolonial nations, e.g., India, Pakistan, Australia, New Zealand, or countries of the West Indies. GDR:HU2

ENGL 375/575. Literature for Adolescents. 3 cr. Select and read literature suitable for adolescents. Only for teacher certification English majors/minors/writing minors.

ENGL 376/576. Lives and Literature of the Beat Generation. 3 cr. Representative works of fiction, poetry, creative nonfiction, critical commentary, biography, and autobiography related to the Beat Generation. Prereq: Jr st or cons instr.

ENGL 377/577. Contemporary Poetry. 3 cr. Contemporary poetry since World War II.

ENGL 378/578. Contemporary Fiction. 3 cr. International fiction since World War II with experimental narrative techniques and/or thematic relationships. GDR:HU2

ENGL 379/579. Rhetorical Theory. 3 cr. History of ideas regarding effective use of language, emphasizing classic texts by Aristotle, Cicero, and Quintilian, and their influence on modern thought. Prereq: Jr st or cons chair.

ENGL 380/580. Literary Theory. 3 cr. Critical approaches to literary study based on ancient and modern theories.

ENGL 381/581. Reading for the English Teacher. 3 cr. Apply current reading theory to practice in the English classroom. Reading process, response-based teaching, and strategic learning. Only for teacher certification English majors/minors/writing minors.

ENGL 382/582(MNS). Ethnic Literature of the United States. 3 cr. Explore cultural pluralism and an exploration of literary works by Native Americans, Afro-Americans, Asian-Americans, Jewish-Americans, and writers of European immigrant descent. GDR:HU2

ENGL 383/583. Themes in Literature. 3 cr. Works of several writers demonstrating a theme or related themes. Subtitle designates area. May repeat for credit with different subtitles. GDR:HU2 by subtitle.

ENGL 385. Major Authors. 3 cr. Close, critical study of one or more major authors. Subtitle will designate author(s). May repeat with different subtitle. GDR:HU2

ENGL 386 (MNS by subtitle). Major Authors of Ethnic Literature. 3 cr. Close critical study of one or more major authors of ethnic literature. Subtitle will designate author(s). GDR:HU2

ENGL 392. Literature and Ecology. 3 cr. Study American and English literary texts to discover attitudes toward various environments in literature, analyze historic and current environmental issues, and describe the role of literature in ecology. Does not count toward English major/minor. GDR:EL

ENGL 393. Technologies for English Education. 3 cr. Introduction to instructional and administrative technology for English teachers. Prereq: Admission to Professional Educ Prog (English) or cons chair.

ENGL 395/595. Workshop in English. 1-3 cr. Study contemporary scholarship in English. Subtitle will designate area. May repeat for credit with different subtitles. Prereq: Cons chair.

ENGL 397. Practicum. 1-3 cr. Students may, with cons instr and chair, arrange for supervised practical experience as tutors, teachers' aides, etc. Approx 45 hrs practice per cr. Subtitles will identify type of practicum. Does not count toward English major/minor.

ENGL 399. Special Work. 1-3 cr. Upperclass students may arrange for independent study with cons chair. Credit based on scope of project. Prereq: 3.00 GPA in English courses.

ENGL 497. Senior Seminar in English Education. 1 cr. Develop, refine, and write a philosophy of teaching English in secondary school. Prereq: Be within two semesters of student teaching and con reg in 355, 356, and English Education 396.

ENGL 498. Writing Internship. 1-6 cr. Supervised writing experience in the field with faculty evaluation in consultation with field supervisor on basis of culminating report and writing samples; credit determined by faculty; open only to English majors/minors, writing minors, and technical writing minors. Prereq: Sr st and cons chair. May apply 3 cr max to English major/writing minor.

ENGL 712. Advanced English Methods. 3 cr. Problems in teaching literature, writing, and language arts: course and curriculum design, trends and issues in teaching English, and adaptation of theory and research to classroom practice. Open to elementary language arts and secondary English teachers and candidates for certification.

ENGL 715. Twentieth Century Literature. 3 cr. Subtitle will designate focus.

ENGL 716. The English Novel. 3 cr. Subtitle will designate focus.

ENGL 719. The American Novel. 3 cr. Subtitle will designate focus.

ENGL 740. Language in Society. 3 cr. Historical growth and continuing development of English language and its uses in society, including current usage and principles for evaluating language in use.

ENGL 745. Censorship. 3 cr. Examine history of censorship in schools and society, major issues of censorship in the classroom, and ways for teachers, administrators, librarians, and citizens to deal with censorship problems.

ENGL 750. Writing Nonfiction. 3 cr. Read modern essays to learn about different methods and styles; critique personal writings.

ENGL 752. Workshop in Fiction. 3 cr. Advanced study in fiction techniques; discuss, critique class work. Prereq: Cons instr or chair.

ENGL 753. Workshop in Poetry. 3 cr. Advanced study in poetry techniques; discuss, critique class poems. Prereq: Cons instr or chair.

ENGL 755. Teaching English (Literature, Composition, Creative Writing). 3 cr. Research and discuss problems and techniques of teaching English. May take once under each subtitle.

ENGL 756. Measuring Growth in English. 3 cr. Theory and practice of evaluating writing ability and literary response; issues in testing and evaluation for English teachers.

ENGL 757. Writing Centers: Theory and Practice. 3 cr. Establishing and administering elementary and secondary school writing centers, training peer tutors, and teaching by the conference method.

ENGL 760. Literature and the Human Experience. 3 cr. Literature as an instrument for man's understanding of his own experience.

ENGL 761. Seminar in English Literature. 3 cr. Subtitle will designate focus.

ENGL 762. Seminar in American Literature. 3 cr. Subtitle will designate focus.

ENGL 772. Poetry: Forms, Functions, and Meanings. 3 cr. Forms and structures of poetry in English and ways poems convey meanings.

ENGL 781. Reading in the English Classroom. 3 cr. Critical review of psycholinguistic research with application to methods, selection of materials, and problems with teaching reading in the English curriculum, elementary through secondary.

ENGL 785. Selected Literary Master(s). 3 cr. Subtitle will designate the master(s).

ENGL 786. Selected Literary Topic(s). 3 cr. Subtitle will designate topic.

ENGL 795. Project. 1 cr. In-depth examination and creative application of research and theory to a specific teaching problem such as curriculum design, teacher training, or revising district programs.

ENGL 796. Independent Study. 1-3 cr. Study supervised by an instructor.

ENGL 798. Portfolio. 2-4 cr. Selection and analysis of professional presentations, publications, accepted manuscripts, in-services, and similar activities. Prereq: Consent of Portfolio Committee.

ENGL 799. Thesis. 2-6 cr.

English Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

- 142 Basic English Grammar, 3 cr, (01-03)
- 170 Folklore, 1-3 cr, (97-99)
- 195 Freshman Seminar, 1 cr, (97-99)
- 251 Business Writing, 3 cr, (01-03)
- 390/590 Independent Reading 1 cr, (01-03)
- 391 Frankenstein Revisited, 3 cr, (01-03)
- 394 Tutor Practicum in Reading and Writing, 3 cr, (01-03)
- 498 Writing Internship, 1-6 cr, (01-03)

Courses in English Education

E ED 396. English Education Practicum. 1 cr. Supervised observation and experience in secondary schools. Forty-five hrs required for all English education majors. Prereq: Con reg in 355 and 356.

E ED 398. Student Teaching in English. 16 cr. Observation and teaching in the secondary school classroom under the guidance of cooperating teachers and university faculty.

E ED 498. Intern Teaching. Variable cr. Structured field experiences in approved school programs. Interns are certified by the DPI and are employed under contract with schools to design, deliver, and assess instructional programs in grades n-k-12. Prereq: Completion of all methods courses and 75% of content courses in approp major. Con reg in approp section of Educ 400 may be required.

ENGLISH AS A SECOND LANGUAGE (minor)

For the ESL teacher certifiable minor and the bilingual add-on certification, see **Foreign Languages**. For intensive ESL courses for non-native speakers, see below.

English as a Second Language Program (Division of Communication)

Jim Kelim, Director
 Room 225, Communication Arts Center
 Phone: 715-346-2838
 E-mail: esl@uwsp.edu OR jkelim@uwsp.edu
 Web: www.uwsp.edu/esl

The English as a Second Language Program provides intensive English classes for international students who want to attend an American university but whose English skills are not yet ready to compete in an academic setting. Full-time students attend 20 class hours per week at levels that are appropriate for their skills. The classes emphasize the development of academic English skills in the areas of reading, writing, listening/notetaking, and speaking. As conditionally accepted students complete upper-level ESL courses, they may begin to enroll in university courses. After completing the entire ESL program, students may enroll full time in university courses.

Courses in English as a Second Language

ESL 061. Listening/Notetaking I. 2 cr. Develop ability to follow short spoken exchanges, directions, and presentations found in daily life, gain basic skills in notetaking, and gain experience in talking and writing about spoken material. Prereq: Placement.

ESL 062. Listening/Notetaking II. 2 cr. Develop ability to gather information from longer spoken sources such as news programs, educational shows, interviews, and radio commentaries, improve notetaking strategies, and develop ability to discuss and write clearly about spoken information. Prereq: 061 or placement.

ESL 063. Listening/Notetaking III. 2 cr. Develop ability to follow live lectures and taped presentations of academic topics and current events, refine notetaking strategies, discuss and synthesize written and spoken information, and write well-developed essays about the information. Prereq: 062 or placement.

ESL 071. Oral Communication I. 3 cr. Learn English conversational strategies, functions, and vocabulary applicable to basic life skills, develop ability to carry on casual conversations, and practice American pronunciation. Prereq: Placement.

ESL 072. Oral Communication II. 3 cr. Learn formal and informal conversational strategies and functions applicable to a variety of interpersonal situations, develop ability to carry on in-depth conversations on challenging topics, and learn strategies for small-group interaction. Prereq: 071 or placement.

ESL 073. Oral Communication III. 3 cr. Refine ability to interact in formal and large-group situations, develop ability to discuss current events and academic topics, and learn basic strategies for speaking in front of a group. Prereq: 072 or placement.

ESL 081. Reading I. 5 cr. Learn basic reading strategies, develop skills in writing about and discussing short informative and general interest readings, and learn basic strategies for understanding and learning new vocabulary. Prereq: Placement.

ESL 082. Reading II. 5 cr. Learn reading strategies for comprehending longer and more academic readings from texts and magazines, increase ability to write in response to readings and to discuss information in texts, gain greater exposure to academic vocabulary, and develop ability to incorporate new vocabulary in writing and discussions. Prereq: 081 or placement.

ESL 083. Reading III. 5 cr. Learn advanced reading strategies for textbook selections and academic articles, use discussion and writing skills to fully comprehend and analyze readings, demonstrate comprehension both verbally and in writing, and expand active academic vocabulary. Prereq: 082 or placement.

ESL 091. Writing/Grammar I. 6 cr. Develop ability to write on personal or subjective topics, learn editing strategies, and develop control of basic grammar and mechanics. Prereq: Placement.

ESL 092. Writing/Grammar II. 6 cr. Move from personal to objective writing in response to a source, expand editing strategies, and improve accuracy over a wider range of grammatical structures. Prereq: 091 or placement.

ESL 093. Writing/Grammar III. 6 cr. Develop ability to draw information from and write about multiple sources, learn basic library skills, and develop independent editing strategies and effective use of grammar. Prereq: 092 or placement.

ENVIRONMENTAL COMMUNICATION

See **Natural Resources – Human Dimensions of Natural Resource Management.**

ENVIRONMENTAL EDUCATION/INTERPRETATION

See **Natural Resources - Human Dimensions of Natural Resource Management.**

ENVIRONMENTAL ETHICS

See **Philosophy.**

ENVIRONMENTAL LAW/ ENFORCEMENT

See *Natural Resources – Human Dimensions of Natural Resource Management.*

Environmental Studies

(College of Letters and Science)

Wm. John Coletta, Coordinator
Room 433, Collins Classroom Center
Phone: 715-346-4749
E-mail: jcoletta@uwsp.edu

Environmental Studies Minor

Consists of 24 credits:

1. **Core courses**, 6 credits:
 - a. Three credits from Biology 304, 305 (prereqs may count as electives), Natural Resources 150, 395, 474 or 478.
 - b. Three credits from English 363, 365, 392; OR History 366, 394; OR Philosophy 380.
2. **Required emphases**: 9 credits from the following in any **ONE** discipline. Note that all asterisk (*) courses may only be used for the environmental studies minor with approval of plans by the environmental studies coordinator **BEFORE** the semester and review of a portfolio of written work at the end of the semester.
 - a. Anthropology 342, 350, 373*, 395*, 499*.
 - b. Biology 304, 305, 308, 355, 405, 399*, 490*, 498*, 499*; (1 cr courses) 306, 384, 385, 386, 490*.
 - c. Economics 342, 299*, 315*, 374*, 490*, 495*.
 - d. English 358, 363, 365, 392, 383*, 390*, 399*, 498*.
 - e. Geography 302, 340, 344, 370, 372*, 373*, 391*, 3393*, 395*, 399*, 490*.
 - f. Geology 330, 370, 383, 475, 479, 295*, 391*, 393*, 395*, 480*.
 - g. History 366, 368, 394, 290*, 399*, 490*, 495*.
 - h. Philosophy 380, 381, 395*, 399*, 490*, 499*.
 - i. Political Science 304, 308*, 314*, 320*, 376*, 396*, 455*, 490*, 498*, 499*.
 - j. Sociology 355, 356, 360, 312*, 327*, 357*, 373*, 395*, 497*.
3. **Electives**: 9 additional credits from any courses listed above or Art 346, Education 350, Natural Resources 150, 300, 395, 475, 478. Note that Chemistry 101, 105 and/or 106 may count as electives with prior permission of the environmental studies coordinator.

ETHNIC STUDIES

See *History* and *Sociology* and *Native American Studies*.

EXCEPTIONAL EDUCATION

See *Education*.

Experiential Learning Program

Sharon Knopf, Coordinator
Room 103, Student Services Center
Phone: 715-346-3361
E-mail: sknopf@uwsp.edu

The Experiential Learning Program allows you to receive credit for college-level learning obtained outside the traditional academic setting. Credit is not granted simply for experience, but rather for the learning obtained from the experience. The learning is judged to be equivalent to knowledge you would gain through UWSP coursework.

Prior learning may be evaluated by techniques such as an interview, demonstration, portfolio assessment, or other methods where appropriate for specific courses, College Level Examination Program (CLEP) examinations and challenge examinations offered by various departments.

After you have been formally admitted to the university you can request an evaluation of experiential learning for credit. Please follow this procedure:

1. Contact the Experiential Learning Coordinator (ELC) who will help you identify the competencies you have acquired, and decide which credits might be sought by prior learning assessments and/or by more traditional means. Have transcripts that certify formal educational experience sent to the Admissions Office.
2. After you and the ELC have determined which credits are to be sought, you will need to consult with the chair(s) of the involved department(s) concerning the preparation and documentation of the necessary materials relating to your adult learning experiences. You will want to consult with your academic adviser and may consult with the ELC as you develop the materials requested by the involved department(s) concerning the competencies you believe you have already acquired.
3. Following preparation of the portfolio(s), take the materials to the chair(s) of the involved department(s). This begins the evaluation phase of the process. The chair may assign a faculty member and/or a committee to assess your portfolio.
4. After the evaluation is complete, a written recommendation for or against the award of credit, the amount of credit, and the level of credit, will be submitted to the chair of the appropriate department for approval or disapproval. The chair will forward the material and final recommendation to the ELC.
5. The ELC will notify you and the Records Office of the award of credit, which will be entered into your permanent record. A fee of \$50 for 12 or fewer credits, or \$100 for 13 or more credits will be assessed.

Evaluation of prior learning takes time. Please do not assume that the evaluation can be completed during the semester you apply. It may take several weeks or months.

FAMILY & CONSUMER EDUCATION

See *Health Promotion and Human Development*.

FIELD EXPERIENCES

See the student teaching and teacher certification sections in *Education*.

FILM

See *Communication*.

Fine Arts

FA 116. The Arts: Exploration, Appreciation, Integration. 3 cr. Knowledge and perspectives for integrating the arts into K-12 classrooms. Contemporary and historical "performance pieces" encompassing many art forms. Includes journals, notebook research, collaborative and small group art/music/theatre/dance curriculum projects. Also the arts' role in society for the child; student as consumer.

FISHERIES

See *Natural Resources-Water Resources*.

FOOD AND NUTRITION

See *Health Promotion and Human Development*.

Foreign Languages (College of Letters and Science)

Richard Ruppel, Chair
Room 490, Collins Classroom Center
Phone: 715-346-3036
E-mail: forlang@uwsp.edu
Web: www.uwsp.edu/forlang

Faculty: E Armacanqui-Tapacti, R Barker, D Breining, R Craig-Odders, B David, M Parker, R Price, R Ruppel, J Seiler, M Seiler, A Toumi.

The Department of Foreign Languages offers courses in Chinese, French, German, Japanese, Russian, and Spanish, and Teaching English as a second language.

Placement/Advanced Standing

When you enter UW-Stevens Point as a freshman or transfer student and elect to take courses in French, German, Russian, or Spanish, you are required to take the UW System placement examination. It works out best if you make arrangements with your guidance office to take this exam before your assigned registration day. After you take the exam you will be placed in the appropriate foreign language course according to the following rules.

1. On the basis of the exam the department will grant up to 16 credits for foreign language courses you completed in high school. Then you must complete the course into which you are placed with a grade of B- or better to receive the retroactive credits.
2. The department may also grant credit for language proficiency you have gained through nonacademic means. After you take the placement exam you must complete the course into which you are placed with a grade of B- or better to receive credit for prerequisite courses which you have not taken formally.

Please realize that the department will not recommend granting credit for high school work or other language proficiency until AFTER you have completed a foreign language course on this campus.

There may be other situations where students who demonstrate proficiency in foreign language will be placed in the appropriate foreign language course by the department.

Foreign Language Major (French, German, Spanish)

Consists of 24 credits in courses at the 300 and 400 levels, including 313, 314, 317, 381 (or in Spanish, 382 or 383), 340, and one literature course beyond 340.

Foreign Language Major (General) for Teacher Certification

Consists of 30 credits in 300/400 level courses, including:

1. 313, 314, 317, 320, 340.
2. One literature course beyond 340.
3. One of 381, 382, or 383.
4. Two electives chosen from literature or culture courses.
5. Foreign Language Ed 333.
6. Foreign Language Ed 398 or 498 taken concurrently with Foreign Language Ed 400.

Foreign Language Major with a Concentration in Culture Studies

Consists of 30 credits: 15 credits of language and literature at the 300 and 400 levels, including 313, 314, 317, and 340; and 15 credits of culture studies, including 6 credits of 381, (or in Spanish, 382 or 383), and 9 credits in coursework outside the department, selected with adviser approval.

Foreign Language Major with Concentration in Culture Studies for Teacher Certification

Consists of 36 credits:

1. Language and literature, 18 credits at the 300/400 level, including 313, 314, 317, 320, 340.
2. One additional literature course beyond 340.
3. Culture studies, 15 credits including 6 credits from 381, 382, or 383.
4. Collateral courses, 9 credits from outside the department selected with adviser approval.
5. Foreign Language Ed 333.
6. Foreign Language Ed 398 or 498 taken concurrently with Foreign Language Ed 400.

Foreign Language Minor

1. **French:** Consists of 15 credits in courses at the 300/400 level, including 313, 314, 340, and a culture or advanced literature course.
2. **German:** Consists of 15 credits in courses at the 300/400 level, including 313, 314, 340, and a culture or advanced literature course.
3. **Spanish:** Consists of 15 credits in courses at the 300/400 level, including 313, 314, 340, and a culture or advanced literature course.

Foreign Language Minor for Teacher Certification (Elementary)

If you are an **elementary education major** and do not intend to be certified to teach a foreign language in middle school, you may complete the regular 15-credit academic minor above instead of the minor for teacher certification.

Foreign Language Minor for Teacher Certification

Consists of 21 credits in courses at the 300/400 level:

1. 313, 314, 317, 320, 340.
2. One of 381, 382, or 383.
3. Foreign Language Ed 333.
4. Foreign Language Ed 398 or 498 taken concurrently with Foreign Language Ed 400.

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Foreign Language Concentration in the Business Administration Major (French, German, Spanish)

See **Business and Economics** earlier in this catalog.

The area of concentration in a foreign language provides a cross-cultural experience for students planning to work in international or multicultural environments. The area of concentration emphasizes practical language skills and knowledge of appropriate cultural forms and behavior.

Teaching English as a Second Language Minor (TESL)

NOTE: Enrollment caps are in effect for students seeking ESL certification. We process applications for admission February 22 and September 22. Contact the Department of Foreign Languages for more information on admission policies.

The TESL minor consists of 24-26 credits. You must take the TESL minor in conjunction with teaching majors in early childhood, elementary education, or secondary teaching majors in math, science, English or social studies. Foreign language and special education teaching candidates may meet the content requirement by completing the equivalent of a minor in math, science, English or social studies.

1. Proficiency in English: Attain the minimum scores required by the Wisconsin Department of Public Instruction on verbal and reading sections of the PPST.
2. Two semesters of college-level foreign language (8 credits) or equivalent high school or other experience demonstrated by test-out.
3. Required.
 - a. Three credits from English 342, 344, 345.
 - b. Communicative Disorders 266 or English 240.
 - c. Three credits from Anthropology 110, 280, 335; French 381 with subtitle "Francophone Culture and Civilization in North America"; History 130, 352; Political Science 315; Psychology 322; Sociology 270, 327, 343; Spanish 381, 382, 383.
 - d. With adviser approval take 7-9 credits as follows:
 - 1) One course from English 200, 274, 275, 375.
 - 2) For K-9 certification take Education 309, 310.
 - 3) For 6-12 certification take two courses from English 355, 356, 381 or 386.
 - e. Foreign Language Ed 344; and 398 or 498.

English as a Second Language Minor without Certification

Consists of 24-26 credits.

1. Prerequisites.
 - a. Demonstrated proficiency in English.
 - b. Two semesters of college-level foreign language (8 credits) or equivalent high school experience demonstrated by test-out.
2. Required.
 - a. Three credits from English 342 or 344.
 - b. Three credits from Communicative Disorders 266, English 240, or Anthropology 280.
 - c. With ESL adviser approval, choose one course from Anthropology 110, 355; French 381; German 381; History 108, 120, 216, 220, 253, 254, 340, 346, 348, 350, 352; International Studies 101; Religious Studies 100; Sociology 343; Spanish 381, 383.
 - d. One course from English 200, 211, 212, 213, 214, 275, 375, or Comparative Lit 101, 102.

- e. Foreign Language Ed 333 or 344 (with ESL adviser approval).
- f. Foreign Language Ed 397, 1-3 credits.

Academic Standards (Teaching)

Admission caps are in effect for students seeking teacher certification in foreign languages. Applications for admission are processed February 22 and September 22. Contact the Department of Foreign Languages for more information on admission policies.

To be eligible to student teach in foreign languages, you must complete the teaching major or minor with an overall grade point average of 3.0 in all college level courses taken in the language you plan to teach, regardless of declaration of academic bankruptcy, and a minimum grade of B in the foreign language methods course (FLED 333). In addition you must fulfill the following special requirements.

1. **Residence:** You must complete an appropriate period of residence in a country where the language is spoken, or participate in an alternative language immersion experience approved by the department. All teacher candidates in foreign language should participate in a language-based semester study abroad program, such as those offered by UWSP in France, Germany, and Spain, or a junior year abroad. With prior department approval you may substitute alternative experiences such as immersion programs or summer study abroad.
2. **Oral and Written Proficiency:** To be eligible to student teach a foreign language at elementary, middle, or secondary level, you must pass oral and written proficiency tests given by the department before your application to student teach will be approved.
3. **Student Teaching:** The chair of the Department of Foreign Languages and the director of the Office of Field Experiences approve student teaching programs. You register for Foreign Language Ed 398 (1-16 credits), Foreign Language Ed 400 (1-2 credits), and receive an assignment at the grade level for which you are seeking certification.
4. **Professional Education Program:** Requirements for the Professional Education Program are listed in the **Education** section earlier in this catalog.

Academic Standards (Nonteaching)

To graduate with a nonteaching major or minor in the Department of Foreign Languages, you must have a 2.0 cumulative GPA in all courses for the major/minor, including transfer courses, regardless of any declaration of academic bankruptcy. To be certified to teach a foreign language, you must complete the teaching major or minor with a 3.0 cumulative GPA in all college level courses taken in the language you plan to teach, regardless of academic bankruptcy. See the **More Academic Information** section of this catalog for the course repeat policy.

Courses in foreign languages are open to all students who meet the prerequisites. If you are not accepted into teacher certification programs, you must have written consent from the chair to enroll in teaching methods courses.

Test-Out and Credit-by-Exam Policy

You may also test-out of or receive credit-by-exam for foreign language courses beyond 212 which fulfill the humanities category of the general degree requirements. To test-out, you must pass with a grade of B- or higher both written and oral examinations in the foreign language on the subject matter of the course. For credit-by-exam, you

must 1) pass both written and oral examinations in the foreign language with a grade of B or higher and 2) submit a paper on an assigned topic, for which you receive a grade of B or higher. Arrange for examinations on an individual basis with the department chair.

Courses in Foreign Language (General Courses)

See also listing under *Courses in Foreign Language Education*, below.

FLG 100. Basic Conversation Skills. 1-3 cr. Subtitle will indicate the language. Develop basic conversation skills in everyday practical contexts. May earn 3 cr max under each subtitle. Does not count toward foreign language general degree requirements, major or minor.

FLG 199/299. Independent Study. 1-4 cr each. Individual study of foreign language under faculty supervision. Prereq: Cons chair.

FLG 340/540. Special Language Studies. 1-3 cr. Special focus on some aspect of a language or the relationship between two or more languages. Subtitle will designate area. May repeat with different subtitles. Prereq: One year foreign language study.

FLG 381. Culture and Civilization. 2 or 3 cr. Subtitle will indicate focus. May repeat for credit with different subtitles. May count toward a major or minor in foreign language with cons chair. GDR:HU4

FLG 399. Independent Study. 1-4 cr each. Individual study of foreign language under faculty supervision. Prereq: Cons chair.

FLG 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization; regular conferences with staff supervisor.

Foreign Language Latent Course: Not offered recently. Full description in (xx-xx) catalog.

499 Independent Study, 1-4 cr, (01-03)

Courses in Foreign Language Education

FLED 333/533. Teaching Second Languages. 3 cr. Second language acquisition theories, methods, techniques, planning, organization, assessment, and field experiences in teaching foreign languages in elementary, middle, and secondary schools. Prereq: Jr st and admission to Prof Ed Prog, or cons instr.

FLED 344/544. Teaching English as a Second Language. 3 cr. Theories of second language acquisition; methods, techniques, planning, organization, assessment, and field experiences in teaching ESL. Prereq: Jr st and admission to Prof Ed Prog, or cons instr.

FLED 345/545. Methods in Bilingual Education. 1-3 cr. First and second language acquisition theories, program methods, instructional practices, curriculum design, and assessment in bilingual education. Prereq: Jr st and admission to Prof Ed Prog, or cons instr.

FLED 397. Practicum. 1-3 cr. Students may arrange for supervised practical experience as tutors, teacher's aides, etc. with cons instr and chair. Approx 45 hrs practice per cr. Subtitles will identify practicum.

FLED 398. Student Teaching in Foreign Language. 1-16 cr; pass/fail. Observation and teaching in secondary school classrooms under the guidance of cooperating teachers and university faculty. Subtitle will indicate specialization: French, German, Spanish, or English as a second language. Prereq: Completion of all methods courses and 75% of content courses in approp major. Con reg in approp section of Educ 400 may be required.

FLED 399/599. Special Work. 1-3 cr. Individual study in second language teaching methods under faculty supervision. Prereq: Cons chair and instr.

FLED 400. Seminar on Teaching for Student Teachers. 1-2 cr; pass/fail. Structured group discussions for middle-level and secondary student/intern teachers on aspects of teaching that emerge during student teaching experience. Prereq: Con reg in 398 or 498.

FLED 498. Intern Teaching. Variable cr; pass/fail. Structured field experiences in approved school programs. Interns are certified by the DPI and are employed under contract with schools to design, deliver, and assess instructional programs in grades n-k-12. Prereq: Completion of all methods courses and 75% of content courses in approp major. Con reg in approp section of Educ 400 may be required.

FLED 733. Workshop in Second Language Education. 1-3 cr. Problems of teaching second languages in elementary and secondary schools. Subtitle will designate area. Prereq: Advanced standing in

foreign language ed or English as a second language curriculum, or teaching experience.

FLED 795. Practicum in Teaching ESL. 1-3 cr. Teach ESL learners and develop instructional activities using appropriate methods. May take twice with cons instr. Prereq: 544, cons instr.

Courses in Chinese

CHIN 101(NW). First Year Chinese. 4 cr. Elementary modern Mandarin, for students with no previous training in the language. GDR:FL BA BM/BFA

CHIN 102(NW). First Year Chinese. 4 cr. Continuation of 101. Prereq: 101 or equiv. GDR:FL BA BM/BFA

CHIN 200/300; 201/301. Continuing Chinese. 4 cr each. Intermediate modern Mandarin. Further refinement of all language skills. Intermediate to advanced grammar development; knowledge of Chinese characters; development of reading and writing skills. Placement level by ability. Prereq: 102 for 200; 200 for 201; 201 for 300; 300 for 301.

Courses in French

FREN 101. First Year French. 4 cr. For students with no previous training in the language, or by placement exam. GDR:FL BA BM/BFA

FREN 102. First Year French. 4 cr. Continuation of 101. Prereq: 101, or by placement exam. GDR:FL BA BM/BFA

FREN 211. Second Year French. 4 cr. Intensive grammar review in reading and speaking. Prereq: 102, or by placement exam.

FREN 212. Second Year French. 4 cr. Continuation of 211. Prereq: 211, or by placement exam.

FREN 313. Intermediate Conversation. 3 cr. Prereq: 212, or by placement exam.

FREN 314. Intermediate Composition. 3 cr. Prereq: 212, or by placement exam.

FREN 317. Advanced Conversation and Composition. 3 cr. Subtitle will designate focus. May repeat once for credit with different subtitle. Prereq: 313 and 314, or cons chair.

FREN 318. French for the Professions. 3 cr. General knowledge of writing and reading material associated with the professions in French, emphasizing cultural differences between the U.S. and other countries. Example: writing business letters and preparing business-related documents. Subtitle will designate focus. May repeat for credit once with different subtitle. Prereq: 313 and 314, or cons instr.

FREN 320. Phonetics and Diction. 3 cr. Prereq: 212, or by placement exam.

FREN 340. Introduction to French Literature. 3 cr. Intensive reading in French literature, methods of literary analysis of various genres; introduction to fundamental techniques of literary criticism. Subtitle will designate area. May repeat for credit with different subtitles. Prereq: 313 and 314. GDR:HU2

FREN 341. Survey of French Literature. 3 cr. French literature to 1800. Prereq: 340 or cons instr.

FREN 342/542. Survey of French Literature. 3 cr. 19th century French literature to the present. Prereq: 340 or cons instr.

FREN 350. 17th Century Literature. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr.

FREN 355. 18th Century Literature. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr.

FREN 360. 19th Century Literature. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr.

FREN 370/570. 20th Century Literature. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr.

FREN 381/581. French Culture and Civilization. 3 cr. Subtitle will indicate focus. May repeat for credit with different subtitles. Prereq: 340 or cons instr. GDR:HU4

FREN 493/693. Specialized Studies in French Literature. 1-3 cr. Subtitle will designate focus such as: literary genre or group, recurrent literary theme, single author, comparison of two authors. Prereq: 300-level French literature course, or cons instr.

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FREN 499. Independent Study. 1-4 cr. Individual study under faculty supervision. Prereq: Cons chair.

French Latent Course: Not offered recently. Full description in (xx-xx) catalog.

542 Survey of French Literature, 3 cr, (91-93)

Courses in German

GERM 101. First Year German. 4 cr. For students with no previous training in the language, or by placement exam. GDR:FL BA BM/BFA

GERM 102. First Year German. 4 cr. Continuation of 101. Prereq: 101, or by placement exam. GDR:FL BA BM/BFA

GERM 211. Second Year German. 4 cr. Intensive grammar review. Prereq: 102, or by placement exam.

GERM 212. Second Year German. 4 cr. Continuation of 211. Prereq: 211, or by placement exam.

GERM 313. Intermediate Conversation. 3 cr. Prereq: 212, or by placement exam.

GERM 314. Intermediate Composition. 3 cr. Prereq: 212, or by placement exam.

GERM 317. Advanced Conversation and Composition. 3 cr. Subtitle will designate focus. May repeat once for credit with different subtitle. Prereq: 313 and 314, or cons chair.

GERM 318. German for the Professions. 3 cr. General knowledge of writing and reading material associated with the professions in German, emphasizing cultural differences between the U.S. and other countries. Example: writing business letters and preparing business-related documents. Subtitle will designate focus. May repeat for credit once with different subtitle. Prereq: 313 and 314, or cons instr.

GERM 320. Phonetics and Diction. 3 cr. Prereq: 212, or by placement exam.

GERM 340. Introduction to German Literature. 3 cr. Intensive reading, methods of literary analysis of various genres; introduction to fundamental techniques of literary criticism. Subtitle will designate area. May repeat ONCE for credit with a different subtitle. Prereq: 313 and 314. GDR:HU2

GERM 355. 18th Century Literature. 3 cr. Selected readings. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr.

GERM 360. 19th Century Literature. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr.

GERM 370/570. 20th Century Literature. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr.

GERM 381/581. German Culture and Civilization. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr. GDR:HU4

GERM 493/693. Specialized Studies in German Literature. 1-3 cr. Subtitle will designate focus such as: literary genre or group, recurrent literary theme; single author, comparison of two authors. Prereq: One 300 level German literature course and cons instr.

GERM 499. Independent Study. 1-4 cr. Individual study under faculty supervision. Prereq: Cons chair.

German Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

243 German Literature in Translation, 3 cr, (83-85)

442 Survey of German Literature, 3 cr, (83-85)

Courses in Japanese

JAPN 101(NW). First Year Japanese. 4 cr. For students with no previous training in the language or by placement. GDR:FL BA BM/BFA

JAPN 102(NW). First Year Japanese. 4 cr. Continuation of 101. Prereq: 101 or by placement exam. GDR:FL BA BM/BFA

JAPN 211(NW). Second Year Japanese. 4-5 cr. Intensive grammar review, practice in reading and speaking Japanese. Prereq: 102 or by placement exam.

JAPN 212(NW). Second Year Japanese. 4-5 cr. Continuation of 211. Prereq: 211 or by placement exam.

JAPN 313(NW). Intermediate Conversation and Composition. 3-5 cr. Continuing development of listening, speaking, reading and writing skills; grammar review. Prereq: 212 or by placement exam.

Courses in Menominee

Menominee Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

101 Beginning Menominee Language, 4 cr, (93-95)

102 Beginning Menominee Language, 4 cr, (93-95)

Courses in Polish

PLSH 101. First Year Polish. 4 cr. For students with no previous training in the language. GDR:FL BA BM/BFA

PLSH 102. First Year Polish. 4 cr. Continuation of 101. Prereq: 101, or equiv. GDR:FL BA BM/BFA

Polish Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

211 Second Year Polish, 4 cr, (97-99)

212 Second Year Polish, 4 cr, (97-99)

293 Specialized Studies in Polish, 1-3 cr, (97-99)

300 Continuing Polish, 4 cr, (97-99)

301 Continuing Polish, 4 cr, (97-99)

Courses in Russian

RUSS 101(NW). First Year Russian. 4 cr. For students with no previous training in the language. GDR:FL BA BM/BFA

RUSS 102(NW). First Year Russian. 4 cr. Continuation of 101. Prereq: 101, or by placement exam. GDR:FL BA BM/BFA

RUSS 211(NW). Second Year Russian. 4 cr. Intensive grammar review, practice in reading and speaking Russian. Prereq: 102, or by placement exam.

RUSS 215(NW) Continuing Russian. 4 cr. Intermediate-level grammatical structures for reading; the roots of Russian; verbs of motion. Subtitle will designate area. Prereq: 211.

RUSS 216(NW). Continuing Russian. 4 cr. Intermediate-level study of practical situations in Russian. Forms and culture of business and other language etiquette in Russian. Subtitle will designate area. Prereq: 211.

RUSS 315(NW). Continuing Russian. 4 cr. Advanced intermediate work. Content is varied so this course, as well as 215, can be taken by continuing students. Subtitle will designate area. Prereq: 216.

RUSS 316(NW). Continuing Russian. 4 cr. Advanced intermediate work. Content is varied so this course, as well as 216, can be taken by continuing students. Subtitle will designate area. Prereq: 215.

Russian Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

360 19th Century Literature, 3 cr, (01-03)

370 20th Century Literature, 3 cr, (01-03)

381 Russian Culture and Civilization, 3 cr, (01-03)

493 Specialized Studies in Russian Literature, 1-3 cr, (01-03)

499 Independent Study, 1-4 cr, (01-03)

Courses in Spanish

SPAN 101. First Year Spanish. 4 cr. For students with no previous training in the language, or by placement exam. GDR:FL BA BM/BFA

SPAN 102. First Year Spanish. 4 cr. Continuation of 101. Prereq: 101, or by placement exam. GDR:FL BA BM/BFA

SPAN 211. Second Year Spanish. 4 cr. Intensive grammar review, practice in reading and speaking Spanish. Prereq: 102, or by placement exam.

SPAN 212. Second Year Spanish. 4 cr. Continuation of 211. Prereq: 211, or by placement exam.

SPAN 313. Intermediate Spanish Conversation. 3 cr. Prereq: 212, or by placement exam.

SPAN 314. Intermediate Spanish Composition. 3 cr. Prereq: 212, or by placement exam.

SPAN 317. Advanced Conversation and Composition. 3 cr. Subtitle will designate focus. May repeat once for credit with different subtitle. Prereq: 313 and 314, or cons chair.

SPAN 318. Spanish for the Professions. 3 cr. General knowledge of writing and reading material associated with the professions in Spanish-speaking countries, emphasizing cultural differences between the U.S. and other countries. Example: writing business letters and preparing business-related documents. Subtitle will designate focus. May repeat for credit once with different subtitle. Prereq: 313 and 314, or cons instr.

SPAN 320. Phonetics and Diction. 3 cr. Prereq: 212, or by placement exam.

SPAN 340. Introduction to Literature. 3 cr. Intensive reading, methods of literary analysis of various genres; introduction to fundamental techniques of literary criticism. Subtitle will designate area. May repeat once for credit with a different subtitle. Prereq: 313 and 314. GDR:HU2

SPAN 341. Survey of Spanish Literature. 3 cr. Spanish literature from the earliest works to 1800. Prereq: 340 or cons instr.

SPAN 342. Survey of Spanish Literature. 3 cr. Spanish literature from 1800 to the present. Prereq: 340 or cons instr.

SPAN 353. Survey of Spanish American Literature. 3 cr. From chronicles to modernism. Prereq: 340 or cons instr.

SPAN 354. Survey of Spanish American Literature. 3 cr. From modernism to the present. Prereq: 340 or cons instr.

SPAN 381. Spanish Culture and Civilization. 3 cr. Subtitle will designate focus. May be repeated for credit with different subtitles. Prereq: 340 or cons instr. GDR:HU4

SPAN 382(MNS). Hispanic Culture and Civilization in the U.S. 3 cr. The historical background, current status, literary and artistic works of Mexican-American, Puerto Rican, and Cuban-American residents of the continental United States. Prereq: 340 or cons instr. GDR:HU4

SPAN 383(NW). Spanish American Culture and Civilization. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr. GDR:HU4

SPAN 460. 19th Century Spanish Literature. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 331, or one 300-level Spanish literature course, or cons instr.

SPAN 470/670. 20th Century Spanish Literature. 2-3 cr. Selected readings. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 331, or one 300-level Spanish literature course, or cons instr.

SPAN 471. 20th Century Spanish-American Literature. 2-3 cr. Selected readings. Subtitle will designate focus. May be repeated for credit with different subtitle. Prereq: 340 or cons instr.

SPAN 480(MNS). La Literatura de Los Chicanos. 3 cr. Advanced literary analysis of Chicano poetry, narrative, drama, and essays. Prereq: One 300-level Spanish literature course or cons instr.

SPAN 490. Los Dramas de La Latinoamerica Contemporanea. 3 cr. Advanced literary analysis of one-act contemporary Latin American dramas. Prereq: One 300-level Spanish lit course, or cons instr.

SPAN 493/693. Specialized Studies in Spanish or Spanish-American Literature. 1-3 cr. Subtitle will designate focus such as: literary genre or group, recurrent literary theme, single author, comparison of two authors. May repeat for credit with different subtitle. Prereq: One 300 level Spanish literature course or cons instr.

SPAN 499. Independent Study. 1-4 cr. Individual study under faculty supervision. Prereq: Cons chair.

Spanish Latent Course: Not offered recently. See (xx-xx) catalog. 451/651 Cervantes, 3 cr., (01-03)

FOREST PRODUCTS

See *Natural Resources - Forestry.*

FOREST RECREATION

See *Natural Resources - Forestry.*

FORESTRY

See *Natural Resources.*

FRENCH

See *Foreign Languages.*

GENDER STUDIES

See *Women's Studies.*

GENERAL DEGREE REQUIREMENTS

See *General Degree Requirements* earlier in this catalog.

GENERAL SCIENCE

See *Natural Science.*

General Studies

(College of Letters and Science)

Student Academic Advising Center
Room 103, Student Services Center
Phone: 715-346-3361
E-mail: acadadv@uwsp.edu

General Studies Major (BA or BS)

Consists of a minimum of 39 credits. Note that prerequisites for some courses may increase the number of credits needed. Complete ONE option below.

A. Contemporary America Option

- Fundamental requirements.** 6 cr. Take one course from two areas below.
 - Communication 280.
 - Computer Information Systems 300.
 - English 250, 351, 253, 254.
- Social science foundations.** 18 cr. Take one course from four areas below. Take remaining two courses from any area.
 - Anthropology 339, 371.
 - Economics 272, 311, 328*, 342.
 - Geography 211, 226.
 - Political Science 101, 202, 212, 310, 320.
 - Psychology 240, 290, 320, 322.
 - Sociology 265, 270, 300, 328*, 343, 355, 356, 357, 360, 366.
 - Women's Studies 105.

*May not take both Econ 328 and Sociology 328.

- Humanities/arts foundations.** 15 cr. Take one course from each area below. Take remaining course from any area.
 - American Literature: English 214, 280, 282, 313b, 382.
 - American History: History 130, 212, 360, 378, 379, 382, 385.
 - Philosophy/Religious Studies: Philosophy 220, 380, 381; Religious Studies 302, 310, 311, 316.
 - Arts: Art 181; Dance 352; Music 102, 105, 329.
- Electives.** To meet the 40 credit upper level requirement and the 120 credit minimum for graduation, you may select courses from any area above or any area that will add to your educational goals.
- Senior Experience.** See below.

B. Exploring the Contemporary World of Work Option

- Fundamental requirements.** 18-19 cr. Take at least one course from four areas below. Take remaining courses from any area.
 - Accounting 210; Business 380; Econ 210.
 - Computer Information Systems 115, 300.
 - Communication 240, 280.
 - English 250, 351, 253, 254.
 - Philosophy 121.
 - Statistics, 4 cr, choose one: Econ 310; Math 355; Psychology 300; Sociology 351.
- Area of emphasis.** 21 cr. Take at least three courses from one emphasis below. Take remaining courses from any emphasis.
 - Business emphasis:** Business 330, 340, 350, 360, 370.
 - International emphasis:** History 102; Business 339; Econ 362, 365, 367; English 378; Geography 110, 113, 300; History 330, 332, 340, 346, 348, 352; Political Science 160, 180, 361, 362, 370, 371, 376, 383, 385; Psychology 320, 322.

- c. **Language emphasis:** At least 9 credits in one language beyond the 212 level.
 - d. **Government emphasis:** Political Science 202, 242, 250, 354, 356, 358.
 - e. **Psychology/sociology emphasis:** Psychology 250, 260, 301, 345, 351, 385; Sociology 230, 308, 310, 322, 327, 368.
3. **Electives.** To meet the 40 credit upper-level requirement and the 120 credit minimum for graduation, you may select courses from any area above or any area that will add to your educational goals.
 4. **Senior experience.** See below.

Senior Experience

Required during the final 30 credits before graduation. This capstone program gives you the opportunity to apply expertise learned in the major and encourages you to become actively involved in either the discipline or your community. Select 1. or 2. below. You may collaborate with other students with the coordinator's approval.

1. **Independent study:** 1-3 credits in one discipline in the major approved by the coordinator. Significant research paper or similar product, supervised and approved by an adviser in the discipline. Topic should provide continuity and bring closure to the major.
2. **Independent study:** 1-3 credits of a project approved and supervised by the coordinator, such as a community problem, that relates coursework from the major to your life experiences.

Academic Standards

To graduate with a major in general studies you must have a cumulative GPA of 2.00 in all courses required for the major, including transfer courses, regardless of any declaration of academic bankruptcy. See the section in the catalog entitled **More Academic Information** for the policy on repeating courses.

Test-Out and Credit-by-Exam Policy

You may test-out and/or receive credit-by-exam for all general degree requirement (GDR) courses. To test-out but not receive credit for all other courses in the major, please consult with the general studies coordinator. You may take an exam for credit or test-out only once.

Collaborative Degree Program

The general studies major is part of the Collaborative Degree Program where students may attend evening classes at any of several campuses. For information call 1-888-314-2327 or 715-346-3860.

Courses in General Studies

GENS 395. Topics In General Studies. 3 cr. Subtitle will designate discipline and topic. May repeat under different subtitles for 9 cr max.

GENS 399. Independent Study for Senior Experience. 1-3 cr. Capstone experience for general studies major. Define, devise and pursue individual paper or project integrating disciplines from the major. Individual faculty supervision. Prereq: Cons gen studies coord.

Geography (College of Letters and Science)

Benjamin Ofori-Amoah, Chair of Geography/Geology Department
Room D-332, Science Building
Phone: 715-346-2629
E-mail: geoggeol@uwsp.edu
Web: www.uwsp.edu/geo

Faculty: S Engel-Di Mauro, K Hefferan, N Heywood, E Larsen, K Lemke, G Meyer, B Ofori-Amoah, D Ozsvath, K Rice, M Ritter, K Ryavec.

Definition: Geography is the science of place and space. Geographers ask where things are located on the surface of the earth, why they are located where they are, how places differ from one another, and how people interact with the environment.

Geography Major

Consists of a minimum of 44 credits including the required core courses and one of the three options listed below. Note that if you elect to pursue more than one option in the major, it may extend your time to degree.

Required core courses, 26 credits: Geography 101, 120, 276, 279, 380, 390, 490 or 491, and Math 355.

Select one option:

1. **Physical Environment option:**
 - a. Geography 340 or 344; two of 352, 353 and 358; 377 or 379 or 476.
 - b. Additional credits selected from the following list to total 40 credits in Geography/Geology (plus Math 355): Geography 329, 340, 342, 344, 352, 353, 354, 358, 371, 377, 379, 393 (physical geog topics, 3 cr max), 476; Geology 330, 370, 393 (3 cr max).
 - c. Recommended courses: Biology 305; English 254; Geology 320; History 366; Philosophy 380; Political Science 304; Computer Information Systems 101-102.
2. **Cartographic option:**
 - a. Geography 376 or 386, 377, 379, 382, and 476.
 - b. Additional geography courses to total 40 credits (plus Math 355).
 - c. Recommended courses: Geography 376 or 386 (whichever was not taken in a. above), 479; Computer Information Systems 101-102, 210; additional upper-level coursework in physical, human, and/or regional geography.
3. **Regional Analysis and Community Development option:**
 - a. Geography 110, 373, 476, 495, 496.
 - b. Additional credits selected from the following to total 40 credits (plus Math 355): Geography 300, 301, 303, 328, 329, 340, 342, 344, 369, 370, 371, 372, 374, 377, 378, 379, 382.
 - c. Recommended courses: Geology 330; Business 331; Economics 100, 310, 374; Natural Resources 480; Sociology 356, 357; Political Science 242, 341, 356, 358, 397; Computer Information Systems 101-102.

Geography Major for Teacher Certification

Geography 101, 110, 113, 120, 211, 276, 380 must be taken as part of or in addition to one of the options in the geography major listed above.

NOTE: Enrollment caps are in effect for those seeking teacher certification. Please contact the Department of Geography/Geology early for entrance requirements and application procedures. Also see information about the Professional Education Program and the secondary education curriculum for teacher certification in the **Education** section of this catalog.

Geography Minor

Consists of 22 credits of which at least 6 credits must be 300-level or above.

1. Geography 101 and 120.
2. At least one course from each of the following groups:
 - a. Geography 110, 113, 211, 226, 300, 301, 302, 327, 328.
 - b. Geography 329, 340, 342, 344, 369, 370, 371, 372, 373, 374.
3. Additional geography credits to total 22.

Geography Minor for Teacher Certification

Consists of Geography 101, 110, 113, 120, 211, 276, 380. See the note above regarding enrollments caps for teacher certification.

Academic Standards for Geography Major and Minor

1. To be admitted, retained, and approved for graduation as an approved geography major or minor, you must have a minimum cumulative grade point average of 2.50 (2.75 to student teach in geography) for all courses taken within the major or minor, including collateral courses and regardless of a declaration of academic bankruptcy.
 - a. You must complete Geography 101 and 120 before you declare your major or minor.
 - b. If you transfer and have no credits earned at UWSP in the major or minor, you will be a provisional major or minor until you complete the minimum requirements.
 - c. If you do not meet the minimum requirements, you must have written approval of the department chair to be a provisional major or minor.
 - d. You will be admitted as an approved major or minor once you meet the minimum requirements.
2. If you do not maintain a 2.50 GPA, you will be placed on geography probation and will have two semesters to restore your GPA. If you fail to do so, you will be dropped from the major or minor. The department will attempt to notify and consult with students who are at or below a 2.50 GPA. However, it is your responsibility to know your own GPA status.
3. Majors must have an adviser in the department. Any department faculty member may advise a geography major. You must file a major declaration form in the department office, keep it current, and confer with your adviser every semester.
4. You may repeat a course in the major or minor only if you follow the policy on repeating courses found in the **More Academic Information** section of this catalog.

5. Geography and geology courses taken at the 300 or 400 level on a pass/fail basis do NOT count toward the major or minor.

Geographic Information Systems and Spatial Analysis Minor (GISSA)

Consists of at least 22 credits:

1. Required core, 17 credits: Geography 276, 279, 377, 379, 476, 479.
2. Applied spatial statistics: 2-3 credits from Geography 390, Wildlife 311, Forestry 322, or courses approved by adviser and chair.
3. Three credits from Biology 306, 321; Business 339; Economics 342; Geography 344, 358, 370, 372, 378, 382, 480, 485; Geology 330; Forestry 319, 320, 385; Natural Resources 171, 363, 385, 444; Soils 360, 365; Water/Geology 383, 495; Wildlife 350; or courses approved by adviser and chair.
4. Geography majors with the cartography option may choose the GISSA minor, but must take an additional 6 credits from electives in 3 above.
5. Academic standards for GISSA minor.
 - a. To be admitted, retained, and approved for graduation as a GISSA minor, you must have a minimum cumulative GPA of 2.50 for all courses taken within the minor, including collateral courses and regardless of a declaration of academic bankruptcy.
 - b. You must have completed Geography 276 or 279 at time of declaration.
 - c. If you are a transfer student without credits earned at UWSP in the minor, you will be admitted as a provisional minor until you have completed the minimum requirements.
 - d. If you have not met the minimum requirements to be approved in the minor, you may be admitted as a provisional minor with written consent of the chair. You will be admitted as an approved minor once you meet the minimum requirements.
 - e. If you do not maintain a 2.50 GPA, you will be placed on probation for the minor and will have two semesters to restore your GPA. If you fail to do so, you will be dropped from the minor. The department will attempt to notify students of any changes in GPA status and consult with GISSA minors who are at or below the 2.50 GPA. However, it is your responsibility to know your own GPA status.

Test-Out and Credit-by-Exam Policy

The Department of Geography and Geology will offer test-out examinations for all of its general degree requirement courses including Geography 100, 101, 110, 113, 120, 211, 226, 300, and Geology 100, 104.

If you wish to take a test-out examination, first confer with the department chair. Then confer with the faculty member who most recently taught the course. The comprehensive written exam will be based on material normally covered in the course. The faculty member will notify you in writing before you take the exam of the required minimum passing score. You will receive your grade in writing within two weeks after taking the exam.

Credit will not be granted for Geography 100 and Geology 100, but you will receive a waiver for the corresponding GDR credits. Credit will be granted for all other geography and geology courses listed above. You may take a test-out exam only once.

Courses in Geography

GEOG 100. Physical Environment Under Stress. 3 cr. Physical geographic principles and processes applied to understand selected human impacts on atmosphere, water, land, and biota. Includes detailed, interdisciplinary analysis of several environmental problems, including causes, consequences, and solutions. GDR:NS-EL

GEOG 101. The Physical Environment. 5 cr. Introduction to modern physical geography: survey spatial distribution of the earth's physical characteristics, including weather and climate, water, soils, vegetation, and landforms; discuss environmental processes and interactions creating these physical geographic patterns; discuss importance to humans of the physical environment; use geographic tools including maps, air photos, and investigative techniques. 3 hrs lec, 4 hrs lab per wk; Possible field trip(s). GDR:NS

GEOG 110(NW). Global Economic Geography. 3 cr. Introductory survey of the distribution patterns and organization and conduct of world economic activities and related issues from a global perspective. Topics may include population, resources, transportation, agriculture, mining, forestry, fishing, manufacturing, services, trade, and economic development. Possible field trip(s). GDR:SS1

GEOG 113(NW). World Regional Geography. 3 cr. Survey major patterns of physical features, culture, and human-land relations by region in today's world; examples may show present and impending resource, environmental, social and political problems, and explore basic solutions. GDR:SS1

GEOG 120(NW). Cultural Geography. 3 cr. Examine components and spatial expressions of contemporary culture including patterns and problems of population, language, religion, urban and rural settlements, political and economic development from perspectives of diffusion, ecology, integration, landscape, and region. GDR:SS1

GEOG 198. Reading in the Discipline. 1 cr; pass/fail. Does not apply to geography major or minor. Prereq: Con reg in another designated geography course.

GEOG 211. Wisconsin. 2 or 3 cr. Geographic analysis of selected physical and cultural features. Prereq: So st. GDR:SS1

GEOG 226. United States and Canada. 3 cr. Geographic interpretation of cultural and physical features and regions. Prereq: So st. GDR:SS1

GEOG 276. Introduction to Cartography: Map Conceptualization and Development. 3 cr. The map production process, including rationale, graphic structure, data collection and organization, map layout, and final production. 2 hrs lec, 3 hrs lab per wk. Prereq: So st.

GEOG 279. Fundamentals of Geographic Information Systems. 2 cr. Definition and components of Geographic Information Systems (GIS) for resource management. Principles and structure of spatial data and cartographic modeling. Spatial data acquisition, manipulation, translation, aggregation, analysis, and presentation. Prereq: any geography, CNR or environmental science course.

GEOG 300/500(NW). Africa. 3 cr. Regional interpretation; distribution and activities of peoples in relation to physical and cultural patterns and various stages and problems of development. GDR:SS1

GEOG 301/501. Middle America. 3 cr. Mexico, Central America, and the Antilles: landforms, climate, natural vegetation, resources, population, historical evolution, political divisions, economic organization.

GEOG 302/502(NW). Southwest Pacific. 3 cr. Geography of Australia, New Zealand, and the Southwest Pacific Islands as conditioned by environmental circumstances, native and alien cultural influences, and political affiliations. GDR:SS1

GEOG 327/527. Asia. 3 cr. Physical features of the continent in relation to distribution of population, agriculture, industry, and trade.

GEOG 328/528. Europe. 3 cr. Distinctive features of Europe as a continent; physical and historical background; natural regions and their division into political units; the characteristics of each country. GDR:SS1

GEOG 329/529. Environmental Geography of Europe. 3 cr. Development of Europe as differentiated and unevenly integrated social ecosystems. Examine comparative environmental practices and policies. Prereq: 100 or 110, or cons instr. GDR:EL

GEOG 340/540. Processes of Environmental Degradation. 3 cr. Study why and how humans harm the physical environment; includes geographic, cultural, political, economic causes and consequences. Case studies from around the world. Possible field trip(s). GDR:NS

GEOG 342/542. Soils and Society. 3 cr. Geographical distribution of soils with interaction between human activities and soil dynamics; political economy of soil management; soil's functional relations to social systems and ecosystem components. Possible field trip(s). Prereq: 101 or Natural Resources 251 or cons instr. GDR:SS2

GEOG 344/544. Environmental Hazards. 3 cr. Human interaction with hazardous phenomena such as earthquakes, storms, and infectious diseases; spatial aspects of the social processes and perceptions creating risk and vulnerability in the environment; local hazards. Field trips may be required. Prereq: Jr st.

GEOG 352/552. Geomorphology. 3 cr. Characteristics, origin, and development of landforms. 2 hrs lec, 2 hrs lab per wk. Possible field trip(s). May not earn credit in both Geog 352 and Geol 352. Prereq: 101, or Geol 104, or cons instr.

GEOG 353/553. Physical Climatology and Meteorology. 3 cr. Radiation and energy balances; composition, characteristics, and circulation of the atmosphere. Introduction to weather map analysis and forecasting. Possible field trip(s). Prereq: 101 or cons instr.

GEOG 354/554. Climatology. 3 cr. Examine world climatic patterns, climate classification, air pollution climatology, and global climate change. Possible field trip(s). Prereq: 101 or cons instr.

GEOG 358. Biogeography. 3 cr. Examine spatial and temporal patterns of plants, animals, and microbes with emphasis on dynamic relationships between life form, population, and habitat. Significance of biotic distributions on human affairs and human impacts on biosphere locations. 2 hrs lec, 2 hrs lab per wk. Field trip(s) required. Prereq: 101 or Biology 101, or con instr.

GEOG 369/569. Political Geography. 3 cr. Geographical interpretation of selected political areas; the political significance of cultural and physical aspects of such areas.

GEOG 370. Transportation and Logistics. 3 cr. Survey and analyze spatial aspects of transportation and communication systems. Includes evolution of transport systems, network and flow analysis, routing and logistics analysis, and transportation planning and management. Possible field trip(s). Prereq: 110 and Math 355, or cons instr.

GEOG 371/571. Gender and Environment. 3 cr. The gendered nature of environmental degradation; feminist theories and gender-sensitive methodologies for the study of and solution to environmental problems. Prereq: 100 or Women's Studies 105 or cons instr. GDR:EL

GEOG 372. Industrial Location. 3 cr. Analyze manufacturing activities from a spatial perspective. Topics include theory and practice of industrial location, manufacturing production systems, industrial districts, and local economic development. Possible field trip(s). Prereq: 110 or cons instr.

GEOG 373/573. Urban Geography. 3 cr. Physical characteristics, spatial patterns, functions, populations, land use, and livelihood structures of cities. Possible field trip(s). Prereq: 110 or 120, or cons instr.

GEOG 374/574. Geography of Agriculture. 3 cr. Historical development of agriculture; characteristics and locational factors of current world agricultural production.

GEOG 376. Map Development and Symbolization. 3 cr. Manipulate and present data, centering on cartographic symbols, and how they apply to different mapping problems. 2 hrs lec, 3 hrs lab per wk. Prereq: 276 or cons instr.

GEOG 377. Air Photo Interpretation. 3 cr. Characteristics of aerial photographs and the use of air photo interpretation to gather data concerning regional landform analysis, resource inventories, and land use evaluation. 2 hrs lec, 2 hrs lab per wk. May not earn credit in both Geog 377 and Natural Resources 377.

GEOG 378. Retail and Service Location. 3 cr. Analyze retail and service activities from a spatial perspective. Location strategies of retail and service firms, site selection, trade area analysis, store and office assessment methods, and local economic development. Possible field trip(s). Prereq: 110 or 373, Math 355, or cons instr.

GEOG 379/579. Remote Sensing of the Environment. 3 cr. Learn principles of remote sensor technology and apply them to inventory earth resources, detect and monitor pollution, and measure other environmental phenomena. Use visual analysis and computer-assisted digital imaging processing techniques to interpret various types of remote sensor imagery. Prereq: Any geology or physical geography course, or cons instr. Possible field trip(s).

GEOG 380. Geographical Analysis. 3 cr. Introduction to geographic concepts, methods, and approaches: history and philosophy of geography, geographic literature and bibliographic materials, spatial analysis, field methods, surveys and questionnaires, problem and hypothesis formulation, synthesis and presentation of geographic materials. Prereq: 276, Math 355, and jr st, or cons instr.

GEOG 382/582. Computer-Assisted Cartography. 3 cr. Introduction to development, production, and applications of computer-assisted mapmaking. Survey computer cartography terms, concepts, and equipment, with conceptual and developmental aspects of computer-produced maps. Also digitizing, coordinate data structures, spatial data bases, computer map design, turnkey cartographic systems, and computerized map production. Prereq: 276 and any physical geog/geol course, or cons instr.

GEOG 386. Map Design and Production. 3 cr. How the graphic elements of a map affect its physical and perceived structure. Graphic communication, design principles, and map production skills. 2 hrs lec, 3 hrs lab per wk. Prereq: 276 or cons instr.

GEOG 390. Applied Statistics In Geography. 3 cr. Survey of geographic problems and quantitative problem solving methods; creation or extraction of relevant data sets from published geographic resources; application, interpretation, and presentation of appropriate spatial and nonspatial statistics. Prereq: 276; Math 355.

GEOG 391/591. Special Topics. 1-3 cr. Subtitle will designate topic of geographical interest. May repeat for credit with different subtitle. Possible field trip(s).

GEOG 393/593. Field Trip In Geography. 1-3 cr. Observe physical and cultural phenomena; required readings, field notebook and/or report. May repeat for credit with change in locale or topic. May not earn credit in Geog 393 and Geol 393 under same locale or topic. Possible field trip fee. Prereq: Intro level geog course.

GEOG 395/595. Directed Study. 1-3 cr. Students may, with cons instr, arrange for directed study of a geographical topic. Prereq: One geog course, and cons chair.

GEOG 399/599. Research. 1-3 cr. Students may arrange for a special research problem with cons instr. Results will be publicly presented. Prereq: Cons chair.

GEOG 476/676. Geographic Information Systems I. 3 cr. Develop, use and maintain a geographic-based spatial information system (GIS) for resource management. Acquire and assess spatial data. Compare raster and vector data models. Computer-based geographic data handling, analysis, interpretation, and display. Cartographic and spatial modeling. Prereq: Any geography, CNR, or environmental science course; Geog 279 recommended.

GEOG 479/679. Geographic Information Systems II. 3 cr. Intermediate and advanced geographic information systems (GIS) techniques; integrate medium and large scale digital databases, use rectified aerial and satellite geographic base data. Principles and development of complex environmental and cultural spatial modeling, GIS programming concepts and applications. Prereq: 476; 379 recommended.

GEOG 480. Internship In Geography. 1-12 cr. Supervised training program in geography in cooperation with public or private agencies. One credit is at least 60 hrs work. Credits and/or addl requirements set by instr before registration. May repeat once 12 cr max. Prereq: Jr or sr st, 9 cr 300/400 geography courses, and cons intern director.

GEOG 485. Practicum In Geography. 1-3 cr. Practical experience in geography under faculty supervision. Proposed practicum requires cons chair. May repeat for 6 cr max. Prereq: Jr st, written cons instr.

GEOG 490. Senior Research. 3 cr. Capstone experience for geography majors. Define, devise, and pursue a plan to address an approved group problem. Communicate contribution for resolution of problem. Written and oral reports; may require field trips. Experience in team field work and projects. Prereq: 380 and sr st.

GEOG 491. Senior Thesis. 3 cr. Individualized capstone experience for geography majors. Define geographical problem, devise and pursue plan to solve the problem, and communicate findings in written paper and oral presentation. Preapproval by two faculty required. For students anticipating graduate or professional study; may extend over two consecutive semesters. Prereq: 380, dept GPA 3.5, sr st.

GEOG 495. Community and Regional Analysis. 3 cr. Analyze and interpret communities and regions for planning and policy purposes. Population analysis and forecasting, economic analysis and

forecasting, environmental analysis and modeling, community and regional surveys. Prereq: 279, 373, and Math 355 or cons instr.

GEOG 496. Community Development Practices. 3 cr. Examine and analyze spatial growth and development of communities and regions; analyze and plan community development projects and related issues. Possible field trip(s). Prereq: 373 and Math 355 or cons instr.

GEOG 779. Geographic Techniques for Educators and Professionals. 1-3 cr. Teachers and/or professionals examine, develop, and apply one or more spatial technique(s). Acquisition and assessment of spatial data, computer-based geographic data handling, aggregation, translation, analysis, interpretation and mapping of geographic information. Possible field trip(s). Subtitle will designate topic.

Geography Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

108/308 Environmental Issues through Films, 2 cr, (93-95)

303/503 Geography of Indian Lands, 3 cr, (97-99)

375 Mineral Resources, 3 cr, (93-95)

Geology (College of Letters and Science)

Benjamin Ofori-Amoah, Chair of Geography/Geology Department

Room D-332, Science Building

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Web: www.uwsp.edu/geo

Definition: Geology is the scientific study of the history, structure, and composition of the earth, the natural processes that alter the earth's surface, and the resources and hazards associated with the geologic environment.

Geology Minor

Consists of 22 credits:

1. Geology 104, 106, 200, 385.
2. Either Geology 320 or 330.
3. Either Geology/Geography 352 or Geology 370.
4. Remaining credits to total 22 selected from Geology 320*, 330*, 352*, 370*, 383, 391, 393 (max 3 cr), 395, 479, 487, 495; Geography 279, 352*, 390, 393 (provided cross-listed with Geology, max 3 cr), 377 or 379 or 476, Biology 311.

*If not taken in 1-3 above. For hydrogeology certification in Wisconsin, 30 credits of geology are required, including 6 credits in groundwater topics.

Academic Standards

1. To be admitted, retained, and approved for graduation as an approved geology minor, you must have a minimum cumulative grade point average of 2.50 for all courses taken within the minor, including collateral courses and regardless of a declaration of academic bankruptcy.
 - a. You must complete Geology 104 before you declare your minor.
 - b. If you transfer and have no credits earned at UWSP in the minor, you will be a provisional minor until you complete the minimum requirements.
 - c. If you do not meet the minimum requirements, you must have written approval of the department chair to be a provisional minor.
 - d. You will be admitted as an approved minor once you meet the minimum requirements.
2. If you do not maintain a 2.50 GPA, you will be placed on geology probation and will have two semesters to restore your GPA. If you fail to do so, you will be dropped from the minor. The department will attempt to notify and consult with students who are at or below

100 Geology

a 2.50 GPA. However, it is your responsibility to know your own GPA status.

3. You may repeat a course in the minor only if you follow the policy on repeating courses found in the **More Academic Information** section of this catalog.
4. Geology, geography, and biology courses taken at the 300 or 400 level on a pass/fail basis do NOT count toward the minor.

Test-Out and Credit-by-Exam Policy

See the statement above under **Geography**.

Courses in Geology

GEOL 100. Geology and Science. 3 cr. Introduction to scientific inquiry as it applies to understanding human interactions with the physical environment. 2 hrs lec, 2 hrs lab per wk. Group work required; Possible field trip(s). GDR:NS

GEOL 104. Physical Geology. 4 cr. Introduction to study of minerals and rocks and processes that act upon and within the earth. 3 hrs lec, 2 hrs lab per wk. Possible field trip(s). GDR:NS

GEOL 106. Earth History. 1 cr. Development of the earth through time. Prereq: 104 or con reg.

GEOL 198. Reading in the Discipline. 1 cr; pass/fail. Does not apply to geology minor. Prereq: Con reg in another selected geology course.

GEOL 200. Mineralogy and Petrology. 4 cr. Origin and classification of common rocks and minerals with emphasis on hand sample identification. Field trip(s) required. Prereq: 104.

GEOL 320. Structural Geology. 3 cr. Analysis of rock deformation features such as folds, faults and shear zones, their tectonic significance. 2 hrs lec, 2 hrs lab per wk. Field trip(s) required. Prereq: 104.

GEOL 330/530. Environmental Geology. 3 cr. Apply geological principles to understand and solve problems associated with human interaction with the physical environment, including soil and rock mechanics, slope stability, land subsidence, earthquakes, coastal erosion, and resource extraction. 2 hrs lec and 2 hrs lab per wk. Field trip(s) required. Prereq: 104.

GEOL 352/552. Geomorphology. 3 cr. Characteristics, origin, and development of landforms. 2 hrs lec, 2 hrs lab per wk. Possible field trip(s). May not earn credit in both Geol 352 and Geog 352. Prereq: 104, or Geog 101, or cons instr.

GEOL 370/570. Glacial Geology. 3 cr. Origin and development of glacial features and related phenomena over the last three million years. Possible field trip(s). Prereq: 104 or Geog 101.

GEOL 383/583. Hydrogeology. 3 cr. Occurrence and movement of groundwater in the geologic environment; response of aquifers to pumping wells; groundwater resource quality, exploration, and management. 2 hrs lec, 2 hrs lab per wk. May not earn credit in both Geology/Water 383. Prereq: 104, Water 180, Math 120, or cons instr.

GEOL 385/585. Geologic Site Investigations. 2 cr. Design a geologic investigation; use field techniques for data collection, analysis and interpretation of geologic data; submit a site investigation report. Prereq: 104.

GEOL 391. Special Topics. 1-3 cr. Subtitle will designate geologic topic. May repeat for credit with different subtitle. Prereq: 104/equiv.

GEOL 393/593. Field Trip in Geology. 1-3 cr. Observe geological phenomena; readings, field notebook and/or report. May repeat for credit with change in locale or topic. May not earn credit in Geology 393 and Geography 393 under same locale or topic. Possible field trip(s). Prereq: Intro geology course.

GEOL 395/595. Directed Study. 1-3 cr. Students may arrange for directed study of a geological topic with cons instr. Prereq: Cons instr. and a 300 level geology course.

GEOL 475/675. Groundwater Management. 1 cr. Principles and practices of protecting groundwater quality and supply and practices to deal with groundwater problems once they have occurred. Existing laws, regulations, and management plans; social, economic, and scientific criteria used in reaching management decisions. May not earn credit in both Geol 475 and Water 475. Prereq: 383.

GEOL 479/679. Contaminant Hydrogeology. 3 cr. Physical and chemical processes affecting behavior and transportation of groundwater contaminants; apply contaminant transportation models; monitor and remediate groundwater contamination. May not earn

credit in both Water 479 and Geol 479. Prereq: Water/Geol 383; Math 120; Chemistry 106 or 116; and written cons instr.

GEOL 480. Internship in Geology. 1-12 cr. Supervised training program in geology in cooperation with public or private agencies. One cr equals at least 60 hrs work. Credits and/or addl requirements set by instr before registration. May repeat once for 12 cr max. Prereq: Jr or sr st, 9 credits 300/400 geology courses, and cons intern director.

GEOL 485. Practicum in Geology. 1-3 cr. Practical experience in geology under faculty supervision. Proposed practicum requires cons chair. May repeat for 6 cr max. Prereq: Jr st and written cons instr.

GEOL 487/687. Groundwater Geochemistry. 3 cr. Factors and processes controlling the chemistry of subsurface waters including mineral solubility, complexation, redox reactions, ion exchange, and absorption; hydrochemical behavior of contaminants. May not earn credit in both Geology 487 and Water 487. Prereq: 104; Chemistry 106 or 116; Water 180; or cons instr.

GEOL 495/695. Application of Computer Modeling to Hydrogeology. 3 cr. Introduction to computer modeling; emphasis on modeling theory, groundwater flow and particle tracking models. May not earn credit in both Water 495/Geol 495. Prereq: Water/Geol 383, Math 120, and written cons instr.

GEOL 730. Environmental Geology for Educators. 1 cr. Examine effects that earth materials and geologic processes have on humans and society, emphasizing natural geologic hazards. Exposure to resources for teaching environmental geology including the Internet. Prereq: Bachelor's degree.

Geology Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

105 Historical Geology, 4 cr, (97-99)
591 Special Topics, 1-3 cr, (91-93)

GERMAN

See **Foreign Languages**.

GERONTOLOGY

See **Sociology**.

G.I.S.

See **Geography**.

GRADUATE STUDY

See the **Graduate** section later in this catalog.

GRAPHIC DESIGN

See **Art and Design**.

GROUNDWATER

See **Natural Resources-Water Resources**.

Health, Exercise Science, & Athletics (HESA)

(College of Professional Studies)

Fred Hebert, Chair of the School of Health, Exercise Science, and Athletics (HESA)

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Definitions: Physical education is the process by which individuals obtain optimal physical, mental, social and fitness skills through the medium of human movement.

Athletic training is a profession specializing in athletic health care, cooperating with physicians and other allied health personnel.

Note: You may NOT take courses pass/fail that lead to completion of a professional HESA program (physical education, athletic training, coaching, health education, physical education for the exceptional individual, adventure education).

Abbreviations:

ADVE = Adventure Education

AT = Athletic Training

HEC = Health Enhancement Center (Phy Ed Building)

HESA = Health, Exercise Science, and Athletics

HLED = Health Education

HP/W = Health Promotion/Wellness

P ED = Physical Education

PEX = Physical Education for the Exceptional Individual

WLNS = Wellness (formerly general physical education)

Physical Education Major for Teacher Certification (K-12)

Enrollment/Retention Standards: There is an enrollment cap for physical education majors that is determined by the School of Education. If you wish to transfer into physical education from a different UWSP major, you must have a 2.75 cumulative grade point average. New students must follow these requirements:

- Freshmen:** Complete a minimum of 30 credits with a 2.50 GPA. These credits include P ED 105; Math 100, English 101 and 102, Biology 160, Psychology 110, and 5 credits of chemistry or physics (23 credits). You must complete these courses before you can enroll in P ED 260, 300, 301.
- P ED 105 is a prerequisite for P ED 300 and 301 for physical education majors.
- Sophomores:** Complete 60 credits with a 2.75 GPA and apply to the School of Education by the end of your sophomore year. P ED 300 and 301 are prerequisites for P ED 260. You may take P ED 301 and 260 concurrently if P ED 300 is complete. Admitted as a physical education major.
- Juniors:** Complete 90 credits with an overall GPA of 2.75 including all natural science courses. Prerequisites for P ED 331 are (1) 75 credits with 2.75

GPA; (2) P ED 260, 300, 301; (3) all natural science requirements; (4) director consent.

- If you fail to meet the above requirements you will not be allowed to register for professional physical education courses. You may appeal to the director of physical education.
- There are enrollment caps for admission to the Professional Education Program. Please consult your physical education adviser for specific requirements.

Physical Education Major: Consists of the following:

- Required:** P ED 105, 150, 220, 260, 271, 280, 300, 301, 310, 315, 331, 380, 391, 428; HP/W 312; PEX 400, 401; WLNS 205.
- Collateral requirements** that may also apply toward GDR requirements:
 - Laboratory science: Biology 160, 285; Chemistry 101 or Physics 101.
 - GDR requirements for DPI certification: History 211 and 212; Psych 110; Poli Sci 201; one fine arts course (HU1); one literature course (HU2).
 - First Aid/CPR: WLNS 123.
 - Education 205, 351, 381, 386, P ED 398, 400.
 - GPA of 2.75 in physical education courses.
- Admission requirements:** Incoming freshmen and transfer students are "premajors." To become an accepted major follow these procedures:
 - Before you apply, complete with a grade of C- or better or be enrolled in the following: P ED 105, 150, 220, 271; Biology 160; Chemistry 101 or Physics 101. Note: P ED 105 and 220 must be taken at UW-Stevens Point.
 - Have a minimum 2.75 GPA in all credits attempted.
 - Apply to the School of Education for acceptance into the Professional Education Program when courses in "a" above are complete.
 - The number of seats available in the School of Education will determine the number of majors accepted.
 - You must be accepted into the School of Education before you can enroll in P ED 260, 280, 300, 301, 310, 331, 380, 391, 428; PEX 400, 401; HP/W 312.
- Refer to the **Education** section earlier in this catalog for information about admission to the Professional Education Program and teacher certification. **NOTE:** To graduate with a comprehensive physical education major, you must successfully complete all teacher certification requirements including student teaching in physical education.
- To repeat a course, follow UWSP policy. The last of the grades for repeated courses will be calculated into your GPA. No credit received for "special work" courses (199, 299, 399) may be calculated in the cumulative GPA required for admittance into the program.

Athletic Training Major

Kathleen O'Connell, Director

Room 129, Health Enhancement Center

Phone: 715-346-2409

E-mail: Kathleen.O'Connell@uwsp.edu

Web: www.uwsp.edu/hesa/athtraining/index.htm

Faculty/Staff: H Herrmann, C Huot, K O'Connell, R Thorne
Medical Directors: James Banovetz Jr, MD, PhD; Daniel Kraeger, DO, ATC

Athletic Training Major

- Academic Program:** Complete the following.
 - Requirements for Bachelor of Science or Bachelor of Arts degree.
 - AT 181, 182, 200, 201, 251, 300, 301, 302, 362, 370, 380, 381, 382, 400, 401, 420, 425, 430, 435; Coaching 372; Food and Nutrition 253; Clinical Lab Science 295; P ED 220, 271, 310, 362; HP/W 312.
 - Collateral requirements: Biology 160, 285; Chemistry 101; Human Development 265; HP/W 102; Math 355; Psychology 110; Physics 101; WLNS 123.
- Clinical Practicum:** Complete 7 credits in the following rotations.
 - Athletic training facility.
 - Clinical/high school/industrial.
 - Lower extremity intensive.
 - Upper extremity intensive.
 - Equipment intensive.
 - General medical.
 - Strength and conditioning.
- Field Experience:** Complete a minimum of 1,500 field experience hours under the direct supervision of a NATABOC certified athletic trainer. These hours must be attained after acceptance into the program over a minimum of two years and not more than five years. If accreditation requirements change, the number of hours may change. Check with the director for latest requirements.

Affiliation Agreements: UW-Stevens Point has affiliation agreements with the following facilities to provide clinical practicum education for students. The clinical supervisors and instructors of the affiliated sites have university associate appointments.

Rice Medical Center, Stevens Point.

St. Michael's Hospital Physical Therapy, Stevens Point.

St. Michael's Hospital Industrial Rehabilitation, Stevens Point.

Stevens Point Area Senior High School, Stevens Point.

Pacelli High School, Stevens Point

Amherst High School, Amherst.

Iola High School, Iola.

Rosholt High School, Rosholt.

Academic Standards

Admission requirements: Incoming freshmen and transfer students who declare athletic training are "premajors."

- Before you apply to the program, complete or be in progress with good standing in the following: AT 181, 182, Biology 160, HP/W 102, Physics 101, Psychology 110, WLNS 123 – all with a grade of C or better.
- If your application is denied, you may reapply once, the following spring. You may continue to work on general degree requirements courses and courses in your minor area of study while you wait to reapply.
- Have a minimum 2.75 grade point average in all credits attempted.
- Request (in writing) and complete the Athletic Training Education Program application.
- Submit four letters of recommendation.
- Submit signed statement of acceptance for the athletic training educational program's technical standards.
- Complete the formal interview.
- Provide medical statement (including immunizations) indicating you have been examined within the last year and are free of tuberculosis.

- Be vaccinated for Hepatitis B or provide signed declination statement.
- Supply verification of student personal liability insurance prior to affiliated rotations.
- Apply before March 1. Admission decisions are provided in writing by April 1. You may apply twice.
- Complete athletic training (AT) courses at UW-Stevens Point. Transfer courses in athletic training from other accredited UW System programs will be accepted. If you are a transfer student or decide to major in AT after your freshman year, you may apply to the program after all pre-application requirements (listed in 1 above) are complete.
- Meeting or exceeding the requirements for eligibility to apply to the program does not guarantee placement. Acceptance is based upon academic credentials, interviews, and available clinical sites. Maximum number of students in the program is 35. Check with the director for latest requirements.

Retention Standards

- Maintain 3.0 GPA in major and collateral coursework.
- Maintain a 2.75 cumulative GPA in all credits attempted.
- Maintain 3.0 (5.0) clinical evaluation scores. (Student athletic trainer eval form is based on 5 point scale.)
- If you fail to meet all retention criteria listed above, you will be placed on probation in the AT major. If you do not attain all of the criteria for active status during the probation semester, you may not continue in the major.
- To repeat a course, follow UWSP policy. The last grade for a repeated course will be calculated into your GPA. No credit received for "special work" courses (199, 299, 399) may be calculated into the cumulative GPA required for admission to the program.

Notes for Athletic Training Majors

- Refer to the *Athletic Training Educational Handbook* for program technical standards that relate to the Americans with Disabilities Act of 1990.
- All requirements for the major must be complete, or in the process of being completed, before the program director will endorse your application for the National Athletic Trainers' Association Board of Certification examination.
- If you are denied acceptance into the program, you may contact the chair of HESA for appeal procedures. The HESA Appeals Committee will review and act on your appeal letter and letters of recommendation.

Adventure Education Minor

Consists of 22 credits.

- Adventure Ed 150, 225, 250, 275, 325, 350, 450.
- Wellness 146, 215.

Coaching Minor

Consists of 21 credits:

- Coaching 200, 361, 372; P ED 362, 391, AT 351.
- At least three courses from Coaching 282-294.
- Elementary education majors may count Psychology 260 or Human Development 265 to reach a maximum of 22 credits.

Health Education Minor

Consists of at least 21 credits:

- Biology 285; HLED 104, 140, 340, 390, 427; Food and Nutrition 151 or 253.
- If you are preparing to teach, you must take HLED 398 at all levels in which you are seeking certification.

Adapted Physical Education 860 Add-On Certification

(Physical Education for Exceptional Individual)

This sequence must be completed with the comprehensive physical education (K-12) teaching major in order to receive the 860 add-on certification. Take PEX 315, 335, 360, 400, 401, and Education 351.

Test-Out and Credit-by-Exam

Test out credit is available for all courses meeting the general degree requirement in Wellness (WLNS). You may attempt test-out for a maximum of 3 credits. You may earn a maximum of 2 credits in aerobic/activity or health enhancement. The test-out option is available to all students.

Aerobic/Activity Test-Out: Sign up and get information for aerobic/activity test-out at the School of HESA Main Office (122 Health Enhancement Center). Take the written exam that determines if you know how to design and implement your own physical fitness program. If you pass, take the multicomponent physical fitness assessment test that includes aerobic capacity. To pass, your scores must meet or exceed the norm of UWSP students in four of the six areas. If you pass both exams, you will receive two credits of aerobic/activity.

Health Enhancement Test-Out: Sign up and get information for health enhancement test-out at the School of HESA Main Office (122 Health Enhancement Center). Take the written exam covering eight major health enhancement topic areas. You will receive one credit of health enhancement if you pass four categories at a 70 percent level and two credits if you pass seven categories.

Courses in Adventure Education

ADVE 150. Introduction to Adventure Education. 2 cr. Awareness of principles, practices and philosophy associated with adventure programming. Lead and facilitate groups of different ages and dynamics. Introduces components of minor.

ADVE 225. Wilderness First Responder. 3 cr. Implement and practice standards set by the Wilderness Medical Associates to obtain certification as a wilderness first responder. Obtain WFR certification.

ADVE 250. General Camping/Backpacking. 3 cr. Two- or three-season camping and backpacking techniques including equipment, survival techniques, orienteering, trip planning. Use fundamental facilitation skills in an outdoor trip environment. Obtain "Leave No Trace" certification.

ADVE 275. Water Skills. 3 cr. Principles of basic canoeing and sea kayaking. Recovery and rescue skills. Whitewater canoeing and kayaking. Trip leading and facilitation skills. Prereq: WLNS 146.

ADVE 325. Management of Top-Rope Climbing. 3 cr. Techniques for management of indoor and outdoor top-rope climbing site. Belaying techniques, site selection, "leave no trace" site use, rescue and emergency techniques. Apply American Mountain Guides Association standards. Site management and facilitation skills. Prereq: WLNS 215.

ADVE 350. Challenge Course Management. 3 cr. Low and high rope facilitation. Philosophical and ethical issues dealing with risk-taking as a learning tool. Safety issues, belaying, programming, sequencing, and course set-up/tear-down. Facilitation opportunities.

ADVE 397/597. Workshop in Adventure Education. Variable cr. Participate in special experiences related to your minor program. Subtitle will designate area. May repeat with different subtitle for 6 cr max.

ADVE 450. Adventure Education Practicum. 3 cr. Adventure leadership skills demonstrating naturalistic intelligence while planning and conducting climbing, camping/backpacking, and water experiences for various groups. Choose work with K-12 students, CWES groups, peer groups, Lions Camp groups. Plan and facilitate groups from each area. Develop and use mobile adventure learning courses. Prereq: ADVE 150, 225, 250, 275, 325, 350.

Courses in Athletic Training

AT 181. Introduction to Athletic Training. 2 cr. Overview of athletic training profession, history and growth. Concept of the sports medicine "team." Athletic training room policies, procedures, medical record keeping and commonly used supplies.

AT 182. Athletic Training and Clinical Observation. 1 cr; pass/fail. Introduction to athletic training facility and environment through observation experiences. Prereq: Con reg in 181 and intent to major in AT.

AT 200. Emergency Response to Injury and Illness. 3 cr. Awareness of common safety principles, predisposing factors and common causes of injury and illness. Apply advanced first aid techniques and measures. Prereq: WLNS 123; admis to prog.

AT 201. Practicum I. 1 cr; pass/fail. Practical application of proficiencies in AT 251: anthropometrics measurements, environmental conditions, protective devices, emergency action protocols, identification of signs/symptoms of acute injury and techniques for prevention of injury/illness. Prereq: Con reg in 251.

AT 251. Prevention and Care of Injury and Illness. 2 cr. Introduction to appropriate care and treatment for acute injuries and illness; preventive principles including conditioning, fitness, nutrition, bracing and equipment fitting, preparticipation physical examinations and environmental conditions. Prereq: Admis to prog and current CPR and First Aid certification.

AT 300. Practicum II. 1 cr; pass/fail. Practical application of proficiencies in AT 370 for the lower extremity: orthopedic evaluation, fabrication of protective devices, application of immobilization equipment and use of ambulation aids. Prereq: 200, 201, 251; con reg in 370; admis to prog.

AT 301. Practicum IV. 1 cr; pass/fail. Practical application of proficiencies in AT 380. Orthopedic evaluation of upper extremity including abdomen/thorax/head and face; fabrication of protective devices. Prereq: 300, 370; con reg in 380; admis to prog.

AT 302. Practicum V. 1 cr; pass/fail. Practical application of proficiencies in AT 381 including functional therapeutic progressions for upper and lower extremities, neuromuscular control and proprioception, spine stabilizations and abdominal/core training, joint mobilizations, gait analysis and fabrication and use of orthotics. Prereq: Physics 101; P ED 362, AT 362; con reg in 381; admis to prog.

AT 351. Acute Care and Risk Management of Athletic Injuries. 2 cr. Cause and treatment of acute athletic injuries, as well as policy and procedure development strategies to ensure appropriate health care for the athlete. Prereq: P ED 271; WLNS 123.

AT 362. Practicum III. 1 cr; pass/fail. Practical application of proficiencies in P ED 362 including strength and conditioning, cardiovascular and endurance, power, and anthropometric principles associated with active populations. Prereq: Con reg in P ED 362; admis to prog.

AT 370. Orthopedic Evaluation of Lower Extremity. 2 cr. Assessment methods used in evaluation of lower extremity musculoskeletal injury and illness. Prereq: P ED 271; admis to prog.

AT 380. Orthopedic Evaluation of Upper Extremity. 2 cr. Assessment methods used in evaluating upper extremity musculoskeletal injury and illness. Prereq: P ED 271; AT 370; admis to prog.

AT 381. Therapeutic Exercise. 3 cr. Awareness, understanding, and application of principles and skills for rehabilitation of injuries in physically active populations. Prereq: Physics 101; P ED 362; AT 362; admis to prog.

AT 382. Therapeutic Modalities. 3 cr. Principles of electromagnetic and acoustical treatment methods, indications and contraindications, and procedures for applying these treatments to athletic injuries. Prereq: 251, admis to prog.

AT 397/597. Workshop in Athletic Training. Variable credit. Participate in special experiences related to your major program. Subtitle will designate area. May repeat with different subtitle for 6 cr max.

AT 399. Special Work. 1-3 cr. Upperclass athletic training majors may arrange for independent study with cons instr and coordinator. Credit based on scope of project. Before beginning, statement must be on file with coordinator.

AT 400. Practicum VI. 1 cr; pass/fail. Practical application of pharmacological and psychosocial intervention proficiencies in AT 430 including use of PDR, urinalysis, emergency action plans for drug overdose and poison control, epinephrine injections, bronchodilators.

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Policy development for substance abuse and disordered eating. Prereq: CHEM 101; AT 302; con reg in 430; admis to prog.

AT 401. Practicum VII. 1 cr; pass/fail. Practical application of proficiencies in AT 425 including recognition of signs and symptoms of general medical conditions, use of stethoscope in breath/bowel and heart rhythms, otoscope for ear pathology, and peak-flow meter for respiratory capacity; procedures for drug testing. Prereq: 400, con reg in 425; admis to prog.

AT 420. Administration of Athletic Training Programs. 3 cr. Policies and procedures for an athletic training program. Personal management, record keeping, inventory management, budgeting, purchasing, and facility design. Prereq: 301, admis to prog.

AT 425. Medical Aspects of Injury and Illness. 3 cr. Exposure to professionals from variety of medical and allied health areas. Discuss general medical conditions and treatment strategies for each area. Prereq: CHEM 101; BIO 285; HP/W 312; admis to prog.

AT 430. Therapeutic Interventions of Injury and Illness. 3 cr. Pathology of injury and illness including recognition of signs and symptoms produced by systemic disease; theory and techniques for treatment of various conditions in active populations including surgical, pharmacological and psychological. Prereq: CHEM 101, BIO 285, HP/W 312; admis to prog.

AT 435. Research Methods in Athletic Training. 3 cr. Apply scientific method to athletic training research problems; explore research design principles; design and write research proposals. Prereq: MATH 355; admis to prog.

Courses in Coaching

COAC 101. Tools for Academic Success. 1 cr. Transitional issues from high school to college, intro to university services, time management/study skills, information management, goal setting, personal wellness, tolerance and sportsmanship. Tools for student-athletes to maximize abilities in class and competition. Prereq: Cons instr.

COAC 200. Scientific Concepts of Coaching. 3 cr. Scientific concepts of anatomy, biomechanics, and physiology applied to coaching athletes. Analysis of performance based on anatomical and mechanical principles.

COAC 282-294. Coaching of Specific Sports. Each 2 cr. Theory and techniques, training schedules, strategy, coaching methods, and conditioning. Prereq: So st.

282. Basketball; 283. Wrestling; 284. Football; 285. Baseball; 286. Track and Field; 287. Soccer; 288. Ice Hockey; 289. Swimming; 290. Volleyball; 291. Tennis; 292. Gymnastics; 293. Golf; 294. Sports Modules.

COAC 361. Practicum in Coaching. 2 cr. Practical experiences in coaching sports at various educational levels. 1 hr lec, 2 hrs lab per wk. Prereq: 200 and at least 12 cr in the minor.

COAC 372. Motivational Aspects of the Athlete. 3 cr. Study social and behavioral factors of coaching.

COAC 397/597. Workshop in Coaching. Variable credit. Participate in special experiences related to coaching minor. Subtitle will designate area. May repeat for 6 cr max.

COAC 399. Special Work. Upperclass coaching minors may arrange for independent study with cons instr and coordinator. Credit based on the scope of project. Before beginning project, statement must be filed with chair of HESA.

COAC 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization; regular conferences with staff supervisor with cons chair.

COAC 797. Workshop in Coaching. Variable credit. Participate in special graduate level experiences related to your major program. Subtitle will designate area. May repeat for 6 cr max.

Coaching Latent Courses: Not offered recently. See (01-03) catalog. 285 Coach Baseball, 2 cr; 289 Coach Swimming, 2 cr; 291 Coach Tennis, 2 cr; 292 Coach Gymnastics, 2 cr; 293 Coach Golf, 2 cr; 790 Seminar in Current Issues, 1-3 cr.

Courses in Health Education

HLED 104. Introduction to Current Health Issues. 4 cr. Introduction to health/wellness programs in schools and community; development of the health education professional. Current issues of mental-emotional health, aging, death and dying, communicable and chronic diseases, fitness, consumer health, personal health, safety/accident prevention, environmental issues, and violence.

HLED 140. Responsible Sexuality. 3 cr. Sexual development in America, reproduction and contraception, and related issues; develop skills for presenting this knowledge to children in classroom and family settings including methods needed to deliver K-12 sexuality curriculum. GDR:WLNS/HE

HLED 280. Health Education in the Elementary School. 3 cr. Principles, techniques, and materials applied to teaching health in the elementary school; also personal health behavior. Prereq: So st. GDR:WLNS/HE

HLED 340. Curriculum and Resources in Health Education. 3 cr. Curriculum design, content, and resources, with practical experience and field problems in teaching and implementing comprehensive school health programs to meet Wisconsin standards in health education. Prereq: 104.

HLED 390/590. Wellness and Drugs. 3 cr. Uses of drugs in our culture; decision-making process leading to minimal, intentional, deliberate use of drugs including caffeine, nicotine, alcohol, over-the-counter drugs, prescription drugs, and illegal drugs; effects, consequences, and alternatives.

HLED 397/597. Workshop in Health Education. Variable credit. Participate in special experiences related to health ed minor. Subtitle will designate area. May repeat for 6 cr max.

HLED 398. Student Teaching in Health Education. 4-16 cr; pass/fail. Observation and teaching of health education under the guidance of cooperating teachers and university faculty.

HLED 399. Special Work. Upperclass health ed minors may arrange for independent study with cons instr and coord. Credit based on scope of project. Before beginning project, statement must be filed with chair of HESA.

HLED 427. Techniques in Elementary and Middle School Health Education. 2 cr. Aims, methods, materials, strategies, techniques, organization and testing in K-9 health education. Prereq: 340, admission to School of Education.

HLED 498. Intern Teaching. Variable cr; pass/fail. Structured field experiences in approved school programs. Interns are certified by the DPI and employed under contract with schools to design, deliver, and assess instructional programs in grades n-k-12. Prereq: Complete all methods courses and 75% of content courses in approp major. Con reg in approp section of Educ 400 may be required.

HLED 700. Current Health Issues and Trends in Health Education. 3 cr. (For certified teachers who do NOT have undergrad health ed degree and seek K-12 health certification). Background in health content areas of nutrition, physical activity, personal health, safety and injury prevention, stress, violence/abuse, substance use and abuse, disease prevention, environmental health, aging, death and dying, consumer and community health, mental and emotional health.

HLED 701. Curriculum and Resources in Teaching Comprehensive School Health Education. 3 cr. (For certified teachers who do NOT have undergrad health ed degree and seek K-12 health certification). Hands-on knowledge and skills to develop effective curriculum and learning strategies for health education. Apply Wisconsin Standards of Health Education with psychosocial skills to assist students in development of life skills.

HLED 703. Teaching Methods in Health Education. 3 cr. (For certified teachers who do NOT have undergrad health ed degree and seek K-12 health certification). Analyze effective approaches to teaching health ed to children, primarily using prevention theory. Apply teaching methods, strategies, techniques and assessments in health ed by constructing a series of hands-on learning opportunities.

HLED 705. Sexuality Education: Content and Programming for K-12 Schools. 3 cr. (For certified teachers who do NOT have undergrad health ed degree and seek K-12 health certification). Review current information on health and human sexuality including biological, psychosocial and educational aspects with instructional activities related to interpersonal communication, decision-making and clarification of values. Review Wisconsin law and curriculum expectations working through abstinence-based and abstinence-only curricular approaches, while gaining appreciation of controversial issues surrounding K-12 sexuality education.

HLED 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization; regular conferences with staff supervisor, through arrangement with chair of HESA.

Health Education Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

- 145 Introduction to Health Education/Promotion, 3 cr, (93-95)
 790 Seminar in Current Issues, 1-3 cr, (91-93)
 797 Workshop in Health Ed, variable cr, (01-03)

Courses in Physical Education

P ED 105. Introduction to Physical Education and Wellness. 2 cr. Philosophy, aims and objectives of physical education including intramural, recreational, and interscholastic activities; introduction to wellness philosophy and to leadership qualities necessary to major in physical education.

P ED 150. Foundations of Teaching K-12 Physical Fitness. 2 cr. Prepare preservice teachers to teach physical fitness in educational settings. Instruction and assessment of fitness activities appropriate for elementary, middle and high school students. Concepts of health-related fitness. Prereq: Phy ed major.

P ED 199. Independent Study. 1-3 cr. Students may arrange for work not available through regular courses. Must be pre-arranged with statement filed with chair of HESA. Wellness substitutions may be approved. Prereq: Cons instr.

P ED 220. Lifespan Motor Development. 3 cr. Motor behavior changes over the lifespan including underlying processes and factors that affect them. Relationships among growth, maturation, motor performance and the person's context. How interaction among motor, cognitive and affective domains impact motor development. Developmental considerations for planning and directing movement experiences across the lifespan. Prereq: 105, phy ed major.

P ED 231. Physical Education for Elementary Grades K-3. 3 cr. Conceptual approach to gross motor development, perception, and motor patterns of children through third grade. Lectures, collateral reading, research, and field trips. Required for all in primary education curriculum. 3 hrs per wk plus field work. Prereq: So st. GDR:WL/AA

P ED 252. Standard First Aid, Personal Safety, and Cardiopulmonary Resuscitation. 2 cr. American Red Cross first aid and CPR training, with certificate issued on satisfactory completion of course.

P ED 260. Practicum Experience in Physical Education. 2 cr. Clinical field experience with a secondary and elementary placement; one hr observation at each school per wk. Prereq: So st and phy ed major.

P ED 271. Human Anatomy. 3 cr. The skeletal, muscular, circulatory, digestive, respiratory, and nervous systems of the human body. Prereq: Cons instr.

P ED 280. Curriculum Design in K-12 Physical Education. 3 cr. Study school physical education program content. Classification, scope and sequences of educational content for selecting and organizing K-12 learning experiences. Curricular themes and models compared and aligned with national and state content standards. Prereq: 105, 150 or con reg in 300 or 260.

P ED 300. Professional Teaching Skills I (formerly 200). 3 cr. Skills and methods in teaching tumbling and rhythmic gymnastics, field sports, racquet sports, tennis, adventure education, and team sports. Prereq: Jr major and admis to School of Educ.

P ED 301. Professional Teaching Skills II (formerly 201). 3 cr. Skills and methods in teaching winter recreation, aerobics, strength training, swimming, track and field, and outdoor education. Prereq: Jr major and admis to School of Educ.

P ED 310. Kinesiology. 3 cr. Study body movement and principles that affect movement. Prereq: 271, or cons instr.

P ED 315. Dance Methods. 2 cr. Methods, materials, and fundamental principles for teaching dance including folk, square, and ballroom in K-12 physical education programs. Prereq: Jr st or cons instr.

P ED 331. K-6 Physical Education Curriculum. 4 cr. Physical education principles, practice and activities for K-6. In-class practicum experience. Prereq: 200, 201, 260, major and jr st.

P ED 353. Advanced First Aid Instructors. 1 cr. Preparation for teaching advanced first aid prescribed by American Red Cross; certificate granted on satisfactory completion of course. Prereq: Valid advanced first aid certificate.

P ED 362. Strength Training/Facility Management Practicum. 2 cr. Theory and practical experience in strength training, exercise programming, weight room management, budget planning and strength coaching for physical education/health promotion majors and coaching minors. Prereq: 126 or WLNS 183 and cons instr.

P ED 380. Measurement, Evaluation, and Assessment in Physical Education. 3 cr. Construct and analyze assessment instruments in the cognitive, health-related fitness, and psychomotor domains. Evaluate K-12 student performance and behaviors for grading and assessment purposes. Prereq: Jr st.

P ED 391. Organization and Administration of Physical Education and Athletics. 3 cr. Problems of the administration of gymnasias, playgrounds, pools, locker rooms, interscholastic athletics and intramurals; management of the business affairs of each type of program. Prereq: Sr st, cons instr.

P ED 397/597. Workshop in Physical Education. Variable credit. Participate in special experiences related to phy ed major. Subtitle will designate area. May repeat for 6 cr max.

P ED 398. Student Teaching in Physical Education. 1-16 cr; pass/fail. Observation and teaching of physical education under the guidance of cooperating teachers and university faculty. Sections offered at elementary and secondary levels.

P ED 399. Special Work. Upperclass physical education and wellness majors may arrange for independent study with cons instr and coordinator. Credit based on scope of project. Before beginning project, statement must be filed with chair of HESA.

P ED 400. Seminar in Teaching Physical Education. 1 cr. Discuss student teaching issues and beginning teacher concerns. Students must return to campus for seminar meetings. Includes use of P134 portfolio. Prereq: Con reg in student teaching.

P ED 428. Techniques and Curriculum in Secondary Education: Physical Education. 3 cr. Methods, materials, and fundamental principles in curriculum development; take no earlier than one semester before student teaching. Prereq: Admission to School of Education.

P ED 498. Intern Teaching. Variable cr; pass/fail. Structured field experiences in approved school programs. Interns are certified by the DPI and employed under contract with schools to design, deliver, and assess instructional programs in grades K-12. Prereq: Complete all methods courses and 75% of content courses in approp major. Con reg in approp section of Educ 400 may be required.

P ED 790. Seminar in Current Issues. 1-3 cr. Subtitle designates focus.

P ED 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization; regular conferences with staff supervisor, through arrangement with chair of HESA.

P ED 797. Workshop in Physical Education. Variable credit. Participate in special graduate level experiences related to your major program. Subtitle will designate area. May repeat for 6 cr max.

Physical Education Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

- 232 Phy Ed for Elementary Grades 4-6, 3 cr, (01-03)
 253 Standard First Aid and CPR Instructors, 2 cr, (01-03)
 254 Advanced First Aid and Emergency Care, 2 cr, (01-03)
 395 Seminar in Phy Ed, Health, and Recreation, 1 cr, (01-03)
 447 Emergency Water Safety/ Safety Instructor, 1 cr, (97-99)

Courses in Physical Education for the Exceptional Individual (PEX)

PEX 315. Activities for the Exceptional Individual. 3 cr. Activity selection, curricular development, and program implementation in teaching and other types of recreational/fitness programs.

PEX 319. Exercise, Recreation, and Health Enhancement for the Elderly. 3 cr. Assess and prescribe exercise, recreation and health enhancement programming for the elderly. Prereq: Cons instr.

PEX 335. Assessment and Prescription in the Motor Domain for Exceptional Individuals. 2 cr. Prereq: 400, 401.

PEX 360. Advanced Practicum in Physical Education for Individuals with Special Needs. 1 cr. Practical experience working with persons with special needs in education/community-based programs. Subtitle will designate area. May repeat for 3 cr max. Prereq: 400 and 401.

PEX 397/597. Workshop in Physical Education for Exceptional Individuals. 1-6 cr. Participate in special experiences related to PEX minor. Subtitle will designate area.

PEX 398. Student Teaching in Adapted Physical Education. 4-16 cr; pass/fail. Observation and teaching of adapted physical education under the guidance of cooperating teachers and university faculty.

106 Health, Exercise Science & Athletics

PEX 400. Physical Education for Individuals with Disabilities. 2 cr.
Prereq: Con reg in 401; and P ED 200, 201, 331; admission to School of Education.

PEX 401. Physical Education for Individual with Disabilities. 1 cr.
Hands-on intervention with children with disabilities in aquatics and motor development. Prereq: Con reg in 400 and P ED 200, 201, 331; admission to School of Education.

PEX 498. Intern Teaching. Variable cr; pass/fail. Structured field experiences in approved school programs. Interns are certified by the DPI and are employed under contract with schools to design, deliver, and assess instructional programs in grades n-k-12. Prereq: Complete all methods courses and 75% of content courses in approp major. Con reg in approp section of Educ 400 may be required.

Courses in Wellness

WLNS 100 to 299. Wellness. 1 cr. each. Developmental, individual, recreational, and educational activities that lead to health maintenance, cardiovascular efficiency, fitness and self-care skills. See listing below. Courses meet general degree requirements: AA (aerobic activity) or HE (health enhancement).

Notes:

1. In order to earn a bachelor's degree, you must take 3 credits of wellness (GDR:WL), 1 or 2 credits in aerobics/activities (AA) courses and 1 or 2 credits in health enhancement (HE) courses.
 - a. Most of the wellness courses apply to the aerobics/activities category.
 - b. Health enhancement courses include: WLNS 123, 124, 141-151, 205-210, 299; HLED 140, 280; Food and Nutrition 151; HP/W 102, 103, 106, 107, 110, 142, 143, 148, 149, 206, 207, 299; Psychology 255 and 290. You may not repeat courses for this requirement.
2. You may apply only **ONE** credit of athletics or intramurals toward the 3 credit graduation requirement.
3. A specially designed physical education program is available if you have a disability or chronic medical problem. Please contact HESA office for more information.
4. **ATTENTION ATHLETES:** WIAC eligibility rules require a 12-hour study load in each semester.
5. **TRANSFER STUDENTS:** If you transfer to UWSP, you must fulfill the 3 credit UWSP wellness general degree requirement.
4. You may take more than 3 credits of wellness courses. Credit in these courses will satisfy general elective options, and will count toward graduation.

WLNS 100. Special Needs. AA
WLNS 101. Exercise in Emotional Health and Well Being.
WLNS 102. Advanced Fitness I. AA
WLNS 103. Advanced Fitness II. AA
WLNS 104. Advanced Fitness III. AA
WLNS 105. Advanced Fitness IV. AA
WLNS 106. Aerobic Dance. AA
WLNS 109. Beginning Bowling. AA
WLNS 111. Advanced Bowling. AA
WLNS 112. Angling. AA
WLNS 113. Independent Walking Programs. AA
WLNS 114. Archery. AA
WLNS 115. Bow Hunting. AA
WLNS 117. Beginning Badminton. AA
WLNS 118. Intermediate Badminton. AA
WLNS 119. Ice Skating Level I. AA
WLNS 120. Ice Skating Level II. AA
WLNS 121. Ice Skating Level III. AA
WLNS 123. Standard First Aid and CPR. HE
WLNS 124. CPR and First Aid Instructor. HE
WLNS 125. Taekwondo Level I. AA
WLNS 126. Taekwondo Level II. AA
WLNS 127. Taekwondo Level III. AA
WLNS 128. Taekwondo Level IV. AA

WLNS 129. Taekwondo Level V. AA
WLNS 130. Taekwondo Level VI. AA
WLNS 131. Sailing. AA
WLNS 132. Cycling. AA
WLNS 135. Beginning Golf. AA
WLNS 137. Beginning Tennis. AA
WLNS 138. Intermediate Tennis. AA
WLNS 139. Beginning Canoeing. AA
WLNS 143. Personal Power Development. HE
WLNS 144. Stress Management. HE
WLNS 146. Life Guarding. HE
WLNS 147. Life Guarding Instructor. HE
WLNS 148. Consumer Health. HE
WLNS 149. Stress Management, Nutrition and Exercise. HE
WLNS 151. Nutrition and Exercise. HE
WLNS 152. Independent Jogging. AA
WLNS 153. Advanced Fitness. AA
WLNS 154. Individualized Exercise Programming. AA
WLNS 155. Jogging AA.
WLNS 157. Recreational Games. AA
WLNS 158. Instruction Racquetball. AA
WLNS 160. Personal Defense. AA
WLNS 161. Independent Walking/Jogging Programs. AA
WLNS 162. Cross Country Skiing. AA
WLNS 165. Ice Skating. AA
WLNS 166. Rollerskating. AA
WLNS 170. Beginning Swimmer. AA
WLNS 172. Water Games. AA
WLNS 173. Scuba. AA
WLNS 174. Swim for Fitness. AA
WLNS 175. Synchronized Swimming. AA
WLNS 177. Fall Recreation. AA
WLNS 180. Softball, Volleyball. AA
WLNS 181. Soccer. AA
WLNS 183. Weight Training. AA
WLNS 185. Advanced Backpacking. AA
WLNS 187. Fall Recreation. AA
WLNS 190. Advanced Canoeing Weekend. AA
WLNS 192. Downhill Skiing Weekend. A
WLNS 193. Intramurals - Individual Participation. AA
WLNS 194. Intramurals - Club Sports. AA
WLNS 195. Intercollegiate Athletics - Women. AA
WLNS 196. Intercollegiate Athletics - Men. AA
WLNS 197. Sport Assistant. AA
WLNS 198. Swim Assistant. AA
WLNS 199. Independent Study. AA
WLNS 200. Tai Chi Level I. AA
WLNS 201. Tai Chi Level II. AA
WLNS 202. Tai Chi Level III. AA
WLNS 203. Tai Chi Level IV. AA
WLNS 204. Tai Chi Level V. AA
WLNS 205. Water Safety Instructor. HE
WLNS 206. Responding to Emergencies - CPR/First Aid. HE
WLNS 207. HIV/Aids. HE
WLNS 208. HIV/Aids - Instructor Course. HE
WLNS 209. CPR for the Professional Rescuer. HE
WLNS 210. CPR for the Professional Rescuer - Instructor. HE
WLNS 211. Tai Chi Level VI. AA
WLNS 212. Tai Chi Level VII. AA
WLNS 213. Tai Chi Level VIII. AA
WLNS 214. Ice Hockey . AA
WLNS 215. Rock Climbing. AA
WLNS 216. In-Line Skating. AA
WLNS 217. Rugby. AA
WLNS 218. Adventure Education. AA
WLNS 219. Triathlon Training. AA
WLNS 220. Advanced Rock Climbing. AA
WLNS 221. Snowshoeing. AA
WLNS 299. Independent Study. HE

Wellness Latent Courses: Not offered recently. Last listed in (01-03) catalog. 107 Aerobics I; 108 Aerobics II; 110 Intermed Bowling; 116 Tourn Archery; 122 Orienteering; 133 Beg Fencing; 134 Intermed Fencing; 136 Intermed Golf; 140 Adv Golf; 141 Build Personal Relationships; 145 Yoga; 150 Diabetic Self Care; 156 Conditioning; 159 Rec Racquetball; 163 Downhill Skiing; 164 Curling; 168 Wallyball; 169 Aquatic Ex; 171 Intermed Swim; 176 Volleyball; 178 Winter Rec; 179 Gymnastics; 186 Military Sci Conditioning; 188 Winter Rec; 189 Adv Cycle Wknd; 191 Cross Country Ski Wknd; 242 Medical Self Care.

Health Promotion and Human Development

(College of Professional Studies)

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Abbreviations

ECED = early childhood education
 FCE = family and consumer education
 FN = food and nutrition
 HD = human development
 HP = health promotion
 HP/W = health promotion/wellness
 SHP = safety and health protection

Child and Family Studies Minor

Consists of 22 interdisciplinary credits.

1. HD 166, 265, 367, 486.
2. Select 10 credits from the following courses with no more than 6 credits in any one group. (Be sure to meet prerequisites for these courses.)
 - a. Communicative Disorders 266.
 - b. ECED 262, 460; FN 253, 490; HD 360, 468, 490.
 - c. Communication 280.
 - d. Psychology 240, 255, 301, 315, 320, 360, 465.
 - e. Sociology 224, 225, 343, 366, 367.

Dietetics Major

1. **Required courses**, 50 credits: HD 265; FN 101, 106, 151, 246, 253, 342, 347, 357, 373, 393, 400, 448, 454, 455, 456, 457.
2. **Required collateral courses**, 51-54 credits: Biology 101 or 160, 285, 333, 286 or Physical Ed 271; Business 380; Chemistry 105 and 106 (or 115 and 116), 220, 260; Economics 210; Math 100 (unless exempt) and 355, Psychology 110; Sociology 101 or Anthropology 101.

Definition: Dietetics is the study of nutrition as it relates to health. When you complete an approved program in dietetics, you meet the minimum academic requirements for American Dietetic Association membership and for application to a dietetic internship program. When you complete an accredited dietetic internship and graduate, you are eligible to write the registration examination to become a registered dietitian.

The educational program in dietetics at UWSP is currently granted developmental accreditation by the Commission on Accreditation for Dietetics Education of the **American Dietetic Association**, 216 W. Jackson Blvd, Chicago IL 60606, 312-899-5400. This professional organization for dietetics practitioners is the advocate of the dietetics profession, serving the public through the promotion of optimal nutrition, health and well being.

Nutrition Minor

Consists of 19 credits.

1. Required: FN 106, 151, 253, 357, 373, 393 or FCE 390 or HP/W 300.
2. Electives, 3 credits from HD 261 or 265; HP/W 304; Psychology 480; Sociology 315.

Family and Consumer Education Major

Notes for teacher certification:

1. See information about the Professional Education Program and Secondary Education curriculum for teacher certification in the **Education** section of this catalog.
2. To graduate with a major in family and consumer education (teacher education option) you must meet the requirements for eligibility to student teach before you register for student teaching. You must achieve a 2.75 GPA in your major, minor, and education courses or be in the upper half of your class before you student teach, and earn a grade of "pass" in all areas of student teaching in order to graduate.
3. **Enrollment caps are in effect.** Before you can apply for teacher certification you must complete 6 credits of required human development and food and nutrition courses, one family and consumer education course, and have a 2.75 grade point average in the major including transfer courses. If there are more applicants than openings, decisions to accept will be made on grade point ranking in the family and consumer education major. A personal interview may be conducted if necessary to make a final decision.

Teacher education option:

1. Required courses, 30 credits: HD 166, 261 or 265, 367, 372, 381, 466, 486; FN 106, 151, 253, 357.
2. Courses required for teacher certification, 50-51 credits: FCE 290, 390, 391, 392, 394, 396, 398, 400; Education 205, 351, 381, 386; Political Science 201; History 211 (or 120, 130, 379, 382, or 385 if BS), 212; Humanities from Area 1 and Area 2.
3. Required collateral courses, 9 credits: Economics 210; Psychology 110; Sociology 101.
4. After you have completed 40 credits, apply for admission to the Professional Education Program. For a list of criteria see the **Education** section of this catalog.

Family life education option:

1. Required courses, 43 cr: HD 166, 261, 265, 367-3 cr, 372, 381, 397-5 cr, 466, 486; FCE 390, 392, 400-1 cr; Communication 280; HLED 140; Sociology 316.
2. Required collateral courses, 6 credits: Psychology 110; Sociology 101.
3. Required minor: Choose one from adventure education, health education, nutrition, sociology, Native American and rural social work, social science, social science in health, foreign language, computer information systems, women's studies, youth programming and camp management, peace studies, web and digital media development, business administration, gerontology, military science, psychology.

Health Promotion Major (HP)

Definition: The health promotion/wellness program trains professionals to facilitate behavior change, promote healthy lifestyles, and deliver quality programming.

Enrollment Requirements:

1. If you wish to major in health promotion you should complete the following courses during the first two semesters you are on campus: English 101/102 or 150; Biology 160; Chemistry 100 or Physics 100; HP/W 101, 201, 226; Psychology 110.
2. There are two levels of students in the major.
 - a. **Premajor:** When you declare the major, you must apply through your HP/W adviser before you complete 60 credits. Overall cumulative grade point requirements are: at least a 2.50 GPA if you have less than 30 credits; at least 2.65 GPA if you have 31-59 credits; and at least a 2.75 GPA if you have more than 60 credits, including transfer credits.
 - b. **Major:** To be accepted into the major, you must have completed the courses listed in 1. above plus Biology 285 and SHP 210.

Health Promotion Requirements

Consists of 77 credits, including prerequisites, collaterals, and laboratory courses (14 will also count as GDRs, and 12 are HP/W 450 off-campus internship).

1. **Required:** Current certification in CPR and First Aid (may be met by taking Wellness 123); HP/W 101, 201, 226, 300, 301, 304, 305, 312, 320, 340, 360, 401, 410, 420, 450; SHP 210, 330.
2. **Collateral requirements:** Physical Education 271 or Biology 286, FN 253 or 353, Psychology 385 and their prerequisites.
3. **Laboratory science:** Biology 160, 285, Chemistry 100 or Physics 100. See your adviser for specific requirements and permission to substitute higher level science courses.
4. **Minor or emphases:** With adviser approval, complete ONE of the following:
 - a. A minor of 18-24 credits. Select from safety and health protection, business, communication, gerontology, health education, nutrition, psychology, sociology, youth programming and camp management. (See each minor for requirements.)
 - b. One 18 credit emphasis.
 - c. Two 9 credit emphases.
5. **GPA contract/appeal:** If you do not meet the GPA requirements listed above, you must work with your HP/W adviser to develop an approved plan that constitutes a one semester contract for achieving the required GPA. If you are unable to attain the required GPA within the allotted time frame, you will not be allowed to register in professional courses and will be referred to the Student Academic Advising Center for assistance. You may reapply to the major once the GPA requirement is met. If you have declared academic bankruptcy, you may apply to the major by submitting a career plan and having it approved by the HP/W coordinator. You will then be placed on contract and expected to meet the required GPA. If you wish to appeal the minimum GPA requirement, you must submit a written request to the program coordinator and receive a majority vote of the HP/W faculty.
6. **Practicum:** You must complete the exercise practicum plus two more selected from stress management, nutrition, cardiac rehabilitation, promotion, employee wellness, advanced personal training, UWSP lifestyle

assistant, or others. You may apply for an internship experience ONLY after passing three practicums.

7. **Internship:** HP/W 450. Prereqs: Minimum 2.75 cumulative GPA and current certification in First Aid and CPR.
8. **NOTE:** HP/W 101, all 360s and 430s, 401, and 450 are offered as pass/fail only.

Emphases for Health Promotion

You may choose 18 credits for one emphasis area or 9 credits from two emphasis areas in place of a minor. The HP/W handbook lists course options for each emphasis. You must meet with your adviser to create an acceptable plan before beginning academic work in any emphasis.

1. **Experiential and adventure-based programming:** adventure education, camp leadership and management, environmental education, experiences or certification in adventure programming.
2. **Gerontology:** topics and work with the elderly.
3. **Food and nutrition:** nutrition concepts and application to health conditions in selected populations.
4. **Business:** topics in accounting, corporate communication and management relevant to the health care industry and/or facility management.
5. **Psychology:** topics in psychology pertaining to health in selected populations.
6. **Personal Trainer:** advanced strength training including ACSM and NSCA certification, aerobic activity, facility management and marketing.
7. **Preprofessional:** preparatory work for advanced study in physical therapy, chiropractic, medicine, etc.
8. **Community wellness:** community health topics, child and family health, sociology of health, environment and sustainability.
9. **Holistic/alternative:** health counseling, group processes, experiences/certification in alternative health, certification in massage therapy.
10. **Individually planned:** create individual plan in consultation with your HP/W adviser to meet specific career goals.

Health Promotion/Wellness Concentration for Nonmajors

1. For students pursuing a major outside of HP/W, but who already have work experience in a related health area. You must submit a written plan of study and obtain special permission for enrollment from your major department and the HP/W coordinator. Credits for work experience may be granted with approval of the UWSP experiential learning program coordinator and the HP/W faculty. To be accepted into the concentration you must have a 2.75 overall GPA.
2. Nonmajors may take HP/W major courses if:
 - a. Your overall GPA is equal to that required of majors (see above),
 - b. Courses are related to your field of study (e.g. nutrition, or preprofessional preparation),
 - c. Seats are available in the class only after majors have registered, and
 - d. You have permission of the instructor.
3. The concentration consists of 18 credits selected from: HP/W 101, 102, 143, 148, 201, 300, 301, 304, 305, 320, 399, 410, 420; FN 253 or 353; Psychology 385; SHP 210, 330.

Safety and Health Protection Minor

This minor is a professional training program that encourages cross training of professionals to better reduce job- and lifestyle-related risks. By integrating behavior facilitation techniques with occupational safety and health knowledge and strategies, more complete risk prevention strategies are possible. SHP concepts and skills are used in manufacturing, electrical, bio-tech, general business, health care, governmental and community settings by various occupational safety and health positions.

The minor consists of 18 credits:

1. Required: SHP 210, 310, 311, 330, 360.
2. Electives, 3 credits: After consulting with the SHP coordinator and your major area adviser, select from: Math 105, 109, 355; Psychology 300; Business 347; English 251; Interior Architecture 360; HP/W 300, 304, 399, 420, and others with adviser permission.

Academic Standards in HPHD

1. You may declare a major in dietetics, or family and consumer education at any time.
2. To graduate with a major in dietetics or family and consumer education (noncertification option) you must have a 2.00 cumulative grade point average, and a 2.00 GPA in all major required courses, including transfer courses, regardless of any declaration of academic bankruptcy.
3. Overall cumulative grade point requirements in health promotion are: at least a 2.50 GPA at 30 credits; at least a 2.65 GPA at 60 credits; and at least a 2.75 GPA with more than 60 credits. A 2.75 cumulative GPA must be maintained through graduation.
4. See the **More Academic Information** section of this catalog for the policy on repeating courses.

Test-Out Policy

The School of Health Promotion and Human Development will offer test-out for all its general degree requirement (GDR) courses: HD 166, 261, 265, 367, 381; FN 151, 357; HP/W 102, 103, 106, 107, 110, 142, 143, 148, 149, 206, 299. The comprehensive written examinations will be based on materials normally covered in the course. Grading will be pass/fail with the minimum passing grade equivalent to the most recent class average grade.

If you wish to take a test-out exam, first confer with the HPHD unit head. Then confer with the faculty member who most recently taught the course who will inform you in writing of the required minimum passing score prior to administering the exam and provide the results to you in writing within two weeks of taking the exam. You may take a test-out exam only once.

Master of Science Degrees

The two Master of Science degrees, Human and Community Resources and Nutritional Sciences are described in the **Graduate** section of this catalog.

Courses in Family and Consumer Education

FCE 290. Directed Study: Observation and Participation. 1 cr. Gain better understanding of role of family and consumer education economics classroom teacher; learner characteristics, instructional materials, integration with disadvantaged and handicapped learners. 1 hr class or 2 hrs observation/participation every other wk.

FCE 381/581. Course Construction for Vocational Education. 2 cr. Develop curriculum for post-secondary school programs; develop a course of study, instructional package, and/or unit of instruction.

FCE 382/582. Techniques for Teaching Vocational Education. 2 cr. Techniques and materials for instructional planning and teaching post-secondary vocational education courses.

FCE 383/583. Evaluation in Vocational Education. 2 cr. Techniques for analyzing post-secondary education programs; interpret evaluation data. Prereq: Cons instr.

FCE 385/585. Introduction to Vocational Guidance. 2 cr. Occupational opportunities and statutory requirements in vocational and technical education programs.

FCE 390/590. Adult Education. 2 or 3 cr. Philosophy, history, techniques, and experiences in teaching adults.

FCE 391. Curriculum for Family and Consumer Education. 3 cr. Philosophy, curriculum, and evaluative materials for the family and consumer education program K-12.

FCE 392. Techniques for Teaching Family and Consumer Education. 2 cr. Techniques, materials, and administration for family and consumer education programs K-12.

FCE 394/594. Principles of Career and Technical Education. 2 cr. Philosophy, organization, and administration of career and technical education; emphasis on Wisconsin programs.

FCE 396/596. Cooperative Occupational Education Programs. 2 cr. Philosophy, organization, and teaching techniques for cooperative vocational programs. Prereq: Admission to Prof Ed Prog.

FCE 398. Student Teaching in K-12 Family and Consumer Education Programs. Variable cr; pass/fail. Observation and teaching in a K-12 family and consumer education environment under the guidance of cooperating teachers and university faculty.

FCE 400. Seminar on Teaching for Student/Intern Teachers. 1-2 cr. Structured group discussion on aspects of teaching that emerge during full-time field experiences. Prereq: Con reg in 398 or 498.

FCE 498. Intern Teaching. Variable cr; pass/fail. Structured field experiences in approved school programs. Interns are certified by the DPI and are employed under contract with schools to design, deliver, and assess instructional programs in grades n-k-12. Prereq: Complete all methods courses and 75% of content courses in approp major. Con reg in approp section of Educ 400 may be required.

FCE 789. Adult Learner. 3 cr. Analyze research and theory that applies to the formal and informal instruction of adults.

FCE 790. Workshop in Family and Consumer Education. 1-4 cr. Subtitle designates area. May repeat for credit with different subtitles.

FCE 791. Curriculum in Family and Consumer Education. 3 cr. Trends, evaluation of programs, principles of curriculum structuring, development of teaching guides.

Family and Consumer Education Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

792 Perspectives in Family/Consumer Education, 2-3 cr, (99-01)
793 Evaluation of Family and Consumer Education, 3 cr, (99-01)

Courses in Food and Nutrition

FN 101. Introduction to the Professions of Dietetics and Nutrition. 1 cr; pass/fail. Introduction to fields of nutrition, dietetics, and food service administration. Educational requirements and role of the dietitian in varied settings.

FN 103. Healthy Weight Management. 2 cr. Look at weight management from a nondiet, nongimmick, and lifestyle improvement approach, including Prochaska's stages of change, paradigm shifts, cultural bias, nutrition, fitness, and body image. May not earn credit in both FN 103 and HP/W 103.

FN 106. Introductory Foods. 3 cr. Introduction to basic physical and chemical properties of foods; interaction and reaction of food in food preparation procedures; evaluate prepared products. 2 hrs lec, 3 hrs lab per wk.

FN 151. Contemporary Nutrition. 2 cr. Apply nutrition principles to contemporary problems in food choices and health. GDR:WL/HE

FN 246. Food Science. 3 cr. Scientific aspects of the study of foods and food composition; chemical and physical interactions of food components during processing and preparation. 2 hrs lec, 3 hrs lab per wk. Prereq: 106, 253; Chemistry 220.

FN 253. Introduction to Nutrition and Nutrient Metabolism. 3 cr. Basics for and use of nutrient recommendations and dietary guidelines; digestion, metabolism, use and interrelationships of foods and nutrients. Prereq: So st.

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FN 342. Menu Planning Applications. 4 cr. Menu impact when you apply basic principles of food service management in food service, clinical and community settings. Menu planning factors including cost, convenience, nutrition, equipment, labor, food texture modifications, food assistance programs, buffet dining. Concepts of purchasing, product comparisons, recipe standardization, menu merchandising, and appropriate menu choices for therapeutic diets. 3 hrs lec, 3 hrs lab per wk. Prereq: 347, 373 or con reg.

FN 347. Introduction to Food Service. 5 cr. Basic principles of food service management for all types of commercial and noncommercial food service organizations. Impact of current social, economic, technological and political factors on food service operations. Food service facility design. 5 hrs lec per wk. Prereq: 246 or con reg.

FN 351. Elementary Nutrition. 3 cr. Individual food needs and the foods that supply those needs, especially for preschool and elementary-age children.

FN 353. Nutrition: Assessment and Program Coordination. 3 cr. Basic nutrition concepts including application to specific health-related conditions of adults.

FN 357. Ecology of Foods. 3 cr. Introduction to ecology of food and food systems. Sociocultural, political and economic influence on food choices and their environmental consequences. Overview of alterations in human diet caused by global environmental changes including climate, toxic pollution, degradation of terrestrial and marine environments, loss of species and biodiversity. Role of rapidly growing human populations, their food choices and patterns of resource use. Policies for regulation and strategies for prevention and control of problems. GDR:EL

FN 373. Nutrition Throughout the Life Cycle. 3 cr. Nutritional requirements, challenges, community nutrition programs, and eating patterns throughout the life cycle. Prereq: 106, 253.

FN 393. Educational Techniques in Dietetics. 2 cr. Principles and theories of learning. Resources, methods and techniques for teaching dietetics. Group dynamics and facilitation. Program planning and evaluation. 1 hr lec, 2 hrs lab per wk. Prereq: 253, Communication 101 recommended.

FN 395. Field Experience. 3 or 4 cr. Supervised program at a cooperating business site. 1 hr seminar per wk for 1 cr, plus a minimum of 40 hrs arranged at the business site for each addl cr. May repeat for 9 cr max. Prereq: Cons instr.

FN 397. Field Work. 1-8 cr. Supervised training work program in a cooperating off-campus establishment; work experience and supervision followed by an evaluation of individual progress.

FN 399. Special Work. Upperclass dietetics majors may arrange for independent study with cons assoc dean. Credit based on scope of project.

FN 400. Professional Issues in Dietetics. 2 cr. Didactic Program in Dietetics (DPD) prepares students for dietetic internship to apply principles and theories to nutrition care of individuals and groups and develop skills for life-long professional learning. Prereq: Sr st.

FN 448/648. Food Service Operational Management. 4 cr. Functional management experience to plan, organize, implement, direct, and control the laboratory cafeteria. Applied concepts in quantity food production, food safety, sanitation (HACCP), recipe standardization, nutritional analysis, cost/profit analysis, inventory management, time and temperature relationships, food delivery, cafeteria promotions and cash controls using management skills. In-service presentations on HACCP and policies and procedures. 2 hrs lec, 6 hrs lab per wk. Prereq: 342.

FN 452. Food Service Sanitation. 1 cr. Sanitation and safety in food preparation, service, storage, and handling. Prevention of microbial problems involving personnel, equipment, and total food service operation.

FN 454/654. Nutritional Assessment and Counseling (formerly 465/665). 3 cr. Study nutrition assessment parameters used to develop a nutrition care plan. Current counseling theories; interviewing and counseling techniques for use with various nutrition-related diagnoses. 2 hrs lec, 2 hrs lab per wk. Prereq: 457/657 or con reg.

FN 455/655. Medical Nutrition Therapy. 4 cr. Alterations in nutritional requirements and metabolism that accompany disease states; application of nutritional therapies to treat disease states. 3 hrs lec, 2 hrs lab per wk. Prereq: 457.

FN 456/656. Advanced Community Nutrition. 4 cr. Apply nutrition concepts in public health setting; disease prevention and health

promotion; analyze related programs and legislation with nutrition components; program planning strategies. Prereq: 373, 357 recommended.

FN 457/657. Advanced Nutrition and Human Metabolism. 3 cr. Integrated study of human nutrient physiology and metabolism. Biochemical and physiologic basis for the role of nutrition in health and disease and nutritional implications of metabolic disorders. Prereq: 373, Chemistry 260, Biology 285, or cons instr.

FN 462. Applied Scientific Research. 2 cr. Applied basic science and epidemiological research for health professionals. Prereq: Math 355.

FN 490/690. Workshop. 1-4 cr. Subtitle will designate area.

FN 748. Recent Advances in Food. 3 cr. Current issues and developments in our food system. Contemporary issues include organic food production, whole foods, GMOs (biotechnology), nutraceuticals, functional foods, dietary supplements, non-nutritive additives (artificial fats, sweeteners, probiotics).

FN 749. Seminar in Food and Nutrition. 3 cr. Critical review and analysis of current research literature; formal student presentations; group discussions.

FN 751. Recent Advances in Community Nutrition. 3 cr. Developments in public health nutrition, current epidemiologic studies, assessment techniques in populations, and changes in health care treatment methods. Lectures, reports, and discussions.

FN 752. Recent Advances in Clinical Nutrition. 3 cr. Analyze and review recent advances in clinical application of nutrition in disease prevention, treatment and management. Current primary research literature, including interaction between diet and genetics and role of complementary and alternative medical therapies. Student literature research project and presentation. Prereq: 457/657 or cons instr.

FN 754. Vitamins and Minerals. 3 cr. Recent issues of vitamins and minerals in human nutrition and chronic disease prevention; micronutrient supplementation issues, and analysis of research. Prereq: 457/657 or cons instr.

FN 757. Contemporary Issues. 1-4 cr. Course topics vary. May include sports nutrition, eating disorders, community nutrition in developing countries, supplements, women's health issues, etc. Subtitle will designate topic.

FN 758. Older Adult Nutrition. 3 cr. Nutritional problems of older individuals including underlying age-related changes in physiology, nutrient absorption and use, socioeconomic and cultural changes. Apply knowledge to nutritional programs for the elderly in various community settings. Prereq: 457/657.

FN 762. Outcomes Based Research. 3 cr. Discussion of qualitative and quantitative experimental design and research methods to understand scientific basis for nutrition practice and policy. 3 hrs lec per wk. Prereq: 457/657 or cons instr.

FN 781. Graduate Practicum, Clinical Nutrition. 4-6 cr. Experience and evaluation in cooperating health care facilities. Minimum 60 hrs on-site experience for each cr. Prereq: Cons instr.

FN 782. Graduate Practicum, Community Nutrition. 4-6 cr. Experience and evaluation in selected community health-related programs. Minimum 60 hrs on-site experience for each cr. Prereq: Cons instr.

FN 783. Graduate Practicum, Food Service Administration. 4-6 cr. Experience and evaluation in assigned food service facilities. Minimum 60 hrs on-site experience for each cr. Prereq: Cons instr.

FN 794. Readings. 1-3 cr. Independent reading and review of current literature; written reports. Prereq: Cons instr.

FN 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization.

FN 798. Project. 1-3 cr. Independent study and work to create, implement, and evaluate a graduate project in area of specialization, including developing objectives, literature review, target population needs assessment, capacity building among stakeholders, data collection and analysis.

FN 799. Thesis. 2-6 cr. Independent study and work to develop and complete a graduate research thesis in area of specialization, including hypothesis development, literature review, data collection, analysis, and interpretation. Project focuses on specific nutrition issue, is mentored by major faculty adviser, and culminates in a thesis.

Food and Nutrition Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

445/645 Food Preservation, 1 cr, (91-93)

458/658 Geriatric Nutrition, 3 cr, (01-03)

753 Recent Advances in Nutrition, 3 cr, (01-03)

755 Maternal and Child Nutrition, 3 cr, (01-03)

Courses in Health Promotion/Wellness

HP/W 101. Careers in Health Promotion/Health Protection. 1 cr; pass/fail. Introduction to seven dimensions of wellness, career opportunities in wellness and occupational health and safety; skills and competencies required, content areas, areas of specialization, introduction to professional organizations and journals.

HP/W 102. The Healthy American. 2 cr. Design, prescription, and implementation of personal exercise programs; lifestyle assessments, diet techniques, stress management, fitness theory. 8 wks lec (2 hrs/wk), 8 wks independent activity study. GDR:WL/HE

HP/W 103. Healthy Weight Management. 2 cr. Look at weight management from a nondiet, nongimmick, and lifestyle improvement approach, including Prochaska's stages of change, paradigm shifts, cultural bias, nutrition, fitness, and body image. May not earn credit in both FN 103 and HP/W 103. GDR:WL/HE

HP/W 106. High Level Wellness. 2 cr. Factors and strategies contributing to developing one's full potential. Assess current behaviors, set goals, plan strategies, remove obstacles, learn techniques of focusing, imagery, and selective intensive practice. GDR:WL/HE

HP/W 107. Special Topics in Seven Dimensions of Wellness. 2 cr. Use the social, physical, emotional, career, intellectual, environmental, spiritual (SPECIES) model to provide overview of wellness dimensions and specific academic and experiential in-depth coverage of one or two dimensions. Subtitle will designate focus. May repeat for credit with different subtitles. GDR:WL/HE

HP/W 110. Loss and Grief. 2 cr. Explore the issues of grief. Develop working model of the grief process, recognize healthy and unhealthy expressions of grief, review the literature on grief, become comfortable talking about personal issues related to grieving and provide support for others to do so. GDR:WL/HE

HP/W 142. Mindful Meditation. 2 cr. Philosophical foundations of mindful meditation; explore meditation as means to personal stress management; incorporate yoga as part of meditation; begin personal meditation practice. GDR:WL/HE

HP/W 143. Focusing Your Mind. 3 cr. A three-part class to learn hatha yoga, mindful meditation, and self-hypnosis. GDR:WL/HE

HP/W 148. Creating Great Relationships. 2 cr. Concepts of fairness, mutuality, shared responsibility, respect; interpersonal skills, identifying and transforming conflict; recognizing, correcting, or avoiding abusive behaviors; creating reciprocal support. GDR:WL/HE

HP/W 149. Personal Wellness for Nontraditional Students. 2 cr. Provides wellness programming and individualized health behavior change opportunities in the areas of exercise, nutrition, and stress management for the nontraditional student. GDR:WL/HE

HP/W 201. Personal Wellness for Preprofessionals. 2 cr. Assess your personal wellness in each dimension; explore variables contributing to personal excellence; complete a behavior change project.

HP/W 206. High Level Wellness. 3 cr. Factors and strategies to develop one's potential. Assess current behaviors, set goals, plan strategies. Learn techniques of organization, intellectual and emotional well-being, motivation, time management, and effective practice techniques. Observe behaviors and self talk, write reflectively. Select role models and research their techniques for reaching excellent performance levels. GDR:WL/HE

HP/W 207. Social and Emotional Wellbeing. 3 cr. Overview of wellness using the SPECIES model, emphasizing social and emotional wellness. Creating and maintaining healthy relationships. Accepting worth; creating, recognizing, and expressing feelings; taking responsibility for behavioral choices. GDR:WL/HE

HP/W 226. Group Leadership and Teaching Skills in Wellness Programming (formerly 126). 3 cr. Leadership experiences in adventure-based education, strength and aerobic training, and health related fitness assessment. Prereq: 101, 201.

HP/W 299. Independent Study/Special Health Behavior Change Topics. 1-2 cr. Independent, self-improvement study covering one or more major health and economic concerns of Wisconsin such as communicable disease, chronic disease prevention and control, injury

prevention, environmental health, reproductive/perinatal health, infant and child care, adolescent health, adult obesity, alcohol and drug abuse. Prereq: Cons instr & completed contract form. GDR:WL/HE

HP/W 300. Health Promotion/Protection Programming: Design, Techniques, and Resources. 3 cr. Develop skills to design program objectives, using educational techniques, and selecting resources appropriate to needs of group. Integrate educational process into behavior change process. Prereq: HP/W major or cons instr.

HP/W 301. Wellness Retreat for Preprofessionals. 1 cr. Participate in optimal wellness retreat with emphasis on emotional and social well-being, group dynamics, and facilitating group interaction. Prereq: Cons instr.

HP/W 304. Behavior Change Facilitation (formerly 204). 3 cr. Beginning skills in health counseling: data interpretation, goal setting, attending, encouraging, challenging, planning strategies for health promotion/protection. Prereq: HP/W major or cons instr.

HP/W 305. Epidemiological Factors in Health Promotion/Protection. 3 cr. Understanding strategy documents developed for prevention and control of national health objectives; pathophysiology, morbidity, and mortality of the 10 leading work-related health problems; use epidemiological principles to analyze risk and recommend appropriate prevention and control intervention strategies. Prereq: Biology 285, cons instr.

HP/W 312. Exercise Physiology. 3 cr. Effects of exercises on speed, strength, skill and endurance; nature of muscular behavior, fatigue; effects of exercise with respect to nutrition, age, sex, and occupation. Prereq: 126 or Physical Education 200/201, Biology 285, cons instr.

HP/W 320. Developing Stress Management Programs. 3 cr. Scientific foundations of stress, stress management techniques including lifestyle, personality, time management, relaxation, and other holistic approaches, strategies for personal stress management. Assessment, prescription, program development. Prereq: HP/W major or cons instr.

HP/W 340. Reading, Writing, Computing and Presenting in Health Promotion. 3 cr. Review basic HP/W literature, read and evaluate research, search and evaluate Internet materials, and write reviews. Develop computer competencies essential to success in health promotion, demonstrate business writing skills, give presentations, and plan and implement training experiences geared to career goals. Prereq: HP/W major, or cons instr.

HP/W 360. Practicum in Health Promotion/Wellness. 1-6 cr; pass/fail. Practical experience as a preprofessional in health promotion/protection, with an emphasis on behavior change facilitation and health promotion/protection. Topics change each semester. Prereq: Cons adviser.

HP/W 399. Special Work. 1-3 cr. Upperclass HP/W majors and graduate students may arrange for independent study after defining learning objectives of project with faculty sponsor approval. Credit based on scope of project. Prereq: Cons instr and HP director.

HP/W 401. The Health Promotion Professional. 1 cr; pass/fail. Transition from student to professional; prepares you to enter internship and job market. Must take last semester before internship.

HP/W 410. Promoting and Marketing Wellness. 3 cr. Assess market opportunities in wellness services, programs, and facilities. Develop marketing and promotional strategies to increase the customer base, provide incentives for behavioral change and enhance revenues for wellness programs, services and facilities. Prereq: 300, 312, 320, FN 353, or cons instr.

HP/W 420. Health Promotion/Protection Management. 3 cr. Develop health promotion/protection programs for community and worksite settings. Assessment, economic evaluation, management strategies, organizational culture, gender, race and issues that affect participation in health promotion and health protection programs. Prereq: 300, 312, 320, FN 353 or cons instr.

HP/W 430. Advanced Practicum in Health Promotion/Health Protection. 1-3 cr. Practical experience as a preprofessional in health promotion/protection to advance skill levels beyond basic requirements. Credit based on scope of experience and time commitment. Topics change each semester. Prereq: Cons instr.

HP/W 440/640. Health Behavior Change. 2-3 cr. Explore the need for behavior change; correlation of behavior change with reduced illness risk and reduced health care costs. Transtheoretical model of behavior change and associated research.

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HP/W 450. Internship in Health Promotion/Wellness. 12 cr; pass/fail. A full semester participation in a community or worksite health promotion/protection setting. Prereq: Completion of ALL coursework; a 2.75 cum GPA; certification in First Aid and CPR.

HP/W 460. People and Ecosystems. 4 cr. Interactions between people and ecosystems and the dependency of the health and sustainability of each upon the other. May not earn credit in both HP/W 460 and Natural Resources 460. Prereq: Jr or sr st; application and cons instr.

HP/W 465/665. Grief and Loss. 3 cr. Explore issues and concerns about grief and loss. Review scientific knowledge about bereavement and guidance on how to help yourself and others through this process.

HP/W 470/670. Healthy Aging. 2-3 cr. Explore aging from a personal position in each of seven dimensions of wellness (social, physical, emotional, career, intellectual, environmental, spiritual). Planning for illness and death. Beliefs, myths, and attitudes about aging. Assess personal behaviors and choices and their impact on aging well. Plan and begin a healthy change.

HP/W 490/690. Contemporary Issues in Health Promotion. 1-3 cr. Topics: change facilitation, health promotion for clients aged 50 and above, health promotion program design for the worksite, integrative medicine, cost benefit justification of health promotion, transforming conflict. May repeat under different subtitles for 6 cr max.

HP/W 715. Advanced Physiology for Health Care Professionals. 3 cr. Examine exercise physiology parameters as they relate to health care for all ages.

HP/W 720. Economic Evaluation in Health Promotion. 3 cr. Literature review regarding assessment of client needs, program design and development, economic and programmatic evaluation. Theory and practice of total quality management and data analysis techniques of continuous quality improvement.

Courses in Human Development

HD 166. The Family: Continuing Concerns. 3 cr. Examine research and theory that relates to complex concerns families face over time. GDR:SS2

HD 261. Child Growth and Development. 3 cr. Concepts and current research findings applied to the study of growth and development of normal children, from conception through adolescence within the context of the family. Prereq: Psychology 110. GDR:SS2

HD 265. Human Growth and Development: A Life-Span Approach. 3 cr. Concepts, principles, and current research findings applied to the study of growth and development from conception through death in the context of family. Includes physical/health-related issues. Prereq: Psychology 110 or cons instr. GDR:SS2

HD 360/560. Infant and Toddler Development. 3 cr. Human development through 2 1/2 years; implications for parents and early childhood education programs; observations.

HD 367. Family Structure and Interaction. 1-3 cr. Family functions; variations in family organization and relationships; apply principles to family decision making during different stages of the life cycle. Prereq: Sociology 101 or Psychology 110, or cons instr. GDR:SS2

HD 372/572. Consumer Economics. 3 cr. Consumer, business, and government interactions in the economic environment; consumer choice and decision making relevant to resource allocation and purchases in the market. May not earn credit in both HD 372 and Economics 272.

HD 381. Families and the Environment. 3 cr. Study the family and the environment and reciprocal relationships between the two systems. GDR:EL

HD 397. Field Work. 1-8 cr. A supervised training work program in a cooperating off-campus establishment; work experience and supervision followed by an evaluation of individual progress.

HD 399. Special Work. Upperclass early childhood education and family and consumer education majors may arrange for independent study with cons chair. Credit based on scope of project.

HD 466/666. Guidance of Children and Adolescents. 3 cr. Current research and theory related to the guidance of children from preschool age through adolescence. Apply to home and school environments.

HD 486. Family Resource Management. 3 cr. Examine various perspectives on how families manage human and nonhuman resources.

HD 490/690. Workshop. 1-4 cr. Subtitle will designate area.

HD 702. Special Topics. 1-3 cr. Subtitle will designate human development topic. May repeat for credit with different subtitles.

HD 760. Family and Community Wellness. 1-3 cr. Study factors which affect the well-being of individuals within the context of family and community. May be offered in 1 cr modules with subtitles.

HD 761. Contemporary Problems in Human Development. 1-3 cr. Apply current research and theory to practical problems affecting children and families. May be offered in 1 cr modules with subtitles.

HD 764. Family and Parent Education. 3 cr. Examine various perspectives of family and parent education programs: course content, teaching strategies, assessment procedures, and resource materials.

HD 765. Issues in Family Living. 2 or 3 cr. Investigate current literature to determine issues affecting the nature and variability of the family.

HD 766. Children and Families in Contemporary Society. 3 cr. Examine current and emerging views, theories, policies, and practices relating to children and families; society's obligations and efforts to address needs.

HD 768. Community Relations and Resources. 3 cr. Investigate contexts in which humans develop, their relationships, and the availability of community resources.

HD 782. Practicum. 1-8 cr. Professional experience in an organization, agency, and/or institution related to your career goals.

HD 789. Adult Learner. 3 cr. Analyze research and theory that applies to formal/informal instruction of adults.

HD 794. Readings. 1-3 cr. Independent reading and review of current literature; written reports. Prereq: Cons instr.

HD 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization.

HD 797. Graduate Project. 2-4 cr. Identify, select and complete a problem/project in early childhood, human development, food service, family and consumer education, or food and nutrition, culminating in a final paper.

HD 798. Research Methods. 3 cr. General understanding of peer reviewed research including research design and data analysis with special attention on understanding, evaluating and interpreting discipline specific research. Prereq: 3 cr undergrad statistics course, or cons instr.

HD 799. Thesis. 2-6 cr. Research project dealing with a specific problem in an academic area and culminating in a thesis.

Human Development Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

362 Adulthood: Developmental Approach, 3 cr, (99-01)

391/591 Study Tour, 1-6-cr, (91-93)

468 Issues in Human Development, 1-2 cr, (99-01)

700 Trends, 3 cr, (99-01)

701 Workshop, 3 cr, (99-01)

763 Theory to Practice in Human Development, 3 cr, (99-01)

767 Family Crisis, 3 cr, (99-01)

769 Seminar in Human Devel/Family Relations, 3 cr, (99-01)

771 Current Problems in Family Economics, 2-3 cr, (99-01)

780 Seminar in Human/Community Resources, 1 cr, (99-01)

Courses in Safety and Health Protection

SHP 210. Introduction to Health Protection. 3 cr. Introduction to the occupational health and safety field and basic principles of safety and industrial hygiene. Exposure to concept of cross training professionals to identify and control job and life risks. Professional connections between occupational safety and health, and health promotion in a variety of issue areas.

SHP 310. Industrial Hygiene and Health Protection. 3 cr. Principles of industrial hygiene and health promotion to reduce combined risks of illness and injury for employees at the work site. Prereq: SHP 210.

SHP 311. Safety and Health Hazard Control. 3 cr. Knowledge and application of safety engineering and management of principles to minimize injury/illness-producing hazards in the work place. Prereq: SHP 210.

SHP 330. Environmental Wellness. 3 cr. Insights into individual, organizational and societal activities that affect the health of the natural environment. How society, organizations and individuals impact their natural environment. How to minimize identified threats

to the health of that environment. Promote intellectual consumerism and citizen advocacy. GDR:EL

SHP360. Practicum in Health Protection. 1-3 cr. Apply advanced occupational safety and health intervention strategies, and elucidate the logical crossover of health protection and worksite health promotion. Topics: disaster preparedness, workers' compensation issues, hazard evaluation and control, safety engineering issues, accident investigation, worksite walk-throughs and documentation, occupational safety and health ethics and professionalism, and ergonomics. Prereq: 310, 311, or cons instr.

SHP 725. Advanced Health Protection. 3 cr. Safety and health protection issues at the worksite. Management and evaluation principles of industrial hygiene and safety engineering. Topics include safety and health concepts, terms, historical development of worksite safety, and its relationship to worksite health promotion, problem identification, hazard recognition, evaluation and control, accident investigation and workers compensation law and practice.

Safety and Health Protection Latent Courses: Not offered recently.

Full description in (xx-xx) catalog.

278	Safety Instructor Certification, 1 cr, (89-91)
306	Industrial and Institutional Safety, 2 cr, (89-91)
397/597	Workshop in Safety Education, variable cr, (89-91)
399	Special Work, variable cr, (89-91)
796	Independent Study, (89-91)

History

(College of Letters and Science)

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Freshman History Course Options

- History 101-102: two-semester survey in world history.
- History 105, 106, 107, 108 is a four-semester sequence which allows you to concentrate on specific periods in European history:
 - History 105-106: two-semester survey of ancient and medieval civilizations.
 - History 106-107: two-semester survey of medieval-early modern civilizations, from late antiquity to the 19th century.
 - History 107-108: two-semester survey of modern European civilization, 16th century to present.
- History 120, 130: minority and ethnic groups.

History Major

NOTE for teacher certification: Enrollment caps are in effect for those seeking teacher certification in history. Contact the History Department early for entrance requirements and application procedures. Also see information about the Professional Education Program and the secondary education curriculum for teacher certification in the **Education** section of this catalog.

Consists of a minimum of 36 credits:

- Twelve credits from basic courses: 3 to 6 credits selected from 3 areas below:
 - European: 105, 106, 107, 108.
 - Non-Western: 215, 216, 219, 220, 253, 254.
 - United States: 211, 212.
 - World: 101, 102.

- History 290.
- Eighteen credits from advanced courses: at least 3 credits from each area. *Asterisk courses will count when it is clear from subtitle that it is appropriate to the area.
 - European:** 302, 303*, 304, 305, 306, 307, 308, 309, 313, 315, 316, 321, 322, 323, 324, 325, 330, 331, 332, 339, 380, 391*, 393.
 - Non-Western:** 303*, 318, 319, 329, 337, 338, 340, 341*, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 381, 391*.
 - United States:** 303*, 355, 356, 357, 358, 359, 360, 366, 368, 369, 371, 372, 373, 374, 375, 377, 378, 379, 380, 381MNS, 382MNS, 383, 384MNS, 385MNS, 386, 389, 391*, 394*.
- History 489 or 490.

History Major with Concentration in Minority and Ethnic Studies

Consists of at least 46 credits:

- Six credits from History 120, 130.
- History 211, 212.
- Six credits from 105, 106, 107, 108.
- At least 18 credits distributed as follows:
 - Nine credits from History 379, 382MNS, 384MNS, 385MNS, 388.
 - Six credits from History 313, 316, 327, 338NW, 340NW, 346NW, 348NW, 352NW, 353NW.
 - One credit of History 399, arranged with adviser.
 - History 489 or 490.
- At least 10 credits from the following courses outside the discipline of history, but no more than 6 credits may be taken in any one category.
 - Humanities: English 240, 280, 282, 382; Music 102; Spanish 382MNS.
 - Social Science: Anthropology 339, 371; Geog 373; Poli Sci 309, 312, 315; Sociology 270, 305, 490 (with appropriate subtitle).

History Minor

Consists of at least 21 credits distributed as follows:

- Twelve credits from basic courses: at least 3 credits from 3 areas below:
 - European: History 105, 106, 107, 108.
 - United States: History 211, 212.
 - Non-Western: History 215, 216, 219, 220, 253, 254.
 - World: History 101, 102.
- Nine credits of 300-400 level history courses.

History Minor for Teacher Certification

Consists of 24 credits:

- Twelve credits from basic courses in 3 areas as follows:
 - European, 0-3 credits from History 105, 106, 107, 108.
 - United States, 6 credits: History 211, 212.
 - Non-Western, 0-3 credits from History 215, 216, 219, 220, 253, 254.
 - World, 0-3 credits from History 101, 102.
- History 290.
- Nine credits of 300-400 level history courses (3 credits each from European, U.S., and non-Western).

History Honors Program

The history honors program provides additional opportunity and challenge to students interested in the intellectual stimulation offered by the program. To graduate in the history honors program:

1. Have a 3.5 GPA.
2. Complete the requirements for history major or minor.
3. Prepare an honors program with your honors adviser and get it approved by the History Department Curriculum and Planning Committee.
4. Complete a minimum of 9 upper division history major credits including:
 - a. History 495, 6 credits. This can apply toward the requirements for the history major.
 - b. An additional special project as part of History 489 or 490.
 - c. OR 3 credits of special work in an approved upper division course.

Academic Standards

1. To graduate with a major or minor in history you must have a cumulative GPA of 2.00 (2.75 to student teach) in all courses required for the major or minor, including transfer courses, regardless of any declaration of academic bankruptcy. See the **More Academic Information** section of this catalog for the policy on repeating courses.
2. All courses in history, except History 489 and 490, are open to all students who meet the prerequisites.
3. No more than 6 credits of History 399 may be accepted toward the major or minor in history.

Test-Out and Credit-by-Exam Policy

You may test-out and/or receive credit-by-exam for all general degree requirement (GDR) history courses.

You may receive credit-by-exam for History 105, 106, 107, 108, 211 and 212 by passing the appropriate Advanced Placement Program Examination (AP) or CLEP (College Level Examination Program) Subject Examination through the UWSP Testing Service. The minimum score for an AP exam is 3 and for CLEP it is the 50th percentile.

To test-out but not receive credit for all other GDR history courses, first consult with the department chair. A comprehensive written exam based on materials normally covered in the course will be administered by the faculty member who teaches the course. The minimum required score for all such exams is a B- or its numerical equivalent. You may take an exam for credit or test-out only once.

Courses in History

The * indicates that these topical courses may be repeated for credit with different subtitles.

HIST 101(NW). World History to 1500. 3 cr. Major patterns of human society and civilization prior to the modern era, comparing social and political institutions as well as cultural and religious traditions from Africa, Asia, Europe, Mesoamerica and the Middle East. GDR:HI

HIST 102(NW). World History since 1500. 3 cr. Major patterns of human society and civilization in the modern and contemporary eras, analyzing social and political institutions as well as cultural and religious traditions in Africa, Asia, Europe, Latin America, and the Middle East. GDR:HI

HIST 105. Ancient History. 3 cr. Ancient Near East, Greece, and Rome. GDR:HI

HIST 106. Medieval History. 3 cr. Europe and the Mediterranean world, 4th to 16th centuries. GDR:HI

HIST 107. Early Modern European History. 3 cr. 16th to 19th centuries. GDR:HI

HIST 108. Modern Europe. 3 cr. 19th and 20th centuries. GDR:HI

HIST 120. Ethnic Groups in Europe. 3 cr. Modern European ethnic and cultural groups; origins, accomplishments, current trends.

HIST 130(MNS). Racial and Ethnic Groups in the United States. 3 cr. Origins, accomplishments, current trends.

HIST 198. Reading in the Discipline. 1 cr; pass/fail. Does not apply to history major or minor. Prereq: Con reg in another designated 3 credit history course.

HIST 211. United States to 1877. 3 cr. Prereq: So st. GDR:HI

HIST 212. United States Since 1877. 3 cr. Prereq: So st. GDR:HI

HIST 215(NW). East Asian Civilization to 1800. 3 cr. Traditional cultures, religions, thought, and institutions of China, Korea, Japan, and Vietnam. GDR:HI

HIST 216(NW). East Asia Since 1800. 3 cr. China, Korea, Japan, and Vietnam; imperialism, modernization, nationalism, revolutions, and independence struggles. GDR:HI

HIST 219(NW). Middle East to 1798. 3 cr. Middle Eastern peoples and religions; Islamic civilization, culture, traditions, and institutions from the time of Muhammad to 1798. GDR:HI

HIST 220(NW). Middle East Since 1798. 3 cr. Middle Eastern political, social, and economic problems: confrontation with European imperialism, the impact of two world wars; creation of independent states, development of Arab-Israeli conflict, impact of oil, and the resurgence of Islam. GDR:HI

HIST 253(NW). Colonial Latin America. 2 or 3 cr. European discoveries to independence. Prereq: So st. GDR:HI

HIST *254(NW). Latin American Issues. 1-3 cr. Problems and issues in 19th and 20th century Latin American history. Subtitle will designate topic(s). Prereq: So st. GDR:HI

HIST 260. Modern Global Environmental History. 3 cr. Cultural, social, economic and political influences on the environment worldwide. Topics include imperialism, industrialism and modern environmentalism.

HIST 290. Selected Historical Problems: Sophomore Seminar. 3 cr. Subtitle will designate topic. Prereq: So st and history major/ minor or broad-field social science; or so st and cons instr.

HIST 302/502. Western Culture. 3 cr. Roman period to contemporary times. Topics will be announced. Offered only in UWSP overseas programs.

HIST 303/503. Topics in History and Literature. 1-3 cr. Introduction to historical age or culture by studying literature of the period. Subtitle will designate topic.

HIST 304/504. Ancient Greece. 3 cr. GDR:HU4

HIST 305/505. Ancient Rome. 3 cr. GDR:HU4

HIST *306/506. Studies in Antiquity. 2 or 3 cr. Subtitle will designate topic(s). GDR:HU4

HIST 307/507. Medieval Europe. 3 cr. 4th to 12th centuries.

HIST 308/508. Medieval Europe. 3 cr. 12th to 16th centuries.

HIST *309/509. Medieval Studies. 3 cr. Subtitle will designate topic.

HIST 312. Regional History. 3 cr. History informed by visits to historic locations and cultural centers with approp study and writing. Subtitle will designate focus(es). Offered only in UWSP overseas programs.

HIST 313/513. Women in European History. 3 cr. From the Middle Ages to the present.

HIST 315/515. The Renaissance. 3 cr. 14th and 15th century Europe.

HIST *316/516. The Reformation. 3 cr. Subtitle will designate topic(s) in 16th and 17th century European history.

HIST 318/518(NW). The Arab-Israeli Conflict. 3 cr. The origins, development, and consequences of the Arab-Israeli conflict.

HIST 319/519(NW). Oil and Politics in the Middle East. 3 cr. The impact of natural resource development, especially oil, in modern Middle East.

HIST *321/521. European Social and Intellectual History. 3 cr. Subtitle will designate topic(s).

HIST 322/522. Western Europe in the 17th Century: Crisis and the Search for Order. 3 cr. From the wars of religion to absolutism; constitutional crises; the scientific revolution; Baroque culture; the worlds of Galileo and Newton.

HIST 323/523. Western Europe in the 18th Century: Enlightenment and Revolution. 3 cr. From Louis XIV to Napoleon; the ancien régime; the Seven Years' War; the worlds of Voltaire and Adam Smith; the French Revolution.

HIST 324/524. Western Europe in the 19th Century: The Age of European Hegemony (dominance). 3 cr. From Napoleonic Wars to eve of World War I; romanticism; nationalism; industrialization, European imperialism; the worlds of Marx and Darwin; Victorian culture.

HIST 325/525. Western Europe in the 20th Century: Conflict and Transformation. 3 cr. From World War I to end of the Cold War; Fascism; Nazism; World War II; worlds of Churchill and de Beauvoir; collapse of European imperialism; rise and fall of the Iron Curtain; European union.

HIST 326(NW). South Asia (India) before 1800. 3 cr. Early antiquity to the advent of the colonial era.

HIST 327(NW). Indian Subcontinent, the British Raj and After. 3 cr. From 1800, colonialism and 20th century nationalism.

HIST 329/529(NW). History of Yugoslavia. 3 cr. 1918 to the present.

HIST 330/530. Modern Germany. 3 cr. German culture, society, and institutions, 18th century to the present.

HIST 331/531. England to the 18th Century. 3 cr. English culture, society, and institutions, in the medieval and early modern eras.

HIST 332/532. Modern Britain. 3 cr. British culture, society, and institutions, from the 18th century to the present.

HIST 335. History of Germany Since 1871. 3 cr. Offered only in overseas programs. Topics selected by instructor of the overseas campus. GDR:HI

HIST 336. Selected Topics in the History of Poland. 3 cr. Offered only in overseas program. Topics selected by the instructor at overseas campus.

HIST 337/537(NW). Russian History and Civilization. 3 cr. 10th century to 1917. GDR:HI

HIST 338/538(NW). Soviet Union. 3 cr. 1917 to the present. GDR:HI

HIST 339/539. Habsburg History, 1526-1918. 3 cr. From creation of the imperial idea to the collapse of empire in 1918. GDR:HU4

HIST 340/540(NW). Eastern Europe in the 20th Century. 3 cr. Democracy, nationalism, fascism, and communism in Eastern Europe after 1918. GDR:HU4

HIST 341/541(NW). Topics in Russian History. 3 cr. Subtitle will designate topic(s). May repeat under different subtitles. GDR:HU4

HIST 344/544(NW). The Mongols. 3 cr. Nomadic cultures, religions, societies; Chinggis Khan; Mongol Empire; impact on Eastern Europe, Middle East, Asia; 12th to 16th centuries. GDR:HU4

HIST 345/545(NW). Chinese Civilization to 1644. 3 cr. Culture, religion, thought, institutions, technological achievements; feudalism; Confucianism; gentry society; Buddhism; foreign influences. GDR:HI

HIST 346/546(NW). China Since 1644. 3 cr. Conflicts with the West; modernization; revolutions; transition to communism; contemporary developments. GDR:HI

HIST 347/547(NW). Japanese Civilization to 1868. 3 cr. Culture, religion, thought, institutions; Chinese influences; Buddhism; feudalism; unification, shogunal controls, national isolation. GDR:HU4

HIST 348/548(NW). Japan Since 1868. 3 cr. Modernization; world-power status; imperialism, militarism, totalitarianism; postwar recovery, economic and technological supremacy.

HIST 349/549(NW). Korean Civilization to 1800. 3 cr. Culture, religion, thought, institutions, technological achievements; pivotal role in East Asia; Buddhism; unification; invasions; Confucianism. GDR:HU4

HIST 350/550(NW). Korea Since 1800. 3 cr. End of isolation; power rivalries; Japanese annexation; independence, division, Korean War; postwar development.

HIST 351/551(NW). Vietnamese Civilization. 3 cr. Culture, religion, thought, institutions; invasions, colonialism, cultural survival, independence struggles; earliest times to the present. GDR:HU4

HIST 352/552(NW). Modern Latin American History and Culture. 3 cr. Analysis of political, socio-economic and cultural changes from independence to the present. GDR:HU4

HIST 353/553(NW). Topics in Latin American History. 3 cr. Subtitle will designate topic.

HIST 355/555. Canadian History. 3 cr. From discovery to the present; political, social, economic, diplomatic, demographic history; and relations to the U.S. Prereq: Jr, sr, or grad st.

HIST 356/556. Early America to 1763. 3 cr.

HIST 357/557. Revolutionary America 1763-1815. 3 cr.

HIST 358/558. Era of the Civil War 1815-1877. 3 cr.

HIST 359/559. Rise of Modern America 1877-1939. 3 cr.

HIST 360/560. Recent America Since 1939. 3 cr.

HIST 366/566. American Environmental History. 3 cr. The changing role of nature in American life. Topics include European arrival in North America, the fur trade, industrialization, conservation, pollution, and contemporary environmental politics. GDR:HI, EL

HIST 368/568. The American West. 3 cr. Political, social and environmental history of westward expansion in the 19th and 20th centuries.

HIST *372/572. United States Constitutional History. 3 cr. Subtitle will designate topic(s).

HIST 373/573. American Foreign Relations. 3 cr. Subtitle will designate topic.

HIST 374. United States Military History. 3 cr. Role of the military in American life; colonial period to the present.

HIST 375/575. American Popular Culture. 3 cr. Survey of changing popular American values and ideas embodied in mass-produced texts and leisure time activities from the 17th century to the present.

HIST 377/577. American Society and Thought to 1870. 3 cr. Analysis of changes in the thought, culture, and social structure of America from its settlement until 1870.

HIST 378/578. American Society and Thought Since 1870. 3 cr. Analysis of changes in the intellectual life, culture, and social structure of the United States since 1870.

HIST 379/579. Afro-American History and Culture. 3 cr. Role and contribution of Afro-Americans to culture and society of the U.S.

HIST 380/580. Science and Religion in Europe and America Since 1500. 3 cr. Analysis of the changing relationship between science and the Judaeo-Christian tradition in Europe and North America from 1500 to the present. GDR:HU3

HIST 381/581(MNS or NW). Slavery in the Americas. 3 cr. Slavery and slaveholding societies in the British North America, the United State, the Caribbean, and Latin America (including Brazil) from the 16th through the 19th centuries.

HIST 382/582(MNS). The North American Indian. 3 cr. Earliest times to the present.

HIST 383/583. American Labor History. 3 cr. American workers; colonial times to the present.

HIST 384/584(MNS). Women in American History I: Colonial to Antebellum. 3 cr. Prereq: 211 recommended.

HIST 385/585(MNS). Women in American History II: 19th and 20th Centuries. 3 cr. Prereq: 212 recommended.

HIST 386/586. Women's Rights and Feminism in the United States. 3 cr. From the American Revolution through contemporary feminist issues, emphasizing woman's rights movement in the antebellum period, the push for woman suffrage after the Civil War, the emergence of modern feminism in the early 20th century, and the subsequent varieties of feminism that have developed.

HIST 388. Wisconsin Indians. 3 cr. Topics in history/culture of Indians of Wisconsin and neighboring areas. May repeat with different subtitle.

HIST 391/591. Contemporary Historical Problems. 3 cr. Subtitle will designate topic(s).

HIST *392. Topics in Christian Church History. 1-3 cr. Subtitle will designate topic(s).

HIST 393/593. The Holocaust. 3 cr. Causes and consequences in modern European history.

HIST *394/594. Topics in Environmental History. 1-3 cr. Subtitle will designate focus.

HIST 397. Reading Adjunct Practicum. 1 cr; pass/fail. Upperclass history and broad-field social science majors and minors may participate and run discussion groups for introductory history surveys. Prereq: Cons instr.

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HIST 399. Special Work. Upperclass history majors and minors may arrange for independent study with cons chair. Credit based on scope of project. May count 6 cr max for major/minor.

HIST 489. Great Historians and the Sense of History: Seminar. 3 cr. The great historians and their conceptions of history based on readings from their works; includes historiography and methodology. Prereq: Sr st and history major or minor, or sr st and cons chair.

HIST 490. Selected Historical Problems: Seminar. 3 cr. Subtitle will designate topic(s). Attention given to historiography and methodology. Prereq: 290, sr st and history major or minor, or sr st and cons chair.

HIST 495. Senior Honors Essay. 3-6 cr. Individually guided research project acceptable to student and faculty director. Accomplished over two semesters. Six credits required to graduate from history honors program. Prereq: Acceptance into history honors program.

HIST 762. Readings and Problems in History. 3 cr. Reading seminar focused on a specific historical period and/or topic. Subtitle will designate focus.

HIST 780. Historical Method. 3 cr. Securing and evaluating historical evidence; construction of historical papers based upon various kinds of source materials.

HIST *782. Seminar in American History. 3 cr. Subtitle will designate topic(s).

HIST *784. Seminar in European History. 3 cr. Subtitle will designate topic(s).

HIST *786. Seminar on Non-Western History. 3 cr. Subtitle will designate topic(s).

HIST *790. Historical Issues Workshop. 1-6 cr. Reading, discussion, analysis workshop for elementary or secondary school teachers. Subtitle will designate theme(s).

HIST 796. Independent Study. 3 cr. Planned study to supplement preparation in area of specialization; regular conferences with staff supervisor.

HIST 799. Thesis. 1-6 cr.

History Latent Courses: Not offered recently. Full description in (xx:xx) catalog.

- 225 Southeast Asia, 3 cr, (01-03)
- 228/328 Resource Development-Policy in Europe, 2-3 cr, (85-87)
- 300 Selected Historical Probs, Analysis/ Writing, 3 cr, (85-87)
- 301/501 Western Culture, 3 cr, (85-87)
- 310/510 Medieval Thought and Letters, 3 cr, (91-93)
- 311/511 Age of the Crusades, 2-3 cr, (91-93)
- 320/520 European Economic History, 3 cr, (85-87)
- 333/533 France: Enlighten, Revolution; Napoleon, 3 cr, (95-97)
- 334/534 Modern France, 3 cr, (95-97)
- 342 Polish Immigration to the United States, 3 cr, (85-87)
- 343/543 Africa South of the Sahara, 3 cr, (91-93)
- 367/567 The American Frontier, 3 cr, (85-87)
- 369/569 The American Souty, 3 cr, (01-03)
- 371/571 United States Economic History, 3 cr, (01-03)
- 386/586 Probs in Immigration, Ethnic, Family History, 2-3 cr, (85-87)
- 387/587 American Reform Movements, 2-3 cr, (91-93)
- 389/589 Wisconsin, 3 cr, (01-03)
- 788 Seminar on North American Indians, 3 cr, (01-03)

HOME ECONOMICS

See *Health Promotion and Human Development*, and *Interior Architecture*.

HUMAN DIMENSIONS OF NATURAL RESOURCE MANAGEMENT

See *Natural Resources*.

HYDROLOGY-WATERSHED

See *Natural Resources-Water Resources*.

Individually Planned Major (IPM)

Richard Barker, Coordinator
Room 302, Collins Classroom Center
Phone: 715-346-4537
E-mail: rbarker@uwsp.edu

The individually planned major is for you if you are one of the few students who cannot meet your educational objectives through an existing academic program. It gives you an opportunity to design your own major using unique combinations of existing offerings that will be coherent and challenging. You must plan your program by the end of your sophomore year to be sure the courses you need are available and can be integrated into your major. The individually planned major is not intended to permit you to package courses that you have already completed.

For the individually planned major, you must:

1. Have a minimum grade point average of 2.75 before you enter the program.
2. Meet the requirements for the bachelor's degree you choose. You will graduate in the college housing the greatest number of credits in your major.
3. Earn at least 40 credits in courses numbered 300 and above.
4. To graduate, have a minimum grade point average of 3.00, regardless of academic bankruptcy, in all courses in your individually planned major.

You must decide to begin an individually planned major no later than the second semester of your sophomore year, or by the time you complete no more than 64 credits, excluding the wellness requirement. This requirement can be waived in some cases.

You will have to develop a proposal for your major by consulting with advisers from the departments where you will be doing the work. The proposal must include a title, a statement of the objectives of the program, and a list of specific courses. The program must be approved by your advisers, the IPM coordinator, and the IPM committee.

Individually Planned Major

Consists of:

1. A minimum of 36 approved credits taken from no fewer than two curricular areas, with a minimum of 9 credits in each.
2. At least 20 credits must be in courses numbered 300 or above.
3. You may NOT repeat courses in which you originally earned a grade of D or better.

Contact the IPM coordinator for full details.

Instructional Resources

(College of Professional Studies)

Larry L. Riggs, Coordinator
Room 338B, College of Professional Studies Building
Phone: 715-346-4436
E-mail: education@uwsp.edu OR lriggs@uwsp.edu

Faculty: B Kirby, L Riggs, S Strupp.

Courses in Instructional Resources

IRES 322/522. Workshop in Learning Resources. 1-3 cr. Problems of the Learning Resources Center in elementary and secondary schools. Subtitle will designate area.

IRES 331/531. Audiovisual Media. 3 cr. Select and use pictures, slides, motion pictures, tapes, maps, radio, and television in the communication process; self-instructional laboratory work in operating equipment and producing materials.

IRES 352. Introduction to Library Resources. 2 cr. Introduction to the systematic approach to subject materials, printed bibliography, references and materials of critical search; practice compiling bibliographies using approved forms of descriptive bibliography and footnotes. Prereq: So st with cons instr.

IRES 395. Practicum. 2-5 cr. Practical field experience operating learning resources functions under supervision of cooperating instructional media personnel. May earn practicum credits as part of requirements for Educ 398, or as arranged by coord.

IRES 396. Field Experience. 2-5 cr. Practical experience in a public, academic or special library, in operation of learning resource functions, under supervision of cooperating media personnel. NOT for education majors or those seeking DPI certification as public school media persons. Prereq: Cons coord.

IRES 399. Special Work. Instructional resources minors may arrange for independent study with cons coord. Credit based on scope of project. May apply 2 cr max to minor.

IRES 713. Instructional Design. 3 cr. Apply systems analysis and systems design principles to investigate instructional problems and their solutions; use research data from learning psychology to solve instructional design problems.

IRES 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization; regular conferences with instructional resources faculty supervisor.

Instructional Resources Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

211	Learning Resources Approach to Educ, 1 cr, (89-91)
222	Introduction to Reference, 2-3 cr, (97-99)
223	Building Learning Resources Collections, 2-3 cr, (97-99)
321	General Cataloging and Classification, 4 cr, (01-03)
325	Organiz/Supervis of Learn Resource Center, 3 cr, (01-03)
332	Local Production of Media, 3 cr, (01-03)
341	Educational Trends in visual Media, 3 cr, (01-03)
361	Advanced Photography: Scientific, 3 cr, (89-91)
362	Advanced Photography: Color, 3 cr, (89-91)
363	Advanced Photography: Black & White, 3 cr, (89-91)
771	Design/Use of Individ Instruction Materials, 3 cr, (01-03)
721	Television Use in Schools, 3 cr, (01-03)

Interior Architecture

(College of Professional Studies)

Kathleen Stumpf, Head of the Division of Interior Architecture
Room 101, College of Professional Studies Building
Phone: 715-346-4600
E-mail: Interior.Architecture.Division@uwsp.edu
Web: www.uwsp.edu/ia

Faculty: T Brown, C Burton, N Fernando, J Kangas, P Kluetz, K Stumpf, P Williams, D Zimmerman.

The UW-Stevens Point interior architecture program is accredited by the Foundation for Interior Design Education Research (FIDER) and is an accredited institutional member of the National Association of Schools of Art and Design (NASAD).

Definition: The interior architecture program provides a learning environment that encourages the development of professional designers with the ability to design quality interior environments that contribute to the well-being of individuals and groups. Two portfolio reviews are required to promote excellence in the program.

While in the program, you interact with design professionals through regional, national, and international field trips and through design critiques. You are given typical client problems and solve them through problem-based learning strategies. As you progress through the curriculum, problems expand in complexity and involve realistic constraints, user requirements, budgets, and schedules.

When you graduate from the interior architecture program, a variety of professional opportunities are available to you such as office, residential, retail, and hospitality design and facility management. Other possibilities include product development and representation for manufacturers and design consultation.

Interior Architecture Major (IA)

- Sixty-five credits:
 - IA 100, 101, 110, 160, 204, 211, 212, 216, 301, 304, 309, 311, 314, 318, 370, 393, 395 (3 cr), 400, 411.
 - Ten credits from interior architecture, art, or Forestry 385 (landscape architecture).
- Nine credits: Art 102, 103, one 3-credit art history course (Art 282 or 283).
- Six credits: Psychology 110 and 3 credits of sociology or anthropology to satisfy part of the general degree requirements.
- Portfolio review by faculty committee:
 - Determines admission to the interior architecture professional sequence.
 - Is held concurrently with IA 211.
 - Consists of a minimum of three examples of work completed in each of Art 102 and 103, IA 101, 110, 204, and 211.
 - To qualify you must have a 2.5 GPA in Art 102 and/or 103, IA 101, 110, and 204. If your GPA in these courses is 2.25-2.49, you may request in writing to submit revised work from these courses for reconsideration.
 - Review outcome will be one of the following:
 - Passed:** successful admission.
 - Probationary acceptance:** accepted on probation with expectation of removing deficiencies. Second review is required concurrent with IA 212.

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- 3) **Detailed:** denied admission. May repeat courses and/or independently improve portfolio for re-evaluation.
- f. This portfolio review may be repeated one time only. If we need to limit the number of students we admit to the professional sequence and your portfolios are determined to be of equal quality, the student(s) with the higher cumulative grade point average will be admitted.
5. Lighting design optional emphasis: IA 318, 418.
6. Store design optional emphasis: IA 305, 405.
7. You must purchase a laptop computer after the first portfolio review and before you enroll in IA 212.

Academic Standards

To graduate with a major in interior architecture you must present in a senior portfolio review and have a minimum 2.5 cumulative GPA in all courses required for the major, including transfer courses, regardless of any declaration of academic bankruptcy. You may repeat a course in the major if you follow the course repeat policy found in the **More Academic Information** section of this catalog.

Test-Out, Credit-by-Exam, and Transfer Policy

The Division of Interior Architecture will offer credit-by-exam for all its general degree requirement courses: IA 150, 160, 309, and 310. The comprehensive written examinations will be based on materials normally covered in the course.

If you wish to take an exam for credit, first confer with the IA division head. Then confer with the faculty member who most recently taught the course who will inform you in writing of the required minimum passing score prior to administering the exam and provide the results to you in writing within two weeks of taking the exam. You may take an exam for credit only once for each course.

If you are transferring art or design credits from other institutions, you must submit a portfolio and grade transcripts. Acceptance of transfer credit depends on successful portfolio evaluation and placement.

Courses in Interior Architecture

IA 100. Orientation to the Profession. 1 cr. Explore and develop plan for academic, individual, and professional career objectives.

IA 101. Color and Design. 3 cr. Color and design in relation to the near environment. Lecture/studio. May not earn credit in both IA 101 and Art 101. Prereq: IA major or cons instr.

IA 110. Architectural Drafting. 3 cr. Study and develop architectural drafting skills; multiview conventions, lettering, detailing, drawing reproduction techniques. Lecture/studio. Prereq: IA major or cons instr.

IA 150(NW). Cross Cultural Survey of Applied Design. 3 cr. Compare and contrast the design and use of everyday manufactured goods in Western culture with their counterparts in a variety of non-Western societies. Explore material culture from micro to global view of the home, workplace and beyond. GDR:HU1

IA 160(MNS). Survey of Design: Minority Cultures in the U.S. 3 cr. Understanding the design of utilitarian objects and the design of space in selected Native American and non-European immigrant cultures. Investigates stereotype, discrimination, majority influence and historical tradition as a concept of design evolution in the U.S. GDR:HU1

IA 200. Introduction to Professional Development. 1 cr. Portfolio and resume development. Plan for meeting career objectives. Prereq: IA major or written cons instr.

IA 204. Presentation Techniques I. 3 cr. Basic application of drawing, sketching, and describing architectural interiors and furnishings to communicate design concepts. Lecture/studio. Prereq: 101 and 110.

IA 211. Interior Architecture I. 4 cr. Analyze human and environmental factors used to create supportive space for human activity; develop a design methodology. Lecture/studio. Prereq: 204.

IA 212. Interior Architecture II. 4 cr. Small scale interior space planning with emphasis on function, aesthetics and barrier-free environments. Lecture/studio. Prereq: 211.

IA 216. Materials, Finishes, and Technology. 3 cr. Select materials and furnishings based on analysis of human factors, aesthetics, technology, market availability; processes, resources and interior architectural detailing.

IA 233. Textiles for Interiors. 3 cr. From fiber to finished fabric, visual recognition, selection, use, and care of textiles for interiors.

IA 300. Professional Development for Internship. 2 cr. Portfolio and resume development for internship. Business and design practice procedures, philosophies, ethics, marketing, sales and resources. Prereq: IA major or written cons instr.

IA 301. Design Charrette (formerly 300). 1 cr. Solve a design problem in a short period of time. Subtitle will designate area of design. May repeat under different subtitles. Prereq: 212.

IA 304. Presentation Techniques II. 3 cr. Advanced application in color drawing, sketching, and describing architectural interiors and furnishings to communicate design concepts. Lecture/studio. Prereq: 204 and 212.

IA 305. Store Planning and Design. 3 cr. Apply marketing theory, concepts and practice to design and development of physical retail spaces; review case studies; total project design, development and presentation. Lecture/studio. Prereq: 212.

IA 306. History of Architectural Design in the Americas. 3 cr. Survey structural and interior architecture in the Americas.

IA 309. History of Interior Design and Decorative Arts. 3 cr. Major periods and styles of architecture, furniture, and accessories used in interior environments. GDR:HU1

IA 310(NW). History of Non-Western Interior Design and Decorative Arts. 3 cr. Major periods and styles of architecture, furnishings, and accessories. Subtitle will designate area. May repeat under different subtitle. GDR:HU1

IA 311. Interior Architecture III. 4 cr. Office design and systems; programming, schematics and space planning. Criteria for selection of office furnishings and materials. Lecture/studio. Prereq: 212.

IA 313/513. Architectural Environments. 3 cr. How technology, culture, economics, and psychosocial needs affect public and private architectural spaces; impact on the natural environment. GDR:EL

IA 314. Architectural Systems. 3 cr. Aesthetic and technological analysis of structural, mechanical, and lighting systems and materials.

IA 318. Lighting Design. 3 cr. Lighting design and technology applied to interior architectural spaces. Lecture/studio. Prereq: 212.

IA 331. Architectural Watercolor. 3 cr. Problems in watercolor, emphasizing transparent and opaque watercolor on paper. Includes field sketching. Lecture/studio. Prereq: 204 or cons instr.

IA 360. Ergonomics. 3 cr. Analyze and evaluate human-task systems, human capabilities and limitations, principles of displays, controls, equipment, work stations, and fundamentals of biomechanics. Recognize design criteria for prevention of injury, work-related illness, and psychological stress. Prereq: Cons instr.

IA 370. Computer Applications in Interior Architecture. 3 cr. Apply graphic, architectural, and related software in space planning and design of interior environments. Lecture/studio. Prereq: 211.

IA 391/591. Study Tour. 1-6 cr. Study tours to appropriate industries, museums, or facilities. Subtitle will designate area. May be repeated. Prereq: IA major or written cons instr.

IA 393. Comprehensive Design Study Tour. 1 cr. Comprehensive design study tour to appropriate industries, museums, or facilities. Subtitle will designate area. May be repeated. Prereq: IA major or written cons instr.

IA 394. Field Experience. 1-3 cr. A supervised program of applied design practice in the field. Prereq: 212.

IA 395. Internship. 3 or 4 cr. A supervised program at an approved cooperating design practice site. May repeat for 9 cr max. Prereq: 212.

IA 399. Special Work. 1-3 cr. Upperclass majors may arrange for independent study with cons assoc dean. Credit based on scope of project. Prereq: IA major or written cons instr.

IA 400. Professional Development. 3 cr. Portfolio and resume development. Plan for meeting career objectives. Business and design

practice: procedures, philosophies, ethics, marketing, sales and resources. Prereq: 311 or written cons instr.

IA 405. Advanced Store Planning and Design. 3 cr. Advanced application of design and development of physical retail spaces. Design, develop and present total project. Lecture/studio. Prereq: 305.

IA 411. Interior Architecture IV. 4 cr. Comprehensive design experience. Advanced study of design processes, theory, regulations, and codes. Lecture/studio. Prereq: 311.

IA 415. Problems in Interior Architecture. 2-4 cr. Develop and present major project; may include client interaction, research, programming, space planning, visual concept, reports. Lecture/studio. May repeat for 8 cr max. Prereq: 311 or written cons instr.

IA 418. Advanced Lighting Design. 3 cr. Apply advanced lighting design and technology to interior architectural spaces. Lecture/studio. Prereq: 318.

IA 470. Advanced Computer Applications in Interior Architecture. 3 cr. Advanced application and exploration of graphic visualization, architectural, and related software in space planning and design. Lecture/studio. Prereq: 370.

IA 490/690. Special Topics. 1-4 cr. Subtitle will designate area. May be repeated. Prereq: IA major or written cons instr.

International Studies (College of Letters and Science)

Eric Yonke, Coordinator

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Abbreviation: INTL = International Studies

Definition: International studies is an interdisciplinary program designed to help you acquire expertise in the social and cultural development of various world regions, develop linguistic skills, and prepare for careers in the globalizing economy.

International Studies Major

Consists of 33 credits plus foreign language requirement.

1. **Core courses**, 9 credits: History 101 or 102; Geography 110 or 113, Political Science 160 or 180.
2. **Language requirement**, 0-19 credits:
 - a. If your native language is English, you must complete or test out of one foreign language course beyond the fourth semester college level.
 - b. Foreign students, whose native language is not English, may use English to fulfill the language requirement by completing English 102 or 150 and the UWSP writing emphasis (WE) requirement.
3. **Areas of concentration**, 21 credits spread between two areas, 9 credits minimum in each area; 15 credits must be in courses numbered 300 and above. Courses designated with an asterisk (*) and all INTL courses must have the subtitle approved for the area.
 - a. **Africa and Middle East:** English 281, 282*; Geography 300; History 219, 220, 318, 319; INTL 300, 381, 391, 399; Political Science 372.
 - b. **Asia:** Art 397*; Business 496*; Geography 327; History 215, 216, 219, 220, 225, 312*, 318, 319, 326, 327, 344, 345, 346, 347, 348, 349, 350, 351; INTL 300, 381, 391, 399; Philosophy 105; Political Science 370, 371; Religious Studies 100, 333, 340, 341; Theatre 461.
 - c. **Australia, New Zealand, and Southwest Pacific:** Anthropology 338; English 383*; Geography 302; History 312*; INTL 300, 381, 391, 399; Political Science 490*.

- d. **Europe:** Art 282, 283, 382, 383, 385, 386, 387, 388, 389 397*; Business 490*; Comparative Literature 101, 102; English 211, 212, 283, 285, 288, 311, 321, 323, 324, 325, 327, 330, 333, 334, 336, 346, 361, 362, 366, 378; Foreign Language 381*; French 340, 341, 342, 350, 355, 360, 370, 381, 493; Geography 328; German 340, 355, 360, 370, 381, 493; History 107, 108, 302, 304, 305, 306, 307, 308, 309, 312*, 313, 321, 323, 324, 325, 329, 330, 332, 335, 336, 337, 338, 339, 340, 341, 393; INTL 300, 381, 391, 399; Interior Architecture 391; Music 220, 221, 300*, 320, 321, 326; Natural Resources 475; Philosophy 325, 326; Political Science 361, 362, 364, 366, 384, 394; Russian 360, 370, 381, 493; Spanish 340, 341, 342, 381, 493; Theatre 329*, 351, 352, 452; Women's Studies 300*.
- e. **Latin America:** Anthropology 335, 345; Art 397*; Comparative Literature 243; English 364; Foreign Language 381*; Geography 301, 391; History 253, 254, 312*, 352, 353, 355, 381; INTL 300, 381, 391, 399; Natural Resources 479*; Spanish 353, 354, 383, 493*.
- f. **Russia and Eastern Europe:** History 329, 336, 337, 338, 339, 340, 341; INTL 300, 381, 391, 399; Political Science 362, 364, 366, 384.
- g. **Global Studies:** Anthropology 110; Economics 210, 362, 365, 367; English 319, 361, 362; Geography 340; History 373; Music 307; Natural Resources 323, 475; Peace Studies 200; Philosophy 336; Political Science 305, 374, 376, 383, 385, 387, 396; Religious Studies 302; Sociology 360, 370.
- h. **American Studies (for foreign students only):** Anthropology 339, 371; Art 390, 391, 392, 393, 397; Communication 190, 362, 363; Economics 311, 328, 345; English (American Literature) 213, 214, 280, 282, 313, 320, 329, 360, 364, 366, 382; Geography 211, 226, 373; History 211, 212, 313, 315, 316, 321, 322, 323, 324, 325, 331, 332, 335, 355, 356, 357, 358, 359, 360, 366, 369, 371, 372, 373, 374, 375, 377, 378, 379, 380, 382, 383, 384, 385, 386, 388, 389; Music 102, 305, 329; Philosophy 381; Political Science 101, 190, 201, 202, 212, 242, 250, 306, 308, 310, 314, 315, 316, 320, 330, 331, 333, 334, 341, 354, 356, 358, 383, 391, 414, 450; Religious Studies 311, 316, 321*; Sociology 102, 300, 356, 363, 368; Spanish 382; Theatre 361.
4. **Senior seminar**, 3 credits: INTL 480.

International Studies Minor

Consists of 24 credits plus foreign language requirement.

1. **Core courses**, 9 credits: History 101 or 102; Geography 110 or 113; Political Science 160 or 180.
2. **Language requirement**, 0-12 credits.
 - a. If your native language is English, you must complete two semesters of college level foreign language, or test-out, or complete one foreign language course beyond freshman level.
 - b. Foreign students, whose native language is not English, may use English to fulfill their international studies language requirement, by completing English 102 or 150 and the UWSP writing emphasis (WE) requirement.

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3. Areas of concentration, 12 credits from one of the areas of concentration listed with the major above. Six credits must be in courses numbered 300 and above.
4. Senior seminar, 3 credits: INTL 480.

Academic Standards

To graduate with a major or minor in international studies, you must have a 2.0 GPA in required courses, including transfer courses, regardless of any declaration of academic bankruptcy. See the **More Academic Information** section of this catalog for the policy on repeating courses. Courses in international studies are open to all students who meet the prerequisites.

Test-Out and Credit-by-Exam Policy

You may test-out or receive credit-by-exam for all general degree requirement (GDR) courses. If you wish to test-out or receive credit-by-exam for courses in the international studies major/minor, you must make arrangements with the appropriate department. Consult with the international studies coordinator. A comprehensive written exam based on materials covered in a course will normally be administered by the faculty member who teaches the course. The minimum required score for all such exams is a B- or its numerical equivalent. You may take an exam for credit or test-out only once.

Courses in International Studies

INTL 098. International Study. 0 cr. Maintains UWSP students in active enrollment status while engaged in a semester abroad program with another university.

INTL 300. International Study Tour. 1-3 cr. Analyze social, cultural, economic, and political conditions through on-site tours and lectures with approp study and writing. Subtitle will designate countries or regions. May repeat with different subtitle.

INTL 381. Culture and Civilization. 2-3 cr. Advanced survey within a specific country or region. Offered only through UWSP International Programs. Subtitle designates country or region. May repeat with different subtitle. Prereq: Enrollment in a UWSP international program. GDR:HU4

INTL 391. Special Topics. 1-3 cr. Study international developments informed by visits to historic locations and cultural and political centers. Subtitle will designate topic. Offered only through UWSP International Programs. May repeat with different subtitle. Prereq: Enrollment in a UWSP international program.

INTL 399. Independent Study. 1-3 cr. Individual study of an international topic or a specialized subject in an appropriate area of concentration under faculty supervision. Prereq: Jr st and cons intl coord.

INTL 480. Senior Seminar. 3 cr. Capstone experience to enhance understanding of the interrelation of cultures throughout the world. Prereq: INTL major/minor with 9 cr of core courses and at least 6 cr of concentrations completed, or cons coord.

JAPANESE

See *Foreign Languages*.

JAZZ STUDIES

See *Music*.

JOURNALISM

See *Communication*.

LAND USE PLANNING

See *Natural Resources – Human Dimensions of Natural Resource Management*.

LAW

See *Political Science*.

LEARNING DISABILITIES

See *Education*.

Learning Technologies

LTED 115. Integrating Information Tools into the Classroom. 2 cr. Integrating information system tools such as word processing, spreadsheet, database, and presentation graphics packages into the classroom. Supervised field experience. Prereq: CIS 115 or con reg. (Fall 2003 will be last time this course is offered.)

LTED 334. Techniques in Education: Learning Technologies. 3 cr. Aims, methods, techniques, planning, organization, assessment, and field experiences to integrate and teach learning technologies in schools. Prereq: Admitted to Professional Education Program; jr st, CIS 102 (Intro to Programming), 115/116, 330, 373 (Spreadshet); OR cons Math chair. (Spring 2004 will be last time this course is offered.)

LIBERAL ARTS

See *General Studies* and *College of Letters and Science*.

Library Resources

LRES 101. Effective Use of the University Library. 1 cr, pass/fail. Develop basic information methods necessary to use the University Library as an effective aid to study, research, and enjoyment.

LIBRARY SCIENCE

See *Instructional Resources* and *Learning Technologies*.

LIFE SCIENCE

See *Natural Science*.

LIMNOLOGY

See *Natural Resources-Water Resources*.

MANAGERIAL ACCOUNTING

See *Business and Economics*.

MASTER'S DEGREE

See the *Graduate* section later in this catalog.

Mathematics and Computing

(College of Letters and Science)

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Definition: Mathematics is the study of quantity, form, arrangement and magnitude. It is the study of the measurement, properties, and relationships of quantities, using numbers and symbols.

The **computer information systems (CIS)** major and minor are listed under that title earlier in this catalog.

The **learning technologies** minor is listed under that title earlier in this catalog.

The **web and digital media development (WDMD)** major is listed under that title later in this catalog.

Mathematics Placement Test

The mathematics placement test is given to all new freshmen as they enter the university. The test covers the material found in the usual four-year high school mathematics program (two years of algebra, geometry, and precalculus) and the scoring varies according to the amount of mathematics you have taken. The test results are used to place you at the appropriate level of mathematics at UW-Stevens Point. At some of these levels you will be able to choose from several courses after examining their prerequisites. If you did not take the test at the time you entered the university, you may arrange for it at the department office.

Mathematics Major

Consists of at least 37 credits:

1. Math 120, 121, 220, 222, 300. We strongly recommend that you complete 220 and 300 before you enroll in courses numbered above 300.
2. Take 4 courses from the following groups, to provide greater depth in at least one area:
 - a. Algebra: Math 330, 331.
 - b. Analysis: Math 324, 327.
 - c. Probability and statistics: Math 356, 357.
3. At least two additional courses selected from Math 305, 310, 315, 321, 323, 324, 327, 330, 331, 335, 356, 357, 360, 367, 372, 468.

Mathematics Major with Actuarial Emphasis

Consists of 42 credits.

1. Math 120, 121, 220, 222, 300, 330, 356, 357.
2. CIS 102, 210.
3. At least 6 credits from Math 310, 315, 321, 360, 367, 397, 468.
4. At least 3 credits from Math 323, 324, 327.
5. Collateral requirements: Pass at least one of the actuarial exams.
6. Recommended collateral areas: business and economics, communication, finance, insurance, writing.

Mathematics Minor

Consists of 25 credits:

1. Math 120, 121, 220, 222, 300.
2. At least 6 credits Math 305, 310, 315, 321, 323, 324, 327, 330, 331, 335, 356, 357, 360, 367, 372, 468.

Applied Mathematics Minor

Consists of at least 24 credits:

1. Math 120, 121, 220, 356, 357.
2. Complete 2 courses from Math 222, 305, 310, 315, 321, 360, 367, 468.

Mathematics Major for Teacher Certification (Secondary/Middle)

Consists of at least 44 credits:

1. Required (34 cr): Math 120, 121, 220, 222, 300, 331, 340, and Math Ed 334, 335, 340.
2. Complete 2a or 2b below (at least 4 cr):
 - a. Math 350, Math Ed 350.
 - b. Math 356, 357.
3. Complete two courses from Math 305, 310, 315, 321, 322, 324, 327, 330, 335, 360, 372.

Mathematics Minor for Elementary Education Majors

Consists of 24 credits:

1. Required: Math 345, 359, 369; Math Ed 345, 359, 369.
2. Complete either Math 355 or Math 350/Math Ed 350.
3. Complete one: Math 109, 111, or 120.
4. Required but not part of the minor: Math 228, 338 and Math Ed 228, 338.

Mathematics Minor for Teacher Certification (Secondary/Middle)

Consists of at least 31 credits:

1. Required (27 cr): Math 120, 121, 220, 300, 340, and Math Ed 334, 335, 340.
2. Complete 2a or 2b below (at least 4 cr):
 - a. Math 350, Math Ed 350.
 - b. Math 356, 357.

Academic Standards

To have a major in mathematics approved for graduation, you must have a minimum grade point average of 2.00 (2.75 to student teach) in the math courses you select to satisfy the requirements of the major. In addition, you must achieve a grade of C or better in at least 15 credits in required courses numbered 300 or above. These standards apply regardless of a declaration of academic bankruptcy. The department chair may allow exceptions on a conditional basis.

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Additional for Teacher Certification:

1. A minimum grade point average of 2.75.
2. Elementary education majors are required to take Math 228, 338, Math Ed 228, 338 and Math Ed 345.
3. **Enrollment caps** are in effect for teacher certification. Contact the Mathematics Department early for entrance requirements and application procedures. Also see information about the Professional Education Program and secondary education curriculum for teacher certification in the **Education** section of this catalog.

Test-Out and Credit-by-Exam Policy

The principal test-out procedure for mathematics is the UW System Mathematics Placement Exam. You are placed in math courses based on that exam and may place out of the mathematics requirement.

1. If you do not feel the placement test has accurately reflected your ability, you may retake the test once,
2. OR you may take the final exam for any general degree requirement (GDR) math course. If you score 70% or higher, you will be exempt from that course.
3. You may also use AP (Advanced Placement) scores to receive advanced placement and credit-by-exam. If you score a 3 or higher on the AP-Calculus AB exam, you can receive credit for Math 120. If you score a 3 or higher on the AP Calculus BC exam, you can receive credit for both Math 120 and 121.
4. If you took calculus in high school but did not take the AP exam, you may be placed directly into Math 121 at the discretion of the department chair. If you earn a grade of B or better in 121, you will receive retroactive credit for 120.

Master of Science in Teaching (Mathematics)

Is offered in cooperation with UW-Oshkosh. You can get more information from the department office.

Courses in Mathematics

Also see listing under **Mathematics Education**.

****MATH 90. Beginning Algebra.** 3 cr. Real numbers, solving linear equations and inequalities, exponents, polynomials, and rational expressions. Algebra for those with low placement test scores who need practice in fundamental math skills. Does not count toward a degree.

****IMPORTANT**** If you are placed into remedial coursework in mathematics you must restrict your coursework to a level that will allow for success. You must receive written permission from your adviser to enroll in more than 16 credits during any semester that you enroll in remedial coursework. If you want to enroll in more than 18 credits during any semester that includes remedial coursework, you must receive written permission from the dean of your college. Factors that are considered in approving credit load include your ACT score, high school class rank, overall high school record, university GPA, and demands on your time such as coursework, extracurricular activities and employment.

Entering freshmen who are placed into remedial mathematics must complete the remedial coursework before earning 30 credits toward graduation. If you are in this category and fail to complete the remedial work before earning 30 credits, you will be restricted to a maximum of 12 credits, including the remedial courses, until you meet the requirement.

MATH 100. College Algebra. 3 cr. Graphing linear equations and inequalities, exponents, radicals, quadratic equations, systems of equations; study of functions including exponentials and logarithmic functions. Prereq: 90 or suitable placement test score. GDR: MATH

MATH 105. Mathematics Applications, Appreciation, and Skills. 3 cr. Topics include probability, statistics, geometry, logic, history and appreciation of mathematics, mathematics of finance, and others. An

alternative to Math 100 to meet GDR in the BA degree. Not a substitute for Math 100 in the BS degree. Prereq: Math 90 or suitable placement test score.

MATH 109. Mathematics for the Social and Management Sciences. 4 cr. Systems of linear equations, matrices, linear programming, exponential growth and decay, mathematics of finance, differential calculus with emphasis on applications. Prereq: 100 or suitable placement score. GDR: MATH BS BM/BFA

MATH 111. Applied Calculus. 4 cr. Calculus applied to business, economics, biology, natural resources, and social science. Prereq: 100 or a suitable placement score. May not take 111 for credit after successful completion of 120. GDR: MATH BS/BFA

MATH 112. Basic Trigonometry and Applications. 2 cr. Introduction to trigonometry and applications to surveying, navigation, and indirect measurement. Not open to those who have taken 119. Math 112 will not substitute for 119 and is not preparation for 120. May not earn credit in both 112 and 119. Prereq: 100 or placement into 112.

MATH 118. Precalculus Algebra. 4 cr. Topics include concepts, graphs, and properties of functions, inverse and algebraic functions, techniques of graphing, conic sections, linear and nonlinear systems, arithmetic and geometric series, mathematical induction and the binomial theorem. Preparation for 120 if you did not place into 120. Prereq: 100 or suitable placement test score. GDR: MATH BS BM/BFA

MATH 119. Precalculus Trigonometry. 2 cr. Trigonometric functions, their basic properties and graphs; inverse trigonometric functions; identities; applications. Preparation for 120 if you did not place into 120. May not earn credit in both 112 and 119. Prereq: 100 or suitable placement test score.

MATH 120. Analytic Geometry and Calculus I. 4 cr. Analytic geometry of the plane; differentiation and integration of algebraic functions with some applications. Prereq: 118 and 119 or suitable placement score.

MATH 121. Analytic Geometry and Calculus II. 4 cr. Analytic geometry of the plane continued; differentiation and integration of transcendental functions; integration techniques; infinite series; additional applications. Prereq: 120.

MATH 209. Mathematics for Information Sciences. 4 cr. Boolean algebra, relational database theory, algorithms, combinatorics, discrete probability, recursion, graph theory, network flows and applications for information sciences. Prereq: 109 or 120.

MATH 220. Introduction to Linear Algebra and Differential Equations. 4 cr. Introduction to linear algebra; matrices, systems of linear equations, bases of vector spaces, linear transformations, eigenvalues and eigenvectors. Also introduction to ordinary differential equations; first and second order equations, linear systems of differential equations. Prereq: 121.

MATH 222. Analytic Geometry and Calculus III. 4 cr. Introduction to solid analytic geometry; differentiation of functions of several variables; multiple integrals; parametric equations and vectors; applications. Prereq: 121.

MATH 228. Fundamental Mathematical Concepts for Elementary Teachers I. 3 cr. Basic concepts and properties of sets, number systems, and functions that apply to elementary school math. Prereq: 100 or placement above 100 and con reg in Math Ed 228; and elementary ed major with cons chair of Math/Computing. *If you do not meet the prerequisite, you will not be allowed to take the course.*

MATH 300. Introduction to Higher Mathematics. 3 cr. Transition to upper division mathematics. Topics include logic, proof techniques, set theory, relations and functions; elementary properties of integers, rational numbers, and real numbers; open sets, closed sets, cardinality, limits, and continuous functions; also reading and writing formal mathematical proofs. Prereq: 121.

MATH 305. Discrete Mathematics. 3 cr. Algorithm analysis; recursion, complexity; combinatorics; recurrence relations, dynamic systems, counting techniques; graph theory: Eulerian and Hamiltonian graphs, algorithms and heuristics, planar graphs, trees, applications. Prereq: 120 or 109.

MATH 310. Operations Research I. 3 cr. Formulation and computation of linear programming; simplex method, duality, sensitivity analysis, computer solutions; integer programming; network flows with applications. Prereq: 220 or 209.

MATH 315. Operations Research II. 3 cr. Interior point methods for linear programming; nonlinear optimization; dynamic programming; introduction to stochastic models with use of related computer software. Prereq: 222 and 310.

MATH 321. Intermediate Differential Equations. 3 cr. Laplace transforms, series solutions, partial differential equations, orthogonal sets, and Fourier series. May include numerical methods, systems of differential equations, autonomous systems, Lyapunov functions, bifurcation theory, Poincare maps, chaos, stability, qualitative behavior, calculus of variations, applications to mechanics. Prereq: 220 and 222.

MATH 322. Vector Analysis. 3 cr. Vector algebra; vector calculus; gradient, divergence, and curl; divergence theorem; Stokes' theorem; line and surface integrals; introduction to tensor analysis; applications. Prereq 222.

MATH 323. Foundations of Analysis. 3 cr. Elementary topological properties of the real line and the Euclidean plane; connectedness, compactness, continuous and uniformly continuous functions. Prereq:300.

MATH 324. Complex Variables. 3 cr. Complex numbers, functions of a complex variable; power series; elementary functions; conformal and bilinear transformation; integral theorems; Taylor/Laurent expansions; theory of residues; applications. Prereq: 222 and 300 or cons instr.

MATH 327. Advanced Calculus. 3 cr. Theory of differential and integral calculus: limits and convergence, continuity, derivatives, integrals; Inverse and Implicit Function Theorems; Taylor and Fourier series; transforms. Prereq: 220, 222 and 300.

MATH 328. Mathematics for Early Childhood Education. 4 cr. Extended topics from 228 applied to early childhood education. Informal geometry, measurement, and statistics. Does not count toward math major or minor. Prereq: 228 and con reg in Math Ed 328.

MATH 330. Intermediate Linear Algebra. 3 cr. Abstract finite and infinite dimensional vector and inner product spaces; subspaces: spanning and linear independence, bases and dimension; linear transformations: eigenvalues and eigenvectors, diagonalization, isomorphism, canonical forms; selected applications. Prereq: 220, 300.

MATH 331. Abstract Algebra. 3 cr. Groups, rings, fields, number systems, Euclidean domains, and polynomials. Prereq: 220 and 300.

MATH 335. Number Theory. 3 cr. Primes, composites, and divisibility; congruences and residue classes; number-theoretic functions; Diophantine equations. Prereq: 300 or cons instr.

MATH 338. Fundamental Mathematical Concepts for Elementary Teachers II. 3 cr. Topics from geometry, measurement, algebra, and logic with emphasis on problem solving. Prereq: 228 and con reg in Math Ed 338. GDR:MATH BS BM/BFA

MATH 340. College Geometry. 3 cr. Foundations of geometry; survey of Euclidean geometry from various developmental approaches; introduction to non-Euclidean geometries. Does not count toward math major or minor. Prereq: 300 and con reg in Math Ed 340/540.

MATH 345. Fundamental Mathematical Concepts for Elementary Teachers III. 3 cr. Topics from probability, statistics, calculus, and rational and real numbers with an emphasis on problem solving. Prereq: Math 338 and con reg in Math Ed 345.

MATH 348. Seminar to Prepare for Actuarial Exam 100. 2 cr. Study and discuss concepts and problems from calculus and linear algebra found on recent actuarial examinations. Prereq: 220 and 222.

MATH 350/550. Probability and Statistics with Teaching Methods. 3 cr. Discrete and continuous probability distributions; random variables; mathematical expectation; statistical estimation and inference; hypothesis testing; regression. Applications and teaching methods for probability and statistics in high school classroom. May not earn credit in both 356 and 350; 350 is not a prereq for 357. Does not count toward math major/minor. Prereq: 121.

MATH 355. Elementary Statistical Methods. 4 cr. Fundamental concepts and techniques that underlie applications to various disciplines, including descriptive statistics; averages; dispersion; random sampling; binomial, normal, Student T, Chi-square, and F distributions; estimation and tests of hypothesis; linear regression and correlation; laboratory emphasis on sampling and applications. Does not count toward math major/minor, or major for teacher certification. Prereq: 100 or suitable placement test score. GDR:MATH BS BM/BFA

MATH 356/556. Probability and Statistics I. 3 cr. Probability from a set-theoretic viewpoint; random variables and mathematical expectation; discrete and continuous probability distributions; functions of random variables and moment-generating functions. Prereq: 121.

MATH 357/557. Probability and Statistics II. 3 cr. Statistical inference: estimation and tests of hypotheses; linear regression and correlations; multiple linear regression. Prereq: 356.

MATH 358. Seminar to Prepare for Actuarial Exam 110. 2 cr. Study and discuss concepts and problems from statistics found on recent actuarial examinations. Prereq: 357 or con reg in 357.

MATH 359. Mathematics for Middle School I. 2 cr. Extended topics from algebra, geometry, trigonometry, analytic geometry, measurement, probability, and statistics. Problem solving and computer applications. Prereq: 338 and con reg in Math Ed 359.

MATH 360. Numerical Analysis. 3 cr. Differences and interpolation; function approximation; solution of equation; linear systems and matrices; numerical solutions of ordinary differential equations; least square approximation; quadrature. Prereq: 220 and 222.

MATH 367. Mathematics of Decision and Choice. 3 cr. Quantitative approaches to rational decision making: game theory, decision analysis with uncertainty and risk, management science; model formulations and solution using computer software. Prereq: 121 or 109.

MATH 369. Mathematics for Middle School II. 2 cr. Topics from sets, logic, mathematical reasoning and proof, mathematical structures, discrete mathematics, topology, and history of mathematics. Prereq: 338 and con reg in Math Ed 369.

MATH 372. Topology. 3 cr. Topics in metric and point-set topology: homeomorphisms and isometries, connectedness, compactness, and separation axioms; low-dimensional Euclidean topology: curves, surfaces, knots, manifolds. Prereq: 220 and 300.

MATH 380. Seminar on History of Mathematics. 2 cr. The historical development of selected mathematical ideas. Prereq: 220.

MATH 390/590. Special Topics in Mathematics. 1-3 cr. Subtitle will designate topic and number of credits. Prereq: cons chair.

MATH 395. Seminar. 1 cr. Present and discuss selected readings in mathematical subjects. May repeat for 3 cr max with different subtitles. Prereq: Cons instr.

MATH 397. Internship in Mathematics. 2-6 cr. Participate in supervised training work program in cooperating agency or business arranged by faculty with cons chair. Credits set by adviser and chair following dept guidelines. May repeat for 6 cr max. Prereq: Jr st and cons instr.

MATH 455/655. Advanced Statistical Methods. 4 cr. Advanced concepts and techniques that underlie applications to various disciplines including: simple and multiple regression, analysis of variance, and nonparametric methods; use of statistical package(s) such as SAS or SPSS-X. Does not count toward math major/minor or major for teacher certification. Prereq: 355 or equiv statistics course.

MATH 468. Applied Statistics. 3 cr. Analysis of variance, simple regression and correlation, multiple regression and correlation, time series; model building and forecasting. Prereq: 356 and 357.

MATH 499. Independent Study. Upperclass math majors may arrange for independent study with cons chair. Credit based on scope of project. May apply 3 cr to major.

Mathematics Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

- 213 Introduction to Linear Algebra, 4 cr, (01-03)
- 320/520 Differential Equations, 3 cr, (01-03)
- 341/541 Modern Geometry, 3 cr, (91-93)
- 342/542 Projective Geometry, 3 cr, (91-93)
- 346 Mathematics for Elementary School Teacher, 1 cr.
- 347/547 Geometry for Elem and Junior High Teachers, 3 cr, (91-93)
- 368 Contemporary Math for Elementary Teachers, 3 cr, (89-91)
- 385/585 Historical Topics for the Elem School Teacher, 3 cr, (85-87)
- 395 Seminar, 1 cr, (01-03)
- 522 Vector Analysis, 3 cr, (91-93)
- 523 Foundations of Analysis, 3 cr, (01-03)
- 524 Complex Variables, 3 cr, (01-03)
- 527 Advanced Calculus, 3 cr, (01-03)
- 530 Intermediate Linear Algebra, 3 cr, (01-03)
- 531 Abstract Algebra, 3 cr, (01-03)
- 535 Number Theory, 3 cr, (01-03)
- 540 College Geometry, 3 cr, (01-03)
- 559 Math for Middle School I, 2 cr, (01-03)
- 560 Numerical Analysis, 3 cr, (01-03)
- 569 Math for Middle School II, 2 cr, (01-03)
- 572 Topology, 3 cr, (91-93)

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Courses in Mathematics Education

M ED 228. Teaching Elementary School Mathematics. 1 cr. Principles, goals, methods, study of curricular content and assessment techniques, includes field experience. Prereq: Con reg in Math 228.

M ED 229. Teaching Elementary School Mathematics I. 1 cr. Principles, goals, methods, and techniques. Only for transfer students who did not take Math 228 at UWSP. Prereq: 4 cr of math for elementary teachers equivalent to Math 228.

M ED 328. Teaching Early Childhood Mathematics. 1 cr. Principles, goals, methods, and techniques of early childhood mathematics through grade 3. Prereq: Con reg in Math 328.

M ED 334/534. Technology Tools for Mathematics Teachers. 4 cr. Techniques, research, and curriculum planning related to current technology within secondary and middle school math. Prereq: Math 109, 111, or 120 or cons instr.

M ED 335. Techniques In Secondary Education. 4 cr. Aims, methods, materials, techniques, planning, organization, assessment, and field experience. Same as Educ 335. Prereq: Jr st and admission to Professional Ed Prog.

M ED 338. Teaching Elementary School Mathematics II. 1 cr. Principles, goals, methods, and study of curricular content and assessment techniques; includes field experience. Prereq: Con reg in Math 338. GDR:MATH BS BM/BFA

M ED 339. Teaching Elementary School Mathematics II. 1 cr. Principles, goals, methods, and techniques. Only for transfer students who did not take Math 338 at UWSP. Prereq: 4 cr of math for elementary teachers equivalent to Math 338.

M ED 340/540. Teaching Secondary Geometry. 1 cr. Techniques, research, curricular planning, and evaluation issues related to teaching geometry at the secondary level. Prereq: 300 and con reg in Math 340/540.

M ED 345. Teaching Elementary School Mathematics III. 1 cr. Principles, goals, methods, study of curricular content and assessment techniques at appropriate levels; includes field experience. Prereq: Math 338 and con reg in Math 345.

M ED 350/550. Teaching Probability and Statistics. 1 cr. Techniques, research, and evaluation issues related to teaching probability and statistics at the secondary level. Prereq: Math 121 and con reg in Math 350.

M ED 359. Teaching Middle School Mathematics I. 2 cr. Techniques, research, curriculum planning, teaching of problem solving. Prereq: Math 338 and con reg in Math 359.

M ED 369. Teaching Middle School Mathematics II. 2 cr. Techniques, research, curriculum planning, and evaluation issues related to middle school math. Prereq: Math 338 and con reg in Math 369.

M ED 390/590. Special Topics. 1-3 cr. Subtitle will designate topic and number of credits. Prereq: Cons chair.

M ED 398. Student Teaching In Mathematics. 4-16 cr; pass/fail. Observation and teaching in the secondary school classroom under the guidance of cooperating teachers and university faculty. Prereq: Completion of mathematics DPI certified major/minor and DPI education requirements.

M ED 399. Special Work. 1-3 cr. Upperclass students may arrange for independent study with cons chair. Credit based on scope of project.

M ED 400. Seminar on Teaching for Secondary Student Teachers. 1 cr; pass/fail. Structural group discussions on aspects of teaching that emerge during student teaching experiences. Prereq: Con reg in Math Ed 398.

M ED 790. Special Topics. 1-4 cr. Subtitle will designate topic and number of credits. Prereq: Cons chair.

Mathematics Education Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

239 Teaching Elementary School Math, 1 cr.

349 Teaching Elementary School Math, 1 cr.

375/575 Laboratory Approach to Mathematics, 3 cr, (01-03)

559 Teaching Middle School Math I, 2 cr.

569 Teaching Middle School Math II, 2 cr.

MEDIA AND WEB TECHNOLOGY

See **Web and Digital Media Development** and **Art and Design**.

MEDICAL TECHNOLOGY

See **Clinical Laboratory Science**.

MICROBIOLOGY

See **Biology**

MIDDLE SCHOOL CERTIFICATION

See **Education**.

Military Science (College of Professional Studies)

Room 204, Student Services Center

Phone: 715-346-3821

E-mail: rotc@uwsp.edu

Web: www.uwsp.edu/rotc

Faculty: P Beyer, N DeChalk, D Ferrel, R Kehoe, R Stasik.

Definition: The Department of Military Science offers 26 credits in courses which may qualify you for a commission as a second lieutenant in the Regular Army, US Army Reserve, or Army National Guard. The Reserve Officers' Training Corps (ROTC) is an elective program that enhances your education by providing unique management and leadership instruction coupled with practical experience. The program is designed to develop leadership and management skills basic to success as a leader in a civilian career or in the US Army. ROTC provides you with a valuable opportunity to build for the future by enabling you to earn a degree and an officer commission at the same time.

The ROTC program is based on a four-year curriculum integrated with a normal baccalaureate degree program. The program is divided into a two-year basic course and two-year advanced course. You incur no military service obligation while enrolled in the basic course. Flexibility is provided to you through a number of options and alternatives designed to tailor the program requirements to your situation and time remaining at the university. These alternatives recognize previous military-related experience and allow for exceptions to the normal four-year curriculum. Both male and female students who have at least two years of undergraduate and/or graduate study remaining may qualify for entry into the advanced course program.

Military science courses are open to all UW-Stevens Point students. Any student can earn a minor in military science by completing the required curriculum.

You may apply for three- or two-year scholarships each September. Winners are announced second semester and are effective that fall.

A detailed Reserve Officers' Training Corps Program orientation and answers to any questions are available upon request.

Military Science Minor

Consists of a minimum of 29 credits:

1. Complete Military Science 101*, 102*, 211*, 214*, 301, 302, 451, and 452.
2. Complete one course in military history from History 318, 325, 374.

*Veterans and Reserve Component personnel who qualify for and complete MIL 301 with a grade of C or better receive 10 academic credits (for MIL 101, 102, 211 and 214). If you complete the 6-week Leadership Training Course, you also receive 10 credits. Direct specific questions on requirements to the department chair.

Courses in Military Science

MIL 101. Introduction to Problem Solving, Decision Making, and Leadership I. 2 cr. Introduction to "life skills" of problem solving, decision making, and leadership. Help students become leaders on campus and effective leaders and managers in the long term, whether in military or civilian life. Topics include ethics, communication, physical fitness, and introduction to officership in the US Army. Seminar format with discussion and practical exercises. Open to all students. 1 hr lec, 2 hr lab per wk.

MIL 102. Introduction to Problem Solving, Decision Making, and Leadership II. 2 cr. Continuation of 101. Includes problem solving, group dynamics, leadership, follower-ship, and goal setting. 1 hr lec, 2 hrs lab per wk. Open to all students.

MIL 211. Leadership Principles. 3 cr. Theoretical and practical instruction in leadership including written and oral communication, effective listening, assertiveness, personality, adult development, motivation, and organizational culture and change. Conclude with leadership and problem-solving case study. 2 hrs lec, 2 hrs lab per wk. Prereq: 101, 102, or cons instr.

MIL 214. Introduction to Military Leadership. 3 cr. Examine roots of national and Army values. Apply principles of ethical decision making. Examine legal and historical foundations, duties, and functions of officers. Analyze the role officers played in the transition of the Army from Vietnam to the 21st century. Introduce basic US Army tactical principles. 2 hrs lec, 2 hrs lab per wk. Prereq: 211 or cons chair.

MIL 301. Fundamentals of Military Leadership and Training I. 4 cr. Principles of war, decision-making processes, planning models, and risk assessment. Advanced leadership instruction on motivational theory, the role and actions of leaders, and organizational communication. 3 hrs lec, 2 hrs lab per wk. Prereq: 101, 102, 211, 214, advanced placement, or cons instr.

MIL 302. Fundamentals of Military Leadership and Training II. 4 cr. Individual leader development, planning and execution of small unit operations, individual and team development; the Army as a career choice. 3 hrs lec, 2 hrs lab per wk. Prereq: 101, 102, 211, 214, 301, advanced placement, or cons instr.

MIL 399. Special Work in Contemporary Military Leadership. 1-3 cr. Advanced military science students may participate in an intensive readings program examining contemporary military leadership and combat motivation. Prereq: Cons chair.

MIL 451. US Army Training, Ethics and Counseling. 4 cr. Advanced instruction on functions of the US Army officer focusing on skills required for meeting management, subordinate career counseling, Army training management, junior officer and battlefield ethics. 3 hrs lec, 2 hrs lab per wk. Prereq: 302 or cons chair.

MIL 452. US Army Operations, Logistics, and Administration. 4 cr. Study legal aspects of US Army decision making and leadership. Army tactical and strategic organizations, and administrative and logistical management. 3 hrs lec, 2 hrs lab per wk. Prereq: 451 or cons chair.

Military Science Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

103	Leadership Laboratory, 1 cr, (95-97)
104	Leadership Laboratory, 1 cr, (95-97)
215	Leadership Laboratory, 1 cr, (95-97)
216	Leadership Laboratory, 1 cr, (95-97)

NOTE: In conjunction with the School of Health, Exercise Science and Athletics, the Department of Military Science offers the following courses, with credit counting toward fulfillment of wellness general degree requirements:

WLNS 153/154. Advanced Physical Fitness. 1 cr. Physical training program designed to increase knowledge of some techniques available to improve muscular strength and endurance and cardio-respiratory capacity. Strength exercises and aerobic exercise to include running, and a variety of individual and team sports.

WLNS 177/187. Fall Leadership Laboratory. 1 cr. Off-campus weekend orientation and participation in outdoor physical skills preceded by on-campus introductory class and safety orientation. Activities include rappelling, basic military skills, and a leader's reaction course. Prereq: Con reg in 101/211.

MINORITY AND ETHNIC STUDIES

See *History* and *Sociology* and *Native American Studies*.

Museum Techniques (College of Letters and Science)

Ed Marks, Curator of Education
Room 106 Learning Resources Center
Phone: 715-346-2858
E-mail: museum@uwsp.edu
Web: www.uwsp.edu/museum

A minor in *museum techniques* is interdepartmental and is administered by the Department of Biology. It is useful in various disciplines.

Museum Techniques Minor

Consists of a minimum of 22 credits:

1. Biology 322.
2. Art 101 or 102, and either Art 103 or 215.
3. Either a or b:
 - a. Anthropology 250, 393.
 - b. One or more of these: Biology 305, 342, 360, 372, 374, 376, 377, 378.
4. The remaining courses to be selected from; Art 215, Biology 305, 379, 388; Communication 330; Computer Information Systems 102; Geology 200; Natural Resources 368.
5. History, art, geology, and geography majors may negotiate credit for museum-oriented courses (e.g., Native Americans, Greek culture). All relevant semester abroad courses are appropriate for the museum techniques minor. Contact the International Programs Office for more information.

Music

(College of Fine Arts & Communication)

Robert Kase, Chair
Room B120, College of Fine Arts Building
Phone: 715-346-3107
E-mail: music@uwsp.edu
Web: www.uwsp.edu/music

Faculty: S Bjella, J Bond, M Buchman, S Berk, P Doeblor, D Hastings, P Holland, R Kase, M Keller, R Korb, L Leviton, B Martz, D Martz, T McComb, G McKenna, P Miles, R Peavler, M Roseman, A Rosen, R Rosen, C Rotaru, S Teeple, L Thayer, C Young.

Professional Opportunities in Music

Our music programs prepare students for professional careers in a variety of areas including teaching, performance, composition, music business, music technology, music management, and other music-related occupations. The Bachelor of Music degree program offers four areas of emphasis: applied music, jazz studies, music education, and music literature. The Bachelor of Arts degree program offers a nondisciplinary music degree that incorporates studies in other disciplines for careers in many music-related professions.

NOTES:

1. Admission to the Department of Music as an undergraduate music major or minor is by audition. You must complete the music theory diagnostic test, and if you wish to major in music, you must be evaluated by piano faculty for placement.
2. Special music scholarships are available to high school seniors with outstanding talent in musical performance. These scholarships are awarded each

spring on the basis of special auditions held before members of the music faculty. Contact the Music Department for dates, times, and other details.

3. Every music major must enroll, participate, and receive a passing grade in a major ensemble every semester except the student teaching semester.
4. String music education majors and string applied majors need four semesters of chamber ensemble.
5. See the Music Department "Silent Adviser" for recital attendance requirements.
6. The following organizations are open to all students: Pointer Pep Bands, Concert Choir or Choral Union, Wind Ensemble, Concert or University Band, Instrumental Jazz Ensemble, University Orchestra, and numerous small ensembles.

Bachelor of Arts Degree in Music

Consists of 42-48 credits.

1. Theory, 14 credits: Music 110, 111, 112, 113, 210, 212, 379. Placement exam required. If you have insufficient background, take Music 109 as prereq.
2. Applied music, 8-14 credits.
 - a. Major applied instrument, 8 credits. You must reach proficiency Level IV on your major instrument before graduation.
 - b. Minor applied instrument, 0-6 credits. When piano is not your major applied instrument, take 6 credits of piano or reach proficiency Level III.
3. Major ensemble, 8 credits.
4. Music literature, 8 credits: Music 220, 221, 320, 321.
5. Music electives, 4 credits.
6. To graduate with this "liberal arts" music major, you must also complete a minor in an area other than music. We encourage you develop a plan for this minor with your adviser.
7. According to the requirements of the National Association of Schools of Music, if you are pursuing the Bachelor of Arts degree in music, you must complete at least 66 nonmusic credits.

Bachelor of Music - Applied Music Option

1. **Piano.** Admitted by audition only. Your performance proficiency will be reviewed at the end of your freshman year for permission to continue. You must perform a half recital in your junior year and a full recital in your senior year. You need proficiency Level VII in piano for your senior recital and graduation.
 - a. Applied music, 28 credits: 160, 4 credits; 260, 360, and 460, 24 credits.
 - b. Theory, 19 credits: 110, 111, 112, 113, 210, 212, 379; and 5 credits from 315, 317, 394 or 395, 410, 479. Placement exam required. If insufficient background, Music 109 is prereq.
 - c. Music literature and history, 14 credits: 220, 221, 320, 321, 420, 421.
 - d. Piano pedagogy, 2 credits: 491.
 - e. Required ensemble: a combined total of 16 credits from 328 and 429 (at least 2 cr from each course). Instructor and coordinator determine eligibility for accompanying. (See NOTE, above.)
2. **Voice.** Admitted by audition only. Your performance proficiency will be reviewed at the end of your freshman year for permission to continue. By the end of the sophomore year you must achieve proficiency Level III in piano and IV in voice. You must perform a half recital in your junior year and a full recital in your senior year. You need proficiency Level VII in voice for

presentation of your senior recital and graduation. For graduation you also need proficiency Level III in piano.

- a. Applied music, 28 credits: 162, 4 credits; 262, 362, and 462, 24 credits.
 - b. Theory, 20 credits: 110, 111, 112, 113, 210, 212, 317, 379; and 4 credits from 394, 410, 479. Placement exam required. If insufficient background, Music 109 is prereq.
 - c. Music literature and history, 14 credits: 220, 221, 320, 321, 323, 422.
 - d. Vocal pedagogy, 2 credits: 492.
 - e. Required vocal ensemble, 16 credits. (See NOTE, above.)
 - f. Opera Workshop, 2 credits: 390.
3. **String Instrument.** Admitted by audition only. You must reach proficiency Level III in piano and VII in your major instrument, and give a senior recital.
 - a. Applied music, 28 credits: 163-166, 4 credits; 263-266, 363-366, and 463-466, 24 credits.
 - b. Theory, 23 credits: 110, 111, 112, 113, 210, 212, 315, 317, 379, and 5 credits from 395, 410, 479. Placement exam required. If insufficient background, Music 109 is prereq.
 - c. Music literature and history, 11 credits: 220, 221, 320, 321, and 426 or 427.
 - d. String pedagogy, 2 credits: 496.
 - e. Required ensemble, 16 credits including 131, 231, 342. (See NOTE, above.)
 4. **Wind Instrument.** Admitted by audition only. Your performance proficiency will be reviewed at the end of your freshman year for permission to continue. By the end of your sophomore year you must achieve proficiency Level III in piano and IV in the appropriate instrument. You must present a half recital in your junior year and a full recital in your senior year. You must reach proficiency Level VII (and Level III in piano) for the recital and for graduation.
 - a. Applied music, 28 credits: 167-176, 4 credits; 267-276, 367-376, and 467-476, 24 credits.
 - b. Theory, 23 credits: 110, 111, 112, 113, 210, 212, 315, 317, 379; and 5 credits from 395, 410, 479. Placement exam required. If insufficient background, Music 109 is prereq.
 - c. Music literature and history, 11 credits: 220, 221, 320, 321, and 426 or 427.
 - d. Brass or woodwind pedagogy, 2 credits: 493 or 494.
 - e. Required ensemble, 16 credits. (See NOTE, above.)
 5. **Percussion.** Admitted by audition only. Your performance proficiency will be reviewed at the end of your freshman year for permission to continue. By the end of your sophomore year you must achieve proficiency Level III in piano and IV in the appropriate instrument. You must present a half recital in your junior year and a full recital in your senior year. You need proficiency Level VII for the recital and for graduation.
 - a. Applied music, 28 credits: 177, 4 credits; 277, 377, and 477, (24 credits).
 - b. Theory, 23 credits: 110, 111, 112, 113, 210, 212, 315, 317, 379, and 5 credits from 395, 410, 479. Placement exam required. If insufficient background, Music 109 is prereq.
 - c. Music literature and history, 11 credits: 220, 221, 320, 321, and 426 or 427.

- d. Percussion pedagogy, 2 credits: 495.
- e. Required ensemble, 16 credits. (See NOTE, above.)

Bachelor of Music–Jazz Studies Option

1. Theory, 18 credits: 110, 111, 112, 113, 210, 212, 291, 317, 379.
2. Creative techniques, 9 credits: 192, 292, 217; WDMD 100.
3. History and literature, 7 credits: 220, 305 and 321; and 2 credits from 221, 320.
4. Senior Seminar, 2 credits: 418.
5. ONE of the following emphases:
 - a. **Performance Emphasis:** Admitted by audition only. You need proficiency Level III on piano if it is not your major instrument. Woodwind majors must demonstrate proficiency on two secondary instruments equivalent to MUS 167, 169 and/or 171. All performance majors must present a junior half recital and a senior recital.
 - 1) Applied music, 28 credits: 4 credits from 160, 162, 166-177, 181; 4 credits from 260, 262, 266-277, 281; 2 credits from 360, 362, 366-377, 381; 16 credits from 383, 483; 2 credits of 392.
 - 2) Required ensemble, 22 credits: 8 credits from 341, 342, 343; enroll in 345 each semester; 6 credits from 123, 223.
 - b. **Composition/Arranging Emphasis:** You need proficiency Level IV on the piano if it is not your major instrument. All composition majors must present a junior half recital and a senior recital.
 - 1) Theory electives, 7 credits: 315, 394/395, 410.
 - 2) Composition/arranging, 8 credits from 384, 479, or 484.
 - 3) Applied music, 10 credits: 4 credits from 160-181; 4 credits from 260-281; 2 credits from 360-381.
 - 4) Required ensemble, 18 credits: 8 credits from 341, 342, 343; 4 credits from 123, 223; enroll in 345 each semester.

Bachelor of Music - Music Education Option

There are three majors in music education: (1) instrumental K-12; (2) choral 7-12; and (3) general music K-12. When you major in one area, you can complete "add-on" certification requirements in the other two. Add-on certification is also available for music education majors in exceptional education: music education.

In addition, noncertifiable areas of emphasis are available in jazz ed and Suzuki talent ed. These special areas of emphasis complement the music education tracks.

Proficiency Levels: You must earn proficiency Level V on your major instrument. You need piano proficiency Level III if you are an instrumental major and Level IV if you are a choral or general music major. If piano is the major instrument, choral and general music majors must reach Level IV in voice.

Teacher Certification Note: Enrollment caps are in effect for those seeking teacher certification. Please contact the Music Department early for entrance requirements and application procedures. Also see the information about the Professional Education Program and the elementary and secondary education curricula for teacher certification in

the **Education** section of this catalog. You must complete all requirements before you begin your student teaching/internship semester.

1. **Instrumental (K-12):**
 - a. Education, 10-11 credits: 205, 351, 381, 386. You also need History 211 and 212; Political Science 201; one biological science and one physical science course. You must have a 2.75 GPA to student teach.
 - b. Music Ed, 21 credits: 201, 324, 326, 398.
 - c. Music, 61 credits (string music ed, 62 credits):
 - 1) Theory, 14 credits: 110, 111, 112, 113, 210, 212, 379. Placement exam required. If insufficient background, Music 109 is prereq.
 - 2) Orchestration, 2 credits: 315.
 - 3) Applied music, 10 credits: band or orchestra instrument or piano to Level V.
 - 4) Applied music (minor): piano to Level III or a band or orchestra instrument to Level IV.
 - 5) Music literature, 8 credits: 220, 221, 320, 321.
 - 6) Class applied, 8 credits: 152, 154, 155, 156, 157. (Delete the applied course in your major area; string majors must take 153 with 152 as a prereq.)
 - 7) Music 150 (Class voice for instrumentalists), 1 credit.
 - 8) Conducting, 4 credits: 317, 395.
 - 9) Major ensemble required every semester enrolled. (See NOTE above.)
2. **Choral (7-12):**
 - a. Education, 10-11 credits: 205, 351, 381, 386. You also need History 211 and 212; Political Science 201; one biological science and one physical science course. You must have a 2.75 GPA to student teach.
 - b. Music Ed, 19 credits: 201, 325, 398.
 - c. Music, 62 credits:
 - 1) Theory, 14 credits: 110, 111, 112, 113, 210, 212, 379. Placement exam required. If insufficient background, Music 109 is prereq.
 - 2) Vocal pedagogy, 2 credits: 492.
 - 3) Applied music (major), 10 credits: Voice or piano (Level V).
 - 4) Applied music (minor): Voice or piano (Level IV).
 - 5) Music literature, 10 credits: 220, 221, 320, 321, 322.
 - 6) Conducting, 4 credits: 317, 394.
 - 7) Major ensemble: 341 required every semester enrolled. (See NOTE above.)
 - 8) Additional ensemble, 2 credits: 130 and 390 (1 credit each).
3. **General Music (K-12).**
 - a. Education, 10-11 credits: 205, 351, 381, 386. You also need History 211 and 212; Political Science 201; one biological science and one physical science course. You must have a 2.75 GPA to student teach.
 - b. Music Ed, 21 credits: 201, 323, 382, 398.
 - c. Music, 57 credits:
 - 1) Theory, 14 credits: 110, 111, 112, 113, 210, 212, 379. Placement exam required. If insufficient background, Music 109 is prereq.
 - 2) Applied music (major), 10 credits: Voice or piano (Level V).
 - 3) Applied music (minor): Voice or piano (Level IV)

- 4) Music literature, 11 credits: 220, 221, 320, 321, and choice of 304, 305, or 329.
 - 5) Conducting, 2 credits: 317.
 - 6) Major ensemble: 341 required every semester enrolled. (See NOTE above.)
4. **Add-on certification areas.** We recommend that voice or piano majors complete both choral (7-12) and general music (K-12) tracks. If you are an instrumental major, you may also wish to expand your certification areas. Consult your adviser.
- a. **Instrumental (K-12)** certification for choral or general majors:
 - 1) Major applied band or orchestra instrument to Level IV.
 - 2) Class applied instruments, 10 cr: 152, 153, 154, 155, 156, 157. (Delete the applied course in your major area. String majors may substitute Music 495, Music Ed 384 or 385 for 152 or 153.)
 - 3) Music education, 4 cr: 324, 326. Advanced instrumental conducting, 2 cr: 395. Major ensemble, 8 cr: 342 or 343.
 - 4) Student teaching, 5 cr min: Music Ed 398.
 - b. **Choral (7-12)** certification for instrumental or general majors:
 - 1) Voice applied to Level IV.
 - 2) Piano applied to Level IV.
 - 3) Choir, 8 cr: 341.
 - 4) Additional choral ensemble, 2 cr: 344, or 130 and 390.
 - 5) Choral conducting, 2 cr: 394.
 - 6) Vocal pedagogy, 2 cr: 492.
 - 7) Student teaching, 5 cr min: Music Ed 398.
 - c. **General music (K-12)** certification for instrumental or choral majors:
 - 1) Voice applied to Level III.
 - 2) Piano applied to Level IV.
 - 3) Choir, 6 cr: 341.
 - 4) Elementary methods, 2 cr: Music Ed 323.
 - 5) Secondary methods, 2 cr: Music Ed 382.
 - 6) Additional music history, 3 cr: 304 or 305 or 329.
 - 7) Student teaching, 5 cr min: Music Ed 398.
 - d. **Exceptional education: music education (#861):** for music education majors only.
 - 1) Student teaching: Music Ed 390, 2 cr; Music Ed 398, 4 cr with exceptional children).
 - 2) Education, 6 cr: EDUC 351, 354.
5. **Areas of Emphasis.** Special interest areas that do NOT lead to certification.
- a. **Jazz education**, instrumental or vocal, 15 credits: Music 123 or 130; 192, 217, 304, 305; 344 or 345. Music Ed 427.
 - b. **Suzuki talent education**, 9 credits: Music Ed 384, 385, 386, 426.
4. Required ensemble, 16 credits. (See NOTE, above.)
 5. Music literature. 33 credits:
 - a. Required courses, 21 credits: 220, 221, 320, 321, 327, 428 (each 2 cr), 326, 329, 427 (each 3 cr).
 - b. Electives, 12 credits: Choice of 301, 304, 305, 307, 308, 309, 322, 323, 420, 421, 422, 424, 426 (each 3 cr).

Music Minor

Consists of 24 credits:

1. Theory, 8 credits: 110, 111, 112, 113. Placement exam required. If insufficient background, Music 109 is prereq.
2. Applied lessons, 4 credits: 160-181 (2 credits each semester).
3. Major ensemble, 4 credits: 140, 341, 342, 343, 344, or 345 (2 credits each semester).
4. Music electives, 8 credits, selected from at least two of the following groups: (Music 100, 102, 109; Music Ed 201, 381 do not count toward music minor.)
 - a. Theory/composition courses.
 - b. Conducting courses.
 - c. Music history and literature courses.
 - d. Music education courses.
 - e. Small ensembles or major ensembles.
 - f. Jazz studies: performance, history, or analysis.
 - g. Private applied or class applied.
5. Recital attendance requirement, no credit. See the Music Department student handbook.

If you are interested in a music minor, please contact the Music Department and consult with a music adviser regarding your musical objectives, music electives, and the recital attendance requirement.

Academic Standards

1. Permission to register, placement, and exceptions to the requirements are subject to the approval of the instructor and the chair.
2. Meet all general degree requirements for bachelor of music degree OR bachelor of arts degree. Refer to the **General Degree Requirements** section of this catalog.
3. To graduate with a major in music you must have a minimum 2.0 cumulative grade point average (2.75 to student teach) in all required major courses, including transfer courses, regardless of any declaration of academic bankruptcy. You may repeat courses in the major if you follow the course repeat policy found in the **More Academic Information** section of this catalog.
4. Courses in music are open to all students who meet the prerequisites.

Test-Out, Credit-by-Exam, and Music Placement

If you are seeking advanced placement in music general degree requirement courses by testing out of a course or by gaining credit through exam, see the coordinator of the specific area in which the course is offered.

If you are from a UW College, while not required, we strongly encourage you to take the placement exams in musicianship and music history to determine the proper course you should take in those areas. If you are transferring from institutions outside the UW System, you are required to take musicianship and music history exams.

We require all music education students to meet with the coordinator of music education before registering for upper level music education courses.

Bachelor of Music— Music Literature Option

1. Theory, 14 credits: 110, 111, 112, 113, 210, 212, 379. Placement exam required. If insufficient background, Music 109 is prereq.
2. Theory electives, 4 credits from 315, 317, 394/395, 410, 479.
3. Applied music (major), 12 credits: You must reach proficiency of Level V on your major instrument before graduation. You need proficiency Level III on piano if it is not your major instrument.

Courses in Music

Also see *Music Education* (next section).

MUS 100. Appreciation and History of Music. 3 cr. Development of music, stressing the elements of music understanding and intelligent listening; form and design in composition. Does not count toward music major/minor, or bachelor's degrees in music. GDR:HU1

MUS 101. Appreciation of Music in Performance. 3 cr. Music appreciation; art of listening to and critiquing live music performances. Class lectures, in-class demonstrations/performance, required attendance at public concerts. Does not count toward music major/minor.

MUS 102. Popular Music in America. 1-3 cr. Music of America's people, past and present: the great jazz and folk movements, Broadway musical theatre, film music; recording, publishing, and broadcasting. Does not count toward music major/minor, or bachelor's degree in music. Subtitle will designate area. May repeat for credit with different subtitle.

MUS 103. Music in Film. 3 cr. Study music in film from silent era to present. Trace evolution of film music from honky-tonk piano accompaniment of silent film through classically inspired music of '30s and '40s to the present; might include pop, electronic, and Third World music. How music enhances film and molds viewers perception. Does not count toward music major/minor. GDR:HU1

MUS 105(MNS). Survey of Jazz History. 3 cr. History and literature of jazz from beginnings to present. Sociological impact of the music and musicians responsible for creating this American art form. Does not count toward music major/minor. GDR:HU1

MUS 109. Songwriting. 2 cr. Students of varying backgrounds learn basic music theory, structures of well written songs, and how to compose songs.

MUS 110. Musicianship I. 3 cr. Review theory fundamentals. Introduction to applied skills, analysis, and composition of tonal music. Prereq: Placement exam or 109; con reg in 112.

MUS 111. Musicianship II. 3 cr. Extension of applied skills, analysis, and composition in the tonal idiom, including modulation and chromaticism. Prereq: 110, 112, and con reg in 113.

MUS 112. Aural Musicianship I. 1 cr. Introduction to aural musicianship. Prereq: Placement exam or 109; con reg in 110.

MUS 113. Aural Musicianship II. 1 cr. Extension of aural musicianship skills. Prereq: 110, 112, con reg in 111.

MUS 122-138. Small Ensembles I. 1 cr each. May repeat for credit. Prereq: Cons instr.

122-Vocal Jazz; 123-Chamber Jazz; 124-Pit Orchestra; 126-Improvisation Ensemble; 130-Vocal; 131-String; 132-Flute; 133-Clarinet; 134-Saxophone; 135-Mixed Woodwind; 137-Mixed Brass; 138-Drumset.

MUS 144. University Band. 1 cr. An opportunity for nonmusic majors to continue playing in a musical organization for enrichment. No audition necessary. May repeat for credit.

MUS 150-157. Class Applied Music. 2 cr each (except as noted). Class participation and observation.

150 (1 cr)-Vocal Techniques for Instrumentalists; 152-Violin/Viola/Cello/String Bass; 153 (1 cr)-Cello/String Bass (Prereq: 152); 154-Double Reeds/Flute; 155-Single Reeds; 156-Brass; 157-Drumset.

MUS 158. Group Piano. 1 or 2 cr. Piano through Level III; for the nonpianist music major; exemption by audition from any level or part of a level. Does not count toward music major/minor, except BM degree in music ed-vocal emphasis.

MUS 159. Group Piano for Elementary Teacher. 2 cr. Basic piano skills in music and rhythmic reading, harmonization of simple melodies; for students in elementary education.

MUS 160-181. Applied Music I. 2 cr each. Prereq: Cons chair. 160-Piano; 162-Voice; 163-Violin; 164-Viola; 165-Violoncello; 166-Double Bass; 167-Flute; 168-Oboe; 169-Clarinet; 170-Bassoon; 171-Saxophone; 172-Trumpet; 173-Horn; 174-Trombone; 175-Euphonium; 176-Tuba; 177-Drumset; 181-Jazz Guitar.

MUS 192. Jazz Improvisation I. 2 cr. Fundamentals of jazz improvisation with respect to scale/chord relationships. Focus on standard chord progressions using ii-V-I's as well as the twelve bar blues. Prereq: 110/112 or cons instr.

MUS 193. Music Improvisation. 2 cr. Applied improvisation using jazz, aleatory, chance, and free improvisation. Prereq: Basic proficiency on a musical instrument, an understanding of improvisation in other media, or cons instr.

MUS 210. Musicianship III. 3 cr. Extension of applied skills, analysis, and composition in the chromatic idiom. Prereq: 111, 113, and con reg in 212.

MUS 212. Aural Musicianship III. 1 cr. Advanced aural musicianship skills. Prereq: 111, 113, and con reg in 210.

NOTE: If you fail or receive an incomplete in applied musicianship courses (112, 113, 212), you may enroll for the next course in the sequence with permission of the theory faculty, provided that you repeat the failed course, or remove the incomplete in the same semester.

MUS 217. Beginning Jazz Arranging Techniques. 2 cr. Study jazz and commercial arranging styles for public school and professional organizations. Prereq: 111 or cons instr.

MUS 220. Introduction to Music Literature. 2 or 3 cr. Survey non-Western and early Western (pre-1600) music; skills for studying music, including listening and research skills. Uses of music in diverse non-Western and Western groups. Music lit majors/3 cr. GDR:HU1

MUS 221. 17th-18th Century Music. 2 or 3 cr. Musical idioms and styles of Baroque and Classical periods; development of new forms; relationship of music to general culture of period. 3 cr for music lit majors. GDR:HU1

MUS 222-238. Small Ensembles II. 1 cr each. Same listing as 122-138 at sophomore level. May repeat once for credit. Prereq: 122-138.

MUS 260-281. Applied Music II. 4 cr for applied music majors; 2 cr all others. Same listing as 160-181 at sophomore level. May repeat once for credit. Prereq: 160-181, and cons chair.

MUS 291. Jazz Keyboard Techniques (formerly 391). 2 cr. Basic keyboard skills in chord voicing, accompanying, and chord/scale relationships. Prereq: 210 or cons instr.

MUS 292. Jazz Improvisation II (formerly 392). 2 cr. Study and apply chord/scale relationships with respect to minor ii-V7(alt)-I progressions, as well as syntactic approaches to modal forms and unconventional harmonic sequences. Prereq: 192 or cons instr.

MUS 300. Music International. 2 or 3 cr. Music in performance in overseas study program. Attendance at performances supplements attention to backgrounds, development of various forms, and masterworks of various periods. Counts toward bachelor of music degree and music minor. Prereq: Jr st or cons instr. GDR:HU1

MUS 301/501. History of Women in Music. 2 or 3 cr. The contribution of women as composers, performers, authors, and teachers throughout European and American history. GDR:HU1

MUS 302. Diction for Singers I. 1 cr. Apply international phonetic alphabet to lyric diction in Latin, Italian, German, and French repertoire. 1 hr lec, 1 hr lab per wk. Prereq: Cons instr.

MUS 303. Diction for Singers II. 1 cr. Continuation of 302. 1 hr lec, 1 hr lab per wk. Prereq: 302 or cons instr.

MUS 305/505. Jazz History for Musicians (formerly 304 and 305). 3 cr. History of jazz from its genesis to present. Focus on important artists as well as social, political and technological effects on music.

MUS 307/507. Survey of World Music. 3 cr. Survey of world music with reference to specific musics from four cultural groups. Lec, disc, and hands-on experiences. Prereq: Cons instr. GDR:HU1

MUS 308. Survey of Film Music. 3 cr. Critical study of film music from silent era to present. May take as elective toward music major/minor. Prereq: Music major/minor.

MUS 309. Historical Analysis of American Popular Music. 3 cr. Critical and historical analysis of popular music in America including jazz and folk music, musical theater, and others. May take as elective toward music major/minor. Prereq: Music major/minor; 111,113,220.

MUS 315/515. Orchestration. 2 cr. Orchestral instruments: their ranges, playing characteristics, physical properties, history, and advisable use. Prereq: 110.

MUS 317. Conducting. 2 cr. Conducting techniques for vocal and instrumental groups; experience in conducting through class laboratory situations. Prereq: 110.

MUS 319/519. Introduction to Music Business. 2 cr. Copyright law, unions and guilds, recording industry, television/film and radio, music management.

130 Music

MUS 320. 19th Century Music. 2 or 3 cr. Musical styles and idioms of the Romantic period, 1825-1900; origins, development, rise of new forms, relationship of music to general culture of period. Music lit majors/3 cr. GDR:HU1

MUS 321. 20th Century Music. 2 or 3 cr. Trends of 20th century music from historical and theoretical standpoints. Survey literature, develop aural and written theoretical skills pertaining to 20th century music. Music lit majors/3 cr. Prereq: 210, 212.

MUS 322. Choral Literature. 2 cr. Survey significant small forms of choral composition from Renaissance to present, with stylistic understanding.

MUS 323/523. Opera. 3 cr. Opera from 1600 to present, with one masterwork of each period. GDR:HU1

MUS 326/526. Music Before 1600. 3 cr. History, literature, and stylistic trends of music from the Greeks to 1600. GDR:HU1

MUS 327/527. Music Reference and Research Techniques. 2 cr. Introduction to musical scholarship and writing projects in music history-literature, theory, and musicology; also bibliographical survey of reference materials. Prereq: 211-212, 220, 221, and cons instr.

MUS 328/528. Studio Accompanying. 1 cr. For intermediate and advanced pianist; develop accompanying skills in vocal and instrumental music; supervision of applied instructor in an area other than piano; required for applied piano. Prereq: Cons piano faculty.

MUS 329/529. American Music. 3 cr. From pilgrims to present; emphasis on jazz and ethnic music, and their influence on contemporary music. GDR:HU1

MUS 330-338/530-538. Small Ensemble III. 1 cr each. May repeat once for credit. Prereq: 230-238.
330/530-Vocal; 331-String; 332/532-Flute; 333/533-Clarinet; 334/534-Saxophone; 335/535-Mixed Woodwind; 337/537-Mixed Brass; 338/538-Percussion.

MUS 341/541. Large Ensemble: Choir. 1 or 2* cr. May repeat for credit. Prereq: Audition or cons instr.

MUS 342/542. Large Ensemble: Orchestra. 1 or 2* cr. May repeat for credit. Prereq: Audition or cons instr.

MUS 343/543. Large Ensemble: Band. 1 or 2* cr. May repeat for credit. Prereq: Audition or cons instr.

MUS 345/545. Jazz Ensemble. 1 or 2* cr. May repeat for credit. Prereq: Audition or cons instr.

*Nonmusic majors may attend 5 rehearsals weekly for 2 cr, or 3 rehearsals for 1 cr, with optional scheduling.

MUS 359-384. Applied Music III. 4 cr for applied majors; 2 cr all others. Jr/sr nonapplied music majors may register for 4 credits with cons instr and chair. Prereq: 260-281 and cons chair.

359-Harpichord (Prereq: Piano proficiency of Level VII and cons instr); 360-Piano; 362-Voice; 363-Violin; 364-Viola; 365-Violoncello; 366-Double Bass; 367-Flute; 368-Oboe; 369-Clarinet; 370-Bassoon; 371-Saxophone; 372-Trumpet; 373-Horn; 374-Trombone; 375-Euphonium; 376-Tuba; 377-Percussion; 379-Composition; 381-Jazz Guitar; 383-Jazz; 384-Jazz Composition.

MUS 390. Opera/Musical Theatre Workshop. 1 cr. Practical experience in opera, operetta, musical comedy. May repeat for credit; required in applied voice degree. Prereq: Cons instr.

MUS 392/592. Analytical History of Jazz Improvisation. 2 cr. Chronological study of improvised jazz solos on major instrument including transcription, analysis and performance of selected recordings. Prereq: 292 or cons instr.

MUS 394. Advanced Choral Conducting. 2 cr. Conducting and rehearsal techniques with emphasis on the relationship between gesture and interpretation of the score; experience in conducting the university choral ensembles. Prereq: 317.

MUS 395. Advanced Instrumental Conducting. 2 cr. Experience in selecting, conducting, and rehearsing instrumental music suitable for use in elementary and secondary schools; emphasis on performance problems unique to band and orchestra instruments; required performance on secondary instruments. Prereq: 317.

MUS 410. Form and Analysis. 3 cr. Survey of musical forms through Beethoven, in context of their contribution to musical style, with analysis techniques useful in performance, score preparation, and teaching. Prereq: 211, 213.

MUS 418. Senior Seminar. 2 cr. Topics for the professional jazz musician, including jazz pedagogy, music business and role of technology in music. Prereq: Sr st.

MUS 420/620. Piano Literature I. 3 cr. Keyboard literature from 1700 to 1825 including major composers and their contributions.

MUS 421/621. Piano Literature II. 3 cr. Keyboard literature from 1825 to present with emphasis on major composers and their contributions.

MUS 422/622. Voice Literature. 3 cr. Study vocal literature from 1500 to present to broaden performing and teaching repertoire, including study of program building.

MUS 426/626. Chamber Music. 3 cr. Survey chamber music including string quartet literature and other instrumental chamber ensembles.

MUS 427/627. Symphonic Music. 3 cr. Survey symphonic music, including symphony literature and symphonic program music. GDR:HU1

MUS 428. Senior Project in Music Literature. 2 cr. Culminating experience. With minimal guidance, produce research project in musicology or ethnomusicology. Prereq: Music lit major, sr st, 327.

MUS 429. Piano Chamber Ensemble. 1 cr. Study and perform chamber music. Weekly coaching sessions with piano faculty; performance in student recital. Required for applied piano degree. Prereq: Cons instr.

MUS 430-438. Small Ensemble IV. 1 cr each. May repeat once for credit. Prereq: Cons instr.
430-Vocal; 431-String; 432-Flute; 433-Clarinet; 434-Saxophone; 435-Mixed Woodwinds; 437-Mixed Brass; 438-Percussion.

MUS 460-484. Applied Music IV. Same description and listing as 360-384 at senior level. Prereq: 360-384 and cons chair.

MUS 491/691. Piano Pedagogy. 2 cr. Effective skills in private and class piano; discuss and perform piano literature; observe class and private instruction. Prereq: Piano proficiency Level IV.

MUS 492. Voice Pedagogy. 2 cr. Vocal teaching methods; observe class and private instruction. Prereq: Voice proficiency Level IV.

MUS 493. Woodwind Pedagogy. 2 cr. Methods of teaching woodwind instruments and specific problems of each instrument.

MUS 494. Brass Pedagogy. 2 cr. Methods of teaching brass instruments and specific problems of each instrument.

MUS 495. Percussion Pedagogy. 2 cr. Percussion literature and reference material including method books, textbooks, and publisher sources. Prereq: Percussion proficiency Level IV.

MUS 496. String Pedagogy. 2 cr. Techniques employed by master string teachers of the past and present, including literature and music available for string instruction at all levels, in both private and class situations. Prereq: Performance Level IV, and/or cons instr.

MUS 499. Special Work. Upperclass music majors may arrange for independent study with cons chair. Credit based on scope of project devoted to theory, conducting, composition, orchestration, or music history.

MUS 711. Theory. 3 cr. Structure and materials of music, in which analysis is related to the performance and interpretation of music; musical materials drawn from small forms, 1650-1900.

MUS 712. Form and Analysis. 3 cr. Musical forms from all periods, with emphasis on structural analysis.

MUS 760-782. Artist Course in Applied Music. 2 cr each. Expand repertoire and develop musicianship.
760-Piano; 762-Voice; 763-Violin; 764-Viola; 765-Violoncello; 766-Double Bass; 767-Flute; 768-Oboe; 769-Clarinet; 770-Bassoon; 771-Saxophone; 772-Trumpet; 773-Horn; 774-Trombone; 775-Baritone; 776-Tuba; 777-Percussion; 779-Composition; 781-Jazz Guitar; 782-Keyboards Synthesizer.

MUS 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization.

Music Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

125/225 Small Ensembles I, Studio Orchestra, 1 cr, (01-03)
136/236/336/436/636: Small Ensemble I, Low Brass, 1 cr, (01-03)
140 Oratorio Chorus, 2 cr, (93-95)
143 Marching Band, 1 cr, (93-95)
149 Class Applied Music-Guitar, 2 cr, (01-03)

- 151 Class Applied Music—Voice, 2 cr, (93-95)
- 161/261/361/761: Applied Music I—Organ, 2 cr, (93-95)
- 178/278/378/478/778: Applied Music I—Harp, 2 cr, (01-03)
- 180/280/380/480/780: Applied Music I—Classical Guitar, 2cr (93-95)
- 311 Advanced Theory II, 3 cr.
- 324/524 Organ Literature I, 3 cr, (93-95)
- 325/525 Organ Literature II, 3 cr, (93-95)
- 344/544 Large Ensemble: Vocal Jazz, 2 cr, (95-97)
- 349 Service Playing Techniques, 2 cr, (93-95)
- 397 Collab Arts Performance Workshop, 1 cr, (01-03)
- 417/617 Advanced Jazz Arranging Techniques, 2 cr, (01-03)
- 424/624 History/Lit of Wind Ensemble Music, 2 cr, (01-03)
- 459 Applied Music IV—Harsichord, 2-4 cr, (01-03)
- 502 Diction for Singers I, 1 cr, (01-03)
- 503 Diction for Singers II, 1 cr, (01-03)
- 531/631 Small Ensemble III—String, 1 cr, (01-03)
- 629 Piano Chamber Ensemble, 1 cr, (01-03)
- 630/632/633/634/635/637/638: Small Ensemble IV, 1 cr (01-03)
- 722 Mass, Motet, and Contata, 2 cr, (89-91)

Courses in Music Education

- MUED 201. Introduction to Music Education.** 1 cr. Introduction to philosophy of music education. 2 hrs per wk; observe and participate in public school music classes. Prereq: Music 110, 112.
- MUED 323. Elementary Methods: General Music.** 2 cr. Theory and application of general music teaching skills in primary/intermediate grades; classroom observations. Prereq: 201 or cons instr.
- MUED 324. Elementary School Instrumental Music Teaching Techniques.** 2 cr. Theory and application of instrumental teaching skills in primary and intermediate grades; relationship to public school music and general curriculum; classroom observation. Prereq: 201 and 156; or cons instr; for music major/minors only.
- MUED 325. Secondary Methods: Choral.** 2 cr. Methods, materials and curricular organization of choral music in junior and senior high schools; teaching and rehearsal strategies. Prereq: 201, 322, 394 or cons instr. For music majors only.
- MUED 326. Secondary School Instrumental Music Teaching Techniques.** 2 cr. Methods, materials, curricular organization, and teaching strategies for instrumental music in high school. Prereq: 324 or cons instr; for music major/minors only.
- MUED 381. Elementary School Music.** 3 cr. Theory, techniques, and teaching skills in primary and intermediate grades; music fundamentals for each grade; aims and content of public school music in relation to general curriculum. Does not count toward music major/minor. Prereq: Pass basic musicianship competency test. (See elem ed curriculum for BS degree.)
- MUED 382. Secondary Methods: General Music.** 2 cr. Theory and application of general music teaching skills in the secondary school; objectives, materials, planning, and testing. Prereq: 201 or cons instr.
- MUED 383/583. Music Education Workshop.** 1-3 cr. Materials, methods, and curricular developments in music education and performance pedagogy. Subtitle will designate area and prerequisites.
- MUED 384/584. Suzuki Talent Education Pedagogy.** 2 cr. Foundations of Suzuki talent education philosophy and system as a practical approach to developing musical ability in children; teaching skills to establish a learning environment; discussion, observation, and audiovisual materials. Individual music performance not required.
- MUED 385/585. Suzuki Workshop I.** 2 cr. (Sec. 1, violin; Sec. 2, piano.) Apply techniques and repertoire of Suzuki method at the elementary level; individual performance and observation of children required. Prereq: 384/584 or cons instr. (May be registered with SAA.)
- MUED 386/586. Suzuki Workshop II.** 2 cr. (Sec. 1, violin; Sec. 2, piano.) Apply techniques and repertoire of Suzuki method beyond the elementary level; individual performance and observation of children required. Prereq: 385/585 or cons instr. (May be registered with SAA.)
- MUED 387/587. Survey of Suzuki Talent Education.** 2 cr. (Section 1-Level I, may repeat once for credit; Section 2-Level II; Section 3-Level III; Section 4-Level IV; Section 5-Level V; Section 6-Level VI; Section 7-Level VII; Section 8-Level VIII.) Study Suzuki talent education philosophy and repertoire and apply to teaching at designated levels including performance and observation of children. (May register with SAA.)
- MUED 389/589. Principles of Adult and Continuing Music Education.** 2 cr. Needs and characteristics of adult learners in music; strategies to develop learning and performance enterprises in community settings. Prereq: 201 or cons instr.

- MUED 390. Music for Exceptional Children.** 2 cr. How to use music with children who are mentally retarded, emotionally disturbed, learning disabled, or gifted, or who have visual, hearing, speech, or motor impairments; techniques and materials. Prereq: 323; Educ 351/551.
- MUED 398. Student Teaching in Music.** 16 cr. Observation and teaching in elementary and/or secondary classroom under guidance of cooperating teachers and university faculty. Prereq: Completion of music major, DPI, and education requirements.
- MUED 465/665. Literature of Suzuki Talent Education I.** 3 cr. (Sec 1, violin; Sec 2, piano.) Survey performance and teaching literature; graded performance and technical materials; leads to advanced level training. Ability to demonstrate musical and technical concepts required. Prereq: 385/585 or cons instr. (May be registered with SAA.)
- MUED 466/666. Literature of Suzuki Talent Education II.** 3 cr. (Sec 1, violin; Sec 2, piano.) Continuation of 465/665. Prereq: 465/665 or cons instr. (May be registered with SAA.)

MUED 498. Intern Teaching. 16 cr. Structured field experiences in approved school programs. Interns are certified by DPI and are employed under contract with schools to design, deliver, and assess instructional programs in grades n-k-12. Prereq: Complete all methods courses and 75% content courses in approp major. Con reg in approp section of Educ 400 may be required.

- MUED 723. Music Literature for Junior/Senior High Schools.** 3 cr. Select and present classic and modern literature for young people; styles and form and their implications for teaching.
- MUED 751-762. Pedagogical Techniques for Music Teachers.** 2 cr each. Designed to assist the experienced teacher.
751-Voice; 752-Violin; 756-Clarinet; 758-Trumpet; 759-Horn; 760-Low Brass; 761-Percussion; 762-Guitar.

- MUED 786. Seminar in Music Education I.** 3 cr. Aesthetic and philosophical foundations of music education; current trends in educational thought and their implications for music education.
- MUED 787. Seminar in Music Education II.** 3 cr. Psychological foundations of music education; develop teaching objectives; current trends in methodology.
- MUED 788. Seminar in Music Education III.** 3 cr. Aesthetics, philosophical and practical foundations of Suzuki talent education, its techniques and teaching objectives.
- MUED 790. Seminar in Music Education V.** 3 cr. Techniques and materials of individual and group instruction; with applications for the jazz educator. Subtitle will designate area.
- MUED 797. Performance, Methods, and Materials.** 2 cr.
- MUED 799. Thesis.** 2-6 cr.

- Music Education Latent Courses:** Not offered recently. Full description in (xx-xx) catalog.
- 424/624 Survey of Choral Literature, 2 cr, (01-03)
 - 425/625 Survey of Instrumental Literature, 2 cr, (01-03)
 - 427/627 Workshop in Jazz Pedagogy, 2-3 cr, (01-03)
 - 485/685 Band Pageantry, 2 cr, (01-03)
 - 486/686 Instrument Repair, Tuning, etc, 2 cr, (01-03)
 - 487/687 Theory/Practice Piano Tune/Repair, 2 cr, (01-03)
 - 710 Theory for Jr & Sr High Schools, 3 cr, (01-03)
 - 750 Pedagogical Technique-Piano, 2 cr, (01-03)
 - 753 Pedagogical Technique-Low Strings, 2 cr, (01-03)
 - 754 Pedagogical Technique-Flute, 2 cr, (01-03)
 - 755 Pedagogical Technique-Double Reeds, 2 cr, (01-03)
 - 757 Pedagogical Technique-Brass, 2 cr, (01-03)
 - 781 New Developments in Elementary Music, 3 cr, (01-03)
 - 783 Problems in Curriculum and Supervision, 3 cr, (01-03)
 - 784 Choral Rehearsal Techniques, 3 cr, (01-03)
 - 785 Instrumental Rehearsal Techniques, 3 cr, (01-03)
 - 789 Seminar in Music Ed IV, 3 cr, (01-03)
 - 798 Residency, 1-6 cr, (01-03)

MUSIC LITERATURE

See *Music*.

MUSICAL THEATRE

See *Theatre and Dance*.

NATIVE AMERICAN AND RURAL SOCIAL WORK

See *Sociology*.

Native American Studies (College of Professional Studies)

Henry St. Maurice, coordinator
Room 112, College of Professional Studies Building
Phone: 715-346-2449
E-mail: hstmauri@uwsp.edu

A minor in **Native American studies** is interdepartmental and is administered by the School of Education.

Native American Studies Minor

Consists of a minimum of 18 credits:

1. Required, 6 credits: Anthropology 125 or Education 305, and History 288/388.
2. Electives: 12 or more credits from Anthropology 339, 345, 371, 393; English 280; History 382; Interior Architecture 306; Philosophy 381; Religious Studies 316; Sociology 364.

Natural Resources, College of (CNR)

Victor D. Phillips, Dean of College of Natural Resources
Christine L. Thomas, Associate Dean for Academic Affairs
Randy Champeau, Associate Dean for Outreach/Extension
Room 100, College of Natural Resources Building
Phone: 715-346-4617
E-mail: cnr@uwsp.edu
Web: www.uwsp.edu/cnr

CNR Student Success Center, 180 CNR, 715-346-4081
Susan M. Kissinger, Advising/Recruitment Coordinator

The College of Natural Resources offers degrees in forestry, paper science, resource management, soil and waste resources, water resources, and wildlife. These degree programs with a variety of options are described under the appropriate headings in the following pages.

We offer majors and/or minors in conservation biology, environmental communication, environmental education/interpretation, environmental education for elementary/middle school teachers, environmental law/enforcement, forest management, forest administration and utilization, urban forestry, forest recreation, forest ecosystem restoration and management, international resource management, land use planning, resource management, soil science, soil and land management, waste management, limnology and fisheries, water resources, watershed hydrology and management, watershed administration, wildlife, wildlife ecology and management, wildlife education, and youth programming and camp management.

To major in any of these areas, you must also meet general degree requirements listed earlier in this catalog. Also:

1. In order to be prepared to take most of the courses numbered 300 and above in the College of Natural Resources, you will need to complete the introductory natural resources courses (NRES 150, 151, 250, 251), as well as the summer camp courses, before the beginning of your junior year.
2. The courses you take to fulfill a specific major or minor must be approved by an adviser in that discipline before you graduate. Therefore, it is imperative that you work with an adviser when choosing courses.
3. You may not use the pass/fail option for any courses required for your major or minor.

Abbreviations

CIS = Computer Information Systems
Comm = Communication
CWES = Central Wisconsin Environmental Station
Econ = Economics
EE/I = Environmental Education/Interpretation
GISSA = Geographic Information and Spatial Analysis
NRES = Natural Resources
Poli Sci = Political Science

Academic Standards

You must apply for official acceptance as a College of Natural Resources major before the beginning of your junior year. Requirements are:

1. Complete 45 university credits.
2. Have at least a 2.00 grade point average in courses required for the major.
3. Complete an application to the College of Natural Resources. We will notify you within four weeks of your application, and if accepted will assign an adviser. Certain 300 and 400 level courses are restricted to approved CNR and/or biology majors. Nonmajors must have written consent of instructor to enroll.
4. If you are transferring to UWSP to major in the College of Natural Resources, you must have a cumulative grade point average of at least 2.00. To be accepted as a CNR major, complete steps 1-3 above.
5. To be retained as a major or minor and to be approved for graduation, you must meet the minimum grade point average established for your discipline in all UWSP courses taken within the major or minor (2.75 to student teach in resource management), including transfer courses, regardless of any declaration of academic bankruptcy. Minimum GPA by discipline:
 - a. 2.0 GPA for general resource management and all options of water resources.
 - b. 2.25 GPA for all options of wildlife, all options of soil and waste resources, land use planning, environmental education/interpretation, and youth programming and camp management.
 - c. 2.50 GPA for all options in forestry.
 - d. 2.75 GPA for paper science.
6. You may repeat only one class with a grade of D in the College of Natural Resources. The new grade will be calculated into the grade point average. The associate dean may allow exceptions on a conditional basis.

Test-out and Credit-by-Exam Policy

The College of Natural Resources offers credit-by-exam for all of its courses. The comprehensive exam for each course will be written and drawn from lecture and/or lab topics normally covered in the course.

If you wish to take an exam for credit, first confer with the CNR associate dean for academic affairs. Then confer with the faculty member who most recently taught the course. The faculty member will give you any pertinent information about the exam and notify you in writing before you take the exam of the required minimum passing score. You will receive your grade in writing within two weeks after taking the exam. Results will be forwarded to the Registration and Records Office if credit-by-exam is granted. You may take a test-out exam only once.

Master of Science Degree in Natural Resources

See the **Graduate** section of this catalog.

FORESTRY

Jan Harms, Coordinator
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 E-mail: jharms@uwsp.edu OR CNR@uwsp.edu
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Faculty: J Cook, D Crunkilton, J DuPlissis, R Geesey, R Govett, A Haney, J Harms, R Hauer, J Houghton, S Kissinger, M Morshidi Phillips, V Phillips, R Rogers, H Schabel, E Spangenberg, L Werner.

Accreditation: The forestry program is accredited by the Society of American Foresters.

Definition: Forestry is the science, art, and practice of creating, managing, using, and conserving forests and associated resources. Biological, quantitative, managerial, and social sciences are applied to forest management and conservation in urban and rural environments.

Objectives of the Forestry Program

1. **To provide a sound undergraduate program of forestry education.** The core of required forestry courses is based on standards for professional training established by the Society of American Foresters. Our program adds flexibility to help meet your professional objectives through the selection of collateral courses and specialized training.
2. **To support and enhance the other majors in the College of Natural Resources and other academic programs of the university.** The philosophy of the College of Natural Resources emphasizes the oneness of the environment. To that end all majors in the college require training in forestry, soils, water, and wildlife. You can combine minors or concentrations in these other disciplines with your forestry major to enhance your qualifications as a forestry professional.
3. **To pursue new knowledge.** Research is the basis of the graduate program. Research primarily in applied forestry is allied to the undergraduate program.
4. **To apply contemporary forestry knowledge through continuing education and extension.** The forestry program serves as a center for the exchange of knowledge through sponsorship of symposia, workshops, and seminars on contemporary subjects for forestry professionals and forest landowners.
5. **To develop professionalism and an esprit de corps among students, alumni, and faculty.** The faculty encourages continuing participation in professional and university activities by coordinating activities with the Society of American Foresters, the student chapter, local chapters, sections of the society, and the university alumni association.

Academic Standards

To graduate with a major or minor in forestry, you must have a minimum cumulative grade point average of 2.50.

Forestry Major

1. Major study and approved electives to total 134 credits.
2. One summer of adviser approved forestry internship or employment. (This is NOT a course.)
3. Required courses, 58 credits:
 - a. Forestry 321, 322, 327, 332, 425, 432, 449; NRES 150, 151, 250, 251, 372, 490.
 - b. Biology 130; Economics 210; Geography 279; Philosophy 380.

- c. Summer Camp: Forestry 319, 320, NRES 405, Soils 359, 360, Water 380, Wildlife 340; or NRES 475.
4. Complete ONE of five following collateral options:
 - a. **Forest Management** (50 credits)
 - 1) Biology 160; Chemistry 105; Math 111, 112; Forestry 232, 326, 329, 370, 433; 4 credits of 324, 424, 426; NRES 377; Biology 350 with Biol 130 and Chem 105 accepted as prereqs; and one course from Comm 240, 280, English 251, 254, 354, NRES 320.
 - 2) Electives: select 8 credits from Forestry 324*, 325, 330, 331, 333, 335, 350, 381 (1-3 cr), 385, 394, 424*, 426*, 428, 431, 434, 440, 480, 493; Geography 476; NRES 320*, 323, 357, 371, 473, 474; Paper Science 101; Soils 361; Water 389, 493; Wildlife 451. (*If not taken to meet 4a1 above.)
 - b. **Forest Administration and Utilization** (55-56 credits)
 - 1) Natural science: Select 10 credits total from at least two of the following areas: Biology 160; Chemistry 101, 105, 106; Physics 101, 203, 204.
 - 2) Math 109 or 111 and 112.
 - 3) Accounting 210; Business 340, 380; and one from Comm 240, 280, English 251, 254, 354, NRES 320.
 - 4) Forestry 232, 326, 329, 370; two of Forestry 428, 429, 433; and NRES 377.
 - 5) Electives: At least 8 adviser approved credits from 300-400 level forestry, natural resources, business, economics courses; 200-400 level accounting courses; 100-400 level paper science courses.
 - c. **Urban Forestry** (49 credits)
 - 1) Biology 160; Chemistry 105; Math 111, 112; Forestry 232, 326, 331, 333, 335, 385, 424, 426, 431; NRES 320; Biology 350 with Biol 130 and Chem 105 accepted as prereqs.
 - 2) Electives: 6 credits from Forestry 324, 342, 381 (1-3 cr), 395, 430; Wildlife 454; Biology 344, 346; Geography 476; NRES 335, 357, 377, 474.
 - d. **Forest Recreation** (52-54 credits)
 - 1) Biology 160; Chemistry 105; Math 111, 112; Forestry 232, 324, 326, 330, 331 or 333, 335, 385, 394, 426, 480; NRES 320, 367, 3 credits of 369.
 - 2) Electives: 5-6 credits from Forestry 334, 342, 381 (1-3 cr), 424, 430, 431, 433; Geography 476; NRES 335, 357, 377, 393, 440, 473, 474, or any 300-400 level wildlife course beyond Wildlife 320, excluding 340.
 - e. **Forest Ecosystem Restoration and Management** (52-54 credits) NOTE: An enrollment cap is in effect for this option. Consult the forestry coordinator for advising information and for application criteria. If you pursue this option, we highly recommend that you plan to continue your education with an advanced degree.
 - 1) Biology 160, 342, 345, 377; Chemistry 101; Math 111, 112, Forestry 324, 381; Soils 361; NRES 320 and 458 or Wildlife 458, and NRES 459; Water 481 or Wildlife 360.
 - 2) Select 5-6 credits from NRES 377, 444; Geography 279, 476, 479.

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- 3) Select at least 4 credits from Biology 338, 347, 360, 374, 378; Forestry 426, 440; Water 387, 481*, 482; NRES 457, 458, 462; Wildlife 360*, 451. (*If not taken to meet 4e1 above.)

Forestry Minor

Consists of 26 credits

1. Forestry 232, 322, 332, 425, 432, 449; NRES 250.
2. Select remaining credits from Forestry 232, 319, 320, 321, 324, 325, 326, 327, 328, 335, 350, 394, 395, 424, 426, 433, 493; NRES 323, 371, 372; Soils 361; Water 493.

Forest Recreation Minor

Consists of 27 credits:

1. Forestry 330, 331, 334, 335, 394, 480; at least 4 credits from NRES 363, 364, 365, 367, 368.
2. Eight credits from the following: Forestry 324, 332, 333, 381 (1-3 cr), 385; NRES 320, 393 or 473, 474; Wildlife (any 300-400 level course beyond 320 and excluding 340).

Forest Recreation Concentration in the Business Administration Major

See *Business and Economics* earlier in this catalog.

Forestry Transfer Students

If you are transferring here from an accredited institution to pursue a degree in forestry, you must complete at least 21 credits of 300 and 400 level UWSP forestry courses.

Courses in Forestry

FOR 224. Fire Operations. 1 cr. Fire control techniques, tactical planning, fire crew supervision, safety procedures, and proper use and maintenance of equipment for management of prescribed burns and control and suppression of wildland fires. After completing this course and a WDNR firefighting training session, you may apply for WDNR firefighter's certification. (I)

FOR 232. Dendrology and Silvics. 3 cr. Ecology and classification of common upper Midwest trees and shrubs. Prereq: Biol 130 and NRES 151. (I)

FOR 319. Land Surveying. 1 cr. Practices in land surveying, including distance and angular measurement, area computation and mapping, stadia, notekeeping, and deed searching for integrated resource management. Prereq: NRES 250; 2.00 GPA in major, CNR major or written cons instr. (SS)

FOR 320. Field Experience in Forest Measurement. 1 cr. Application of forest measurement techniques and ecological relationships for integrated resource mgnt. Prereq: NRES 250; 2.00 GPA in major, CNR major or written cons instr. (SS)

FOR 321/521. Forest Biometry. 4 cr. Use applied mathematical and statistical methods to solve forestry problems. 3 hrs lec, 2 hrs lab per wk. May not earn credit in both 321 and Math 355. Prereq: Math 100, CNR major or written cons instr. (I, II)

FOR 322/522. Forest Mensuration. 3 cr. Measure volume, growth, development of individual trees and stands; determine products obtainable from them; construction and use of appropriate instruments, tables, and surveys. Prereq: Math 109 or 111; Forestry 232, 319 and 320 or NRES 475; Math 355 or Forestry 321; CNR major or written cons instr. (I)

FOR 324. Fire Management and Ecology. 2 cr. Phenomenon of fire; its physical and chemical effects and historical significance. Behavior and effect of wild and prescribed fire in temperate forests. Techniques for planning, conducting, and evaluating prescribed burns. Prereq: Forestry 320, 327, NRES 250; CNR major or written cons instr. (II)

FOR 325/525. Range Management. 3 cr. Technical study of sustained yield management practices for rangelands; proper stocking and grazing systems; methods of range surveying. Prereq: Biol 130, NRES 251, CNR major or written cons instr. (II)

FOR 326/526. Amenity Forestry. 3 cr. Management of forests for nontimber values including recreation, landscape aesthetics, and urban forestry. 2 hrs lec, 2 hrs lab per wk. Prereq: Summer Camp or cons instr. (I)

FOR 327/527. Forest Protection. 3 cr. Analysis of biotic and abiotic agents, including insects, pathogens, forest fires, meteorological, soil, and other factors impacting tree health. Principles of detection, prevention, integrated control. 2 hrs lec, 2 hrs lab per wk. Prereq: NRES 250, Biol 130, 160, CNR major or written cons instr. (I, II)

FOR 329/529. Harvesting Systems. 2 cr. North American tree harvesting systems: felling, limbing, bucking, forwarding, loading and hauling, analysis of safety procedures, equipment selection and maintenance, environmental implications, and cost determinations. Prereq: Summer Camp, CNR major or written cons instr. (I)

FOR 330/530. Forest Recreation Planning and Site Design. 3 cr. Analyze principles and practices of forest recreation planning, especially federal and state recreation agencies; develop master plans for parks; on-site planning procedures. Prereq: 335, CNR major or written cons instr. (II)

FOR 331/531. Landscape Maintenance/Arboriculture. 3 cr. Principles and practice of tree, shrub, and turf establishment and maintenance; use and maintenance of landscape equipment and facilities. Prereq: CNR major or written cons instr. (I)

FOR 332/532. Forest Ecosystem Ecology. 3 cr. Community and ecosystem level forest ecology in temperate/boreal region with a focus on processes which determine ecosystem structure and function. Prereq: Biol 130, Forestry 232, Summer Camp, CNR major or written cons instr. (I)

FOR 333/533. Urban Forestry. 2 cr. Management of trees and other vegetation in metropolitan areas to enhance the urban environment. Prereq: 232, CNR major or written cons instr. (II)

FOR 334/534. Forest Recreation and Tourism. 3 cr. How the tourism industry affects forest recreation supply and demand, public/private leisure service agencies and the economy; travel motives, destination appeal, marketing, roles played by various agencies, social trends that relate to management and planning. Prereq: 335 or cons instr. (II)

FOR 335. Recreational Use of Forests and Parks. 2 cr. Survey the nature and extent of recreational use of forest environments; roles of public and private agencies in providing forest recreation; social and environmental impact of forest recreation; and principles of management and planning. (I, II)

FOR 342. Urban Trees and Shrubs. 1 cr. Identification of non-native plants and their desirable attributes for use as street trees and ornamental plantings in urban settings. Prereq: 232 or cons instr. (I, II)

FOR 350/550. Contemporary Issues In Forestry. 1-3 cr. Current issues likely to influence forestry in the future. Subtitle will designate topic. May repeat for credit with different subtitles. May count 3 cr max toward graduation. (I, II)

FOR 370. Forest Products I: Wood as Industrial Raw Material. 2 or 3 cr. Nature and use of wood, manufacturing and use of important wood products, measures of product recovery, issues and trends in wood utilization. Field trips. Optional 1 cr lab for 3 cr. Prereq: 232, CNR major or written cons instr. (III)

FOR 381/581. Internship In Forestry. 1-12 cr. Supervised training program in forestry in cooperation with private or public resource agencies. One cr for 2-4 wks, (40 hrs per wk) of work. Credits and/or addl requirements determined before registration. May repeat once for 12 cr max. Prereq: Summer Camp, 2.0 GPA in major, and/or cons intern director, CNR major or written cons instr. (I, II, SS)

FOR 385/585. Applied Landscape Architecture. 2 cr. Principles of design, landscape assessment, and graphic techniques that apply to urban and rural forested landscapes. Prereq: Summer Camp or cons instr. (I, II)

FOR 394/594. Forest Recreation Seminar. 1 or 2 cr. Field observation and study of recreation planning and management problems and practices, at federal, state, and other recreation areas outside this geographical region. Prereq: 335 or cons instr. (II)

FOR 395. Tree Care Techniques. 1 cr. Maintenance of mature trees, including pruning, cabling, and removal. (I, II)

FOR 424/624. Forest Pathology. 2 cr. Diagnosis, ecology and integrated control of common forest and shade tree diseases. 2 hrs lec, 2 hrs lab per wk. Prereq: Biol 130, Forestry 232, 327, CNR major or written cons instr. (II)

FOR 425/625. Forest Management and Finance. 3 cr. Principles of organizing and regulating forest properties; valuation and investment analysis. 2 hrs lec, 2 hrs lab per wk. Prereq: 322, 432, CNR major or written cons instr. (I, II)

FOR 426/626. Forest Entomology. 2 cr. Identification, bioecology and integrated control of the more common and important forest insect families and species. 2 hrs lec, 2 hrs lab per wk. Prereq: Biol 160, Forestry 232, 327; CNR major or written cons instr. (I)

FOR 428. Forest Products II: Wood Products Manufacturing. 2 or 3 cr. Advanced topics in wood products manufacturing, especially sawmill operations. Lumber green sizing, quality control, drying, grading, recovery studies. Factors affecting mill production and profits. Field trips. Optional 1 cr lab for 3 cr. Prereq: 370, or 322 and 328, CIS 102, and CNR major or written cons instr. (I)

FOR 429/629. Forest Products III: Marketing and Advanced Manufacturing. 2 to 3 cr. Marketing forest products including typical channels of distribution by product type, origin and end use, functions of intermediaries. Case studies. Research project in wood products manufacturing. Field trips. Optional 1 cr lab for 3 cr. Prereq: 370, 428, and cons instr. (II)

FOR 430. Landscape Construction. 3 cr. Principles of surface drainage, aesthetic landform modification, earthwork calculation, and highway alignment applied to design of parks and institutional grounds. (I)

FOR 431/631. Tree Structure and Function. 2 cr. How tree morphology relates to tree management in urban environment. 1 hr lec, 1 hr lab per wk. Prereq: Biol 351, CNR major or written cons instr. (II)

FOR 432/632. Silviculture. 3 cr. Principles governing establishment, treatment, and control of forest stands; natural and artificial regeneration systems; intermediate cuttings, and cultural operations. Emphasizing principal forest types of Lake States region, North America. 2 hrs lec, 3 hrs lab per wk. Prereq: 232, 320, 322, 332, CNR major or written cons instr. (I)

FOR 433/633. Regional Silviculture. 2 cr. Review of Lake States silviculture and comparison with New England. In-depth study of silviculture in Appalachian, Southern, Pacific Northwest, and Rocky Mountain regions. Prereq: 432, CNR major or written cons instr. (II)

FOR 434/634. Field Practices in Silviculture. 1-3 cr. Field techniques in silviculture, including intermediate treatments of forest stands, forest regeneration techniques, and silvicultural management of forest stands. Prereq: 432. (II)

FOR 440/640. Forest Tree Improvement. 3 cr. Distribution of genetic variation in forest tree populations; introduction, selection, progeny testing, species hybridization, and biotechnology to obtain superior tree populations. Prereq: 232 or cons instr. (II)

FOR 449. Basic Forestry Skills Review and Testing. 1 cr, pass/fail. Review and testing of basic knowledge covered in required forestry courses and expected of entry level career foresters. Preliminary and practice tests are offered in conjunction with earlier required forestry courses. Prereq: 432, passing scores on preliminary sophomore and junior tests.

FOR 480/680. Forest Recreation Management. 3 cr. Formulate recreation management objectives; determine user preferences and satisfaction; analyze ecological impacts and facility requirements of forest recreation use. Prereq: Summer Camp; Forestry 335, 330; or cons instr. (I)

FOR 493. Forestry Field Seminar. 1 or 2 cr. Spring vacation tour outside the upper Midwest selected for intensive forest management and research facilities. Observe silvicultural practices, managerial programs, and wood use techniques. (1 cr is pass/fail; for 2 cr, complete comprehensive report.) Prereq: Cons instr. (II)

FOR 499. Special Work. Upperclass forestry students may arrange for independent study with cons assoc dean. Credit based on scope of project. (I, II)

FOR 701. Survey of Forestry. 1 cr. Key elements of forest ecology, silviculture, management and amenities, and their relation to key issues in forestry at the local, national and international levels. Prereq: Certified elementary and secondary teachers only.

FOR 724. Advanced Forest Protection. 3 cr. Advanced topics in pathology, entomology, and fire science management; review of basic principles and current literature; practical experience in laboratory and field techniques. Prereq: Cons instr.

FOR 725. Advanced Forest Management/Economics. 3 cr. Advanced topics and case studies including principles and theory of managerial and financial analysis, production economics and decision systems. Prereq: NRES 372, Forestry 425, or cons instr. (II-even years)

FOR 730. Tree Physiology. 4 cr. The principal physiological processes of trees including synthesis and use of foods, and growth phenomena. Prereq: Biol 351 and Chemistry 220 or equiv.

FOR 732. Advanced Forest Ecology and Silviculture. 3 cr. Advanced topics including ecosystem ecology, biogeochemistry, ecophysiology, ecosystem modeling, advanced decision making in silviculture, and application of ecological principles to silviculture. Prereq: 332, 432, or cons instr. (I-even years)

FOR 796. Current Topics in Forestry. 1-3 cr. Advanced coursework on a specific area in forestry. Prereq: Cons instr.

Forestry Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

328/528 Wood Technology, 3 cr, (01-03)

693 Forestry Field Seminar, 1-2 cr, (01-03)

HUMAN DIMENSIONS OF NATURAL RESOURCE MANAGEMENT

Dan Sivek, Coordinator

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Academic Standards

To graduate with a major in general resource management you must have a minimum cumulative grade point average of 2.00. To graduate in any other major or minor in human dimensions of natural resource management, you must have a minimum cumulative grade point average of 2.25.

Resource Management Major

1. Natural Resources courses, 19 credits: NRES 150, 151, 250, 251, 474, 490.
2. Geography 101 or Geology 104.
3. Summer Camp courses, 7 credits: Forestry 319, 320, NRES 405, Soils 359, 360, Wildlife 340, Water 380, or 8 credits of NRES 475.
4. Complete ONE of the following collateral options:
 - a. **General Resource Management**, 29 credits: Biology 130, 160; Chemistry 105 and 106, or 115 and 116; NRES 320 or 478; 372, 473 or 484. NOTE: To prepare for a professional career, we recommend that you select one or more minors to accompany this option. Suggested minors include environmental communication, environmental law/enforcement, forestry, forest recreation, international resource management, soil science, water resources, wildlife.
 - b. **Environmental Education and Interpretation**,
 - 1) **Admission requirements** in addition to those for all CNR programs. After you complete, or are currently enrolled in NRES 150, 151, 250, 251, Biology 101, or 130 and 160, Chemistry 101, or 105 and 106, submit an application to the resource management coordinator that includes (1) a current transcript, (2) a one- or two-page essay describing why you wish to become a professional environmental.

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educator/interpreter, and (3) a resume describing all your relevant work and organization experiences. The faculty will conduct interviews with all candidates and assign a rank based on GPA, essay, resume and interview. Candidates will be admitted based on ranking until available seats are filled. If you are denied admission, you may appeal. Contact the resource management coordinator for details. If you are not admitted, you will not be allowed to enroll in any of the professional courses in the EE/Interpretation option.

- 2) **Curricular requirements:** 58-68 credits: Biology 101, or 130 and 160; Biology 342, 377; Chemistry 101 or 105 and 106; English 363 or 392; NRES 301, 302, 368, 369 (5 cr), 476 (12 cr), 478; Philosophy 380; and 9 credits from Astronomy 311; Biology 308, 309, 355, 357 372, 374, 376, 378, 379, 388; NRES 390; Wildlife 372, 458.

c. **Land Use Planning, 56-66 credits:**

- 1) Required: Biology 101, or 130 and 160; Chemistry 101, or 105 and 106; Geography 476; Math 355; NRES 320, 371, 372, 388, 389, 484, 495; Soils 365.
- 2) Six credits from the following with 3 credits max in any one department:
 - (a) Law: Poli Sci 212, 242, 250 or NRES 473;
 - (b) Politics: Poli Sci 304 or 341;
 - (c) Sociology: SOC 300, 356, 357 or 358.
- 3) Three credits from Poli Sci 397, Econ 311, 374.
- 4) Specialty, 6 credits from one area:
 - (a) GIS/mapping: Geography 276, 379, 382; NRES 377.
 - (b) Forestry and landscape architecture: Forestry 232, 326, 330, 333, 385.
 - (c) Air, land, water resources: NRES 357, Water 382, Waste Mngt 380, 476.
- 5) Professional experience, at least 4 credits of NRES 381.

d. **Youth Programming and Camp Management (YPCM), 74-75 credits:**

- 1) Required: Biology 101, or 130 and 160; Business 380; Chemistry 101, or 105 and 106; Forestry 330 or 335; Human Development 265; NRES 281, 301, 302, 376, 382, 383, 320 or 478, 367 or 368; 2 credits from 369; Psych 110; Sociology 101; Sociology 225 or Psych 315; HP/W 102, Wellness 218 and 3 credits from Wellness 100-299.
- 2) Electives:
 - (a) Business, 3 credits from Business 100, 330, 340, 350, 352, 384, 385.
 - (b) Human development, 3 credits from HD 166, 261, 362, 367.
 - (c) Sociology/psychology, 3 credits from SOC 270, 316, 332, Psych 260, 320.
 - (d) Health/physical education, 3 credits from HLED 104, 140, 390, PEX 250, 315.
 - (e) First Aid/CPR, 2 credits from PED 252, 253, 254.

5. **Teacher Certification Emphasis**

If you seek certification to teach environmental studies at the secondary level, complete one of the above options and this emphasis, or the resource management minor in conjunction with another approved major.

- a. Teacher certification in secondary education (conservation) consists of 20 credits: Chemistry 105 or 115; NRES 301 and 302; and 9 credits from NRES 372, Geography 340, History 366, Philosophy 380, Poli Sci 304, Sociology 260.
- b. Also, complete the professional education sequence: Education 205, 337, 351, 381, 386, 390, and 398. Plus History 212 and 3 credits from History 120, 130, 211, 379, 382, 385; Instructional Resources 331; Poli Sci 201; one fine arts course; one humanities course that is literature.
- c. You must have a grade point average of 2.75 to student teach.
- d. Also see information about the Professional Education Program and the Secondary Education curriculum for teacher certification in the **Education** section of this catalog.

Environmental Communication Minor

Open only to majors within the College of Natural Resources. Others may request permission from the CNR assoc dean for academic affairs. It consists of 26 credits:

1. Required core, 11 credits: NRES 320, 368, 369.
2. Fifteen credits: 3-6 credits from Comm 240, 280; 9-12 credits from Comm 252, 322, 330, 342, 361, 365, 391, 394; English 354; Instructional Resources 331, 332.

Environmental Education/ Interpretation Minor

Consists of 27 credits. Open only to natural resources majors (other than resource management) and biology majors. Others may request special permission from the CNR assoc dean for academic affairs.

1. Required courses, 24 credits: NRES 301, 302, 368, 369, 374, 376, 478. If you are not a CNR major, you must also take NRES 150.
2. Electives: 3-6 credits from field courses selected in consultation with the coordinator of the minor.

Environmental Education Minor for Elementary/Middle School

Open only to students seeking teacher certification for ages six through 12-13. Consists of at least 24 credits from:

1. Environmental ed core: NRES 370, 376, 478.
2. Environmental science core, up to 14 credits. Take one course from at least three of the four areas below:
 - a. Biology 101
 - b. Chemistry 100 or 101.
 - c. Physics 101.
 - d. Geography 101.
3. Electives: Biology 305, Philosophy 380, other courses approved by adviser.

Enrollment caps are in effect for those seeking teacher certification. Please contact the Wisconsin Center for Environmental Education early for entrance requirements and application procedures. Also see information about the Professional Education Program and the secondary education curriculum for teacher certification in the **Education** section of this catalog.

Environmental Ethics

See *Philosophy*.

Environmental Law/Enforcement Minor

Complete one track:

1. Environmental law enforcement (warden) track, 24 credits: NRES 440, 473, 320 (or Comm 230), Sociology 230 and NRES 393 that consists of 12 credits from a 400-hour recruit training program offered by a state technical college and certified by the Wis. Law Enforcement Training and Standards Board.
2. Environmental law track, 21 credits: NRES 440, 473, 320 (or Comm 320); Philosophy 315 or 380; Poli Sci 212 and 304; Sociology 230.

Environmental Studies Minor

Administered by the College of Letters and Science. See description earlier in this catalog.

International Resource Management Minor

Consists of 22 credits for CNR majors and 32 credits for other majors:

1. Required courses:
 - a. NRES 323 and one of NRES 381 or 475 or 479 or study abroad in a non-English speaking country.
 - b. Complete one foreign language course beyond the second semester (102) college level.
 - c. One course from Sociology 270, 310, 322, 343, 355, 357; Econ 342 or 362 or 365; Geography 113 or 120.
2. Three credits from Anthropology 335; International Studies 101; Comm 336, 341; Econ 362, 367; Geography 300, 301, 327, 328, 340, 368; History 220; NRES 301, 478; Philosophy 380; Psychology 240, 321.
3. Non-CNR majors are also required to take: NRES 150, 151 and 250 or 251.

Land Use Planning Minor

Consists of 24 credits:

1. At least 9 credits from NRES 388, 474, 484, 495.
2. Soils 365 and Geography 476 and at least two of the following: Geography 276, 377 (or NRES 377), 379, 382, 479, NRES 444.
3. At least 3 credits from Econ 342; Poli Sci 212, 242, 250, 304, 341; Sociology 300, 356, 357.
4. Three credits (if 24 credits are not achieved from 1, 2, and 3 above) from Forestry 326, 330, 333, 385, NRES 320, 323, 357, 371, 372, 473, 477, 478, Water 382, Waste Mngt 380, 476, Wildlife 450.

Resource Management Minor

Consists of 23 credits including:

1. NRES 150, 151, 250, 251, 388 or 473, and 474.
2. Select remaining credits from CNR courses numbered 300 and above. For teacher certification you must take NRES 478.

Youth Programming and Camp Management Minor (YPCM)

Consists of 25-28 credits directed at the principles and practices of program planning, administration, and environmental education within youth agencies and camps.

1. Required courses, 16-19 credits: NRES 301 and 302 or 370, 281, 376, 382, 383.
2. Select 9 credits from at least two areas below or see the minor adviser for other options;

- a. Human Development 166, 261, 265, 362, 367.
 - b. Sociology 225, 270, 316, 332.
 - c. Psychology 260, 320, 315.
3. Recommended: See the minor adviser for information about related summer work experience or internship experience during your junior and senior years.

NATURAL RESOURCES COURSES

The major in *resource management* is described under that heading above.

NRES 100. Natural Resource Careers Workshop. 1 cr. Explore concepts and careers in natural resource management and environmental protection. Held at the Central Wisconsin Environmental Station. (SS)

NRES 110. Environmental Management for Homeowners. 2 cr. Practical, economical, environmentally sound considerations of water supply and quality; home and garden management; urban wildlife and forestry; waste disposal; energy conservation, landscaping, air quality.

NRES 150. People, Resources and the Biosphere. 3 cr. Global resource and environmental problems from a historic, socioeconomic, and biological perspective. (I, II) GDR:SS2 EL

NRES 151. Ecological Basis for Natural Resource Management. 3 cr. Basic principles of ecology and the application of those principles to management of natural resources. (I, II)

NRES 210. Safety Instructor Certification. 1 cr. How to teach courses in boating, hunter, and snowmobile safety, as prescribed by Dept of Natural Resources; related ethics and public controversies. Subtitle will designate area of certification. May repeat for max 3 cr with different subtitles. Prereq: Written cons instr. (I, II)

NRES 250. Introduction to Fisheries, Forestry and Wildlife Resources. 4 cr. Integrated introduction to principles and practices of fisheries, forestry and wildlife management, including production of goods and services while maintaining ecosystem integrity and functions; emphasis on contemporary issues. Prereq: 150, 151, or written cons instr. (I, II)

NRES 251. Introduction to Soil and Water Resources. 4 cr. Integrated concepts of soil and water resources at the landscape level. Physical, chemical, and biological interactions relating to watershed processes and response to land use and management. Prereq: 150, 151, Math 100, Chemistry 105 or con reg, or cons instr. (I, II)

NRES 281. Camp Leadership. 3 cr. Introduction to camp leadership and camp management. Camp management profession overview including history, diversity of camps, audiences served, career opportunities, professional associations. Basic concepts of camp organization, management and administration. Theory and practice of camp leadership including training camp counselors, relationship between counselor and camper, and development of program leadership skills (outdoor skills, aquatics, nature and environmental studies, arts and crafts). Readings, field trips, skills workshops. (I alternate years)

NRES 301/501. Foundations of Environmental Education I. 3 cr. Conceptual and philosophical basis for and goals of environmental ed; analysis of instructional materials; knowledge of learners; strategies for developing and implementing environmental ed programs; observation of instruction; Prereq: Jr st, CNR or biology major or written cons instr. (I)

NRES 302/502. Foundation of Environmental Education II. 3 cr. Application of environmental ed theory, philosophy, goals. Survey and use of environmental ed methods and resources. Development, application, evaluation of instructional plans and materials in formal/informal settings. Professional development and career opportunities in field. Prereq: 301/501. (II)

NRES 310/510. Environmental Education Teaching Methods. 1 cr. Strategies for teaching K-12 students about the environment using effective educational methods. Topics include environmental values and teaching problem-solving skills. Meets DPI certification requirement in environmental ed in conjunction with Geography 339 from UWEX (correspondence).

NRES 320/520. Natural Resources and Public Relations. 3 cr. Prepare natural resources specialists for involvement with various publics, including governmental agencies, boards, and committees, professional associations, and environmental societies; identify public relations techniques and methods of evaluating public input that are

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used by resource professionals. Prereq: CNR major or written cons instr. (I & II)

NRES 323/523. International Resource Management. 3 cr. Status and trends concerning the world's renewable natural resources with emphasis on ecological, socioeconomic and other factors influencing their management; role of natural resources in developing countries and international efforts devoted to their safeguarding and amelioration. Includes seminar on specific resource issues, countries or regions of the world. Prereq: 370 for non-CNR majors. (II)

NRES 335/535. Turf Management. 2 cr. Selection, establishment and management of turf grasses for parks, lawns and other recreational land uses. 1 hr lec, 2 hrs lab. Prereq: Summer Camp and/or cons instr. (I)

NRES 336. Integrated Pest Management Workshop. 1 cr. Recognition of weeds, insects, diseases, nutrient deficiencies, and other problems of agricultural and horticultural field crops. (II)

NRES 350. American Indian Reserved Treaty Rights. 3 cr. Technological, social, and economic aspects of hunting, gathering, and fishing rights; emphasis on current Wisconsin Chippewa experience.

NRES 357. Air Resources. 3 cr. Air chemical composition and reactions, air mass movement, contaminant transport, and meteorology. Air monitoring. Social and economic implications of air resource management technology. Prereq: CNR major or written cons instr. (I, II)

NRES 358/558. Biodiversity and Conservation Biology on the Web. 1 cr. Explore background information, discuss importance, research issues, investigate threats, review values, and examine solutions in biodiversity and conservation biology. Also the effects of economics, education, politics, and lifestyle. Prereq: On-campus students need cons instr.

NRES 363/563. Interpretive Signs, Trails, and Waysides. 1-2 cr. Design and produce interpretive signs, trails, and wayside exhibits for parks, recreation areas, natural areas, and other outdoor facilities. Prereq: 367 or 368 and CNR or biology major or written cons instr. (II)

NRES 364/564. Interpretive Publications. 1-2 cr. Design and produce interpretive publications for parks, nature centers, and natural resource agencies. Prereq: 367 or 368 and CNR or biology major or written cons instr. (II)

NRES 365/565. Interpretation for Visitor Centers. 3 cr. Develop and produce plans, exhibits and devices for visitor centers in parks, recreation areas, and natural areas. Visit area interpretive facilities. Prereq: 367 or 368 and CNR or biology major or written cons instr. (I)

NRES 367. Park Interpretation. 2 cr. Skills for interpreting a park or other recreational site to visitors. Practice in preparing and presenting interpretive talks and walks. Prereq: CNR or biology major or written cons instr. (I)

NRES 368/568. Oral Interpretation Methods. 3 cr. Principles and verbal techniques to relate the values of natural history and cultural features to visitors at parks, recreation areas, museums, and other institutions; walks, talks, and programming. Prereq: CNR or biology major or written cons instr. (I)

NRES 369/569. Interpretive Media. 3-5 cr. Principles and practice of design; writing and production of interpretive publications; trail and wayside interpretive panels; exhibits for parks, nature centers, other facilities. Includes desktop publishing and other digital technologies used to create interpretive media. 3 cr = 3 hrs lec; 4 cr = 3 hrs lec/2 hrs lab; 5 cr = 3 hrs lec/3 hrs lab. Prereq: 367 or 368.

NRES 370/570. Introduction to Environmental Study and Education. 3 cr. Natural, social, and economic factors influencing quality of our environment; ecological relationships and principles and their relation to population growth, pollution, resource allocation and depletion, conservation, technology, and urban/rural planning. Overview of K-12 environmental ed content and methods. Fulfills Wisconsin teacher certification requirements in environmental ed. Not open to CNR majors/minors. Prereq: Admission to School of Education or written cons instr. (I, II) GDR:EL

NRES 371/571. Resource Administration. 2 cr. Administrative principles and organizational structure of private, local, state, and federal resource agencies. (II)

NRES 372/572. Resource Economics. 3 cr. Fundamental economic concepts and their application to resource use; traditional and revised theories of land use; problems of land policy management. (I, II) GDR:SS2

NRES 373/573. Agronomy, Agriculture and Environment. 3 cr. Morphology and management of grain, forage and other crops in agricultural enterprises. Role of crops in causing environmental problems and in providing potential solutions. Prereq: CNR summer camp or cons instr. (I)

NRES 374/574. Environmental Interpretation Practicum. 3 cr. Practice planning and implementing interpretation programs, facilities, signage, exhibits, and publications for nature centers and park visitors. One 6-hr day per wk at Schmeckle Reserve. Prereq: NRES 367 or 368 and 363, 364, 365, or con reg, CNR or biology major or written cons instr. (I, II)

NRES 376/576. Environmental Education Practicum. 4 cr. Practical experience in environmental ed with K-12 students. Program and staff development, program planning, instruction and evaluation. One full day per wk. Prereq: 301 or 370, CNR or biology or education major with environmental ed minor or written cons instr. (I, II)

NRES 377/577. Air Photo Interpretation. 3 cr. Introduction to air photo use and interpretation to inventory forest, soil, water, and wildlife resources; to identify and evaluate indicators of pollution and related evidences of environment degradation. 2 hrs lec, 2 hrs lab per wk. May not earn credit in both NRES 377 and Geography 377. (I, II)

NRES 378. Introduction to Minerals Technology. 3 cr. Survey of extractive and processing systems used in mining, mineral dressing, and metallurgical industries. Prereq: Chemistry 105 or 115; Geology 104. (On demand)

NRES 380/580. Energy Education: Concepts and Practices. 1-3 cr. Web-based course addressing energy concepts in one credit modules. Take for 3 cr max. (1) Energy definitions, natural laws of energy, and energy flows in living/nonliving systems. (2) Development and effects of energy use. (3) Management of energy resources.

NRES 381/581. Internship in Natural Resources. 1-12 cr. Supervised training program in resource management in cooperation with private or public resource agencies. One cr for 2-4 wks, (40 hrs per wk) of work. Credits and/or addl requirements determined by instructor before registration. May repeat once for 12 cr max. Prereq: Forestry 319, 320, Soils 359, 360, Wildlife 340, Water 380 or NRES 475; and/or cons intern director, CNR major or written cons instr; if land use planning major, you also need NRES 388 and 389. (I, II, SS)

NRES 382/582. Youth Agency Administration. 3 cr. Survey of youth agencies including purpose, historic background, community role, development, and organization; analysis of administrative structure, programming, management, policy and volunteering board development, career opportunities, and issues confronting nonprofit youth agencies. (I, alternate years)

NRES 383/583. Nature Center and Camp Management. 3 cr. Principles and practices for planning, organization, and administration of nature centers and youth camps. Management of day and residential facilities analyzing issues of the master planning process, public relations, staff supervision, marketing techniques, fiscal and site management. (II, alternate years)

NRES 385. Field Techniques in Forestry, Soils, Water, and Wildlife. 2-3 cr. Field techniques used to manage and evaluate forestry, soils, water, and wildlife resources. Prereq: NRES 150, 151, 250, 251. (SS)

NRES 388/588. Urban and Regional Planning Practice. (formerly 480/680) 3 cr. History and analysis of major current problems facing public and quasi-public planning agencies; review of past, current, and possible solutions in area resource management (I)

NRES 389/589. Land Use Planning and Project Impact Analysis. 3 cr. Systematic methods, techniques, and tools for urban and regional land use planning analysis on a communitywide scale in addition to understanding fiscal, social/aesthetic, traffic, economic and environmental impacts of development proposals for specific sites. Prereq: 388. (II)

NRES 390/590. Nature Interpretation in Central Wisconsin. 0-3 cr. How to interpret major ecological communities of Central Wisconsin, their relationship to landforms and climate, key plants and animals, their interrelationship and the effect of human activities. Subtitle will designate seasonal emphasis. May repeat for credit with different subtitles. Pay audit fee for 0 credits. (On demand)

NRES 393. Environmental Law Enforcement. 1-12 cr. Pass/fail. Environmental law enforcement practices including search, seizure, ballistics, criminal codes, evidence collection and preservation, and emergency procedures. Fulfills State of Wis. Law Enforcement Standards Board requirements. Offered with state vocational and

technical colleges. Prereq: CNR major or written consent of CNR assoc dean and declared environmental law/enforcement minor.

NRES 395. Introduction to Environmental Study. 3 cr. Natural, social, and economic factors influencing the quality of our environment; ecological relationships and principles and their relation to population growth, pollution, resource allocation and depletion, conservation, technology, and urban/rural planning. Not open to CNR majors or minors. GDR:EL (I, II)

NRES 400/600. Wisconsin Environmental Studies. 1 or 3 cr. Wisconsin's natural, social, and economic factors influencing quality of environment; ecological relationships and principles and their relation to population growth, pollution, resource allocation and depletion, conservation, technology, and urban/rural planning. Prereq: For K-12 educators. On-campus students need cons instr. For 1 cr, view video segments and complete self-instructional guide. For 3 cr, full participation in videos, ETNs, and assignments.

NRES 403/603. Environmental Education Curriculum Resources. 1-3 cr. Identify, evaluate, and apply instructional resources for K-12 environmental ed. Subtitle will designate resource. May repeat for 3 cr max. Prereq: CNR major or written cons instr.

NRES 405/605. Selected Topics in Natural Resources. 1-3 cr. Major concepts and problems in an area of natural resources. May repeat for credit with different subtitles. Prereq: Cons instr. (I, II)

NRES 410/610. Selected Topics in Environmental Education. 1-3 cr. Environmental concepts/issues with emphasis on K-12 teaching methods. May repeat for credit with different subtitles.

NRES 411/611. Principles of Environmental Education. 1 cr. Philosophy, goals, curricula, and resources for environmental ed.

NRES 412/612. Ecological Basis for Environmental Education. 1 cr. Basic ecological concepts and their relationship to understanding and evaluating environmental issues. Prereq: 411/611 or cons instr.

NRES 413/613. Citizen Action in Environmental Education. 1 cr. Strategies for involving K-12 students in citizen action on environmental issues. Prereq: 411/611 and 412/612 or cons instr.

NRES 414/614. Environmental Education Teaching Strategies. 1 cr. Planning and evaluation of environmental ed curriculum materials and teaching methods. Prereq: 411/611 and 412/612 or cons instr.

NRES 415/615. Investigation and Evaluation of Environmental Education Curriculum Resources. 1 cr. Investigate, evaluate, and apply instructional resources for K-12 environmental ed. Resources include curriculum, print, audiovisual materials, computer software and networks, organizations, people and places. Culminating project links resources encountered to grade level taught and individual areas of interest.

NRES 440/640. Environmental Law Enforcement Theory and Principles. 3 cr. Overview of environmental law enforcement activities emphasizing theoretical basis for current enforcement practices. Prereq: Poli Sci 212, or Sociology 230, CNR major or written cons instr. (I)

NRES 444/644. Integrated Spatial Information Systems for Natural Resources Management. 3-4 cr. Survey of modern spatial technologies for natural resources management and environmental protection. Integrate use of GIS, GPS, remote sensing, Internet, and environmental modeling for natural resources applications. 2 hrs lec, 3-4 hrs lab per wk. Prereq: Summer camp, CNR major, Geography 279, or written cons instr. (II)

NRES 457/657. Ecological Monitoring. 3 cr. Theory and practice of ecological monitoring emphasizing ecosystem structure, functions, and populations. Prereq: Forestry 321 and 332, or cons instr.

NRES 458. Biodiversity and Conservation Biology. 3 cr. Theoretical framework for identifying threats and solutions to long-term preservation of species and biological communities; includes concepts from traditional ecology, landscape ecology, population ecology, genetics, sociology and economics. Prereq: Biology 305 (I)

NRES 459/659. Ecosystem Management and Restoration. 3 cr. Methods for managing and restoring ecosystems for biological diversity and sustainable use. Prereq: 458 or Wildlife 458, CNR major or written cons instr. (II)

NRES 460. People and Ecosystems. 4 cr. Interactions between people and ecosystems and dependency of the health and sustainability of each upon the other. May not earn credit in both NRES 460 and HP/W 460. Prereq: Jr or sr st; application and cons instr. (II)

NRES 462/662. Adaptive Resource Management. 1 cr. Theory and practice of adaptive management. Methods of integrating social attitudes and values into science-based decision making in natural resources. Prereq: 474/674, or cons instr.

NRES 473/673. Resource Policy and Law. 3 cr. The need for, purposes, making, and implementation of natural resources legislation and policy. Prereq: CNR major or written cons instr. (II)

NRES 474/674. Integrated Resource Management. 3 cr. Current issues, problems, trends in integrated management of resources; principles used to form and implement natural resources policy. Prereq: NRES 150, 151, 250, 251; CNR major or written cons instr. (I, II)

NRES 475/675. European Environmental Studies Seminar. 1-8 cr. Survey environmental problems and programs in Europe; compare with U.S. environmental and natural resource issues. Alternative to Treehaven summer camp. Consists of 1 cr spring orientation, 2 wk CWES summer camp, 4-6 wks in Germany and other countries. Prereq: NRES 250, 251, 2.00 GPA in major and cons instr. (II,SS)

NRES 477/677. Environmental Impact Statement (EIS) Development. 1 cr. Laws and regulations controlling EIS development; case studies; prepare and present an EIS. (I, II)

NRES 478/678. Environmental Issues Investigation and Action. 3 cr. Rationale and strategies for investigating environmental issues at local, state, regional, or national levels; selection and implementation of actions to resolve issues through political, economic, legal, educational, and lifestyle avenues. Group project. Prereq: 370 or 395, CNR or biology major or written cons instr. (II)

NRES 479/679. International Environmental Studies Seminar. 1-6 cr. Subtitle indicates country or region of the world. Survey ecosystems and environmental and natural resource programs and issues in a country or region. Prereq: Written cons instr.

NRES 482. Environmental Education and Interpretation Practicum. 12 cr. Practical experience in environmental education/interpretation in planning and implementing programs for K-12 school groups, public programs for visitor and nature centers, and nonpersonal interpretive services. Meets Monday thru Friday with some weekend activities. Prereq: All requirements for EE/Interp option or cons instr.

NRES 484/684. Air, Water, and Land Use Planning. 3 cr. Review federal and state natural resource planning strategies for implementing plans in local communities. Prereq: 388, 474, CNR major or written cons instr. (II)

NRES 490. Integrated Resource Management Seminar. 2 cr. Interdisciplinary teams will investigate natural resource issues and problems, and develop, present, and defend plans. Prereq: Sr st for majors or minors in natural resources. (I, II)

NRES 491. Seminar in Conservation Biology. 1 cr. Outside speakers on practical economics, administration, and management of ecosystems for biodiversity. (II)

NRES 493/693. Environmental Field Seminar. 1-2 cr. Survey environmental problems and programs in selected regions of the United States. Prereq: Cons instr. (On demand)

NRES 495/695. Ecological Basis for Planning and Design. 3 cr. Ecological principles, relationships, and interaction between natural and man-made elements of the environment. Prereq: 474/674 or cons instr. (II)

NRES 499. Special Work. Upperclass natural resources majors and minors doing above average work may arrange for independent study with cons of assoc dean. Credit based on scope of project. Prereq: 2.50 GPA in major. (I, II)

NRES 701. Readings in Environmental Education. 1-3 cr. Readings on history, philosophy, practices, methods, and issues of environmental education. Assignments vary depending on credits.

NRES 703. Leadership Development in Natural Resources. 1 cr. Assessment and experiences to develop leadership capacity in natural resources organizations. Individual and small group activities to explore current theories and practices in leadership and implications for successful organizational and personal development.

NRES 704. Ecological Lifestyles. 1 cr. Examine personal lifestyles in light of ecological consideration. Identify ecologically sound lifestyles that foster environmental quality and quality of life. Prereq: 570 or con reg; 611, 612, and 613 or con reg.

NRES 705. Environmental Issues Investigation and Action. 1 cr. Use primary and secondary information sources for investigating environmental issues. Strategies for issue analysis and resolution. May not

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take both 705 and 478/678. Prereq: 570 or; 611 and 612 and 613; or con reg.

NRES 706. Community Resources in Environmental Education. 1 cr. Explore variety of human, cultural, technological, and natural resources to enrich environmental ed curricula; field trips to integrate environmental ed with classroom instruction. Prereq: 570 and 614 or; 611, 612, 613, and 614.

NRES 707. Computer Use in Environmental Education. 1-2 cr. Use computer technology to enhance environ ed instruction. Includes 1) environmental ed software, 2) word processing, database, and spreadsheet applications, 3) computer networks, 4) environ interactive videodiscs, and 5) environmental ed hypercard stacks. Prereq: 570 and 614 or; 611, 612, 613, and 614, and computer experience.

NRES 708. Outdoor Teaching Sites for Environmental Education. 1 cr. Relationship of current environmental ed developments to outdoor teaching sites. Philosophy, design, construction, and use of outdoor teaching sites, especially schools and school forests. Practical experiences in developing outdoor teaching site strategies.

NRES 709. Wisconsin Lakes Resources. 1 cr. Overview of natural, social, and economic factors influencing the management and quality of Wisconsin lakes.

NRES 715. Plant Resources and Humans. 1 cr. Explore how continued existence of humans is linked to conservation of plant diversity; use of plant resources to provide food, medicine, fiber, shelter and other needs of past and present cultures throughout the world; evolutionary ecology of domesticated plants; preservation of traditional knowledge of useful plants; conservation strategies/ techniques for maintaining plant diversity for future generations.

NRES 720. Advanced Topics in Natural Resources and Public Relations. 1-2 cr. Rationale and techniques for creating positive public relations for natural resource professionals and their work. Includes public relations theory and tools for disseminating research information to effect appropriate policy decisions. Create a product to introduce your research project through television, magazines, and the Internet. Prereq: Defined thesis topic with research underway.

NRES 730. Wisconsin K-12 Energy Education Program (KEEP) I. 1 cr. Hands-on activities, discussions, classroom application and assignments to help teachers analyze energy information and create strategies and techniques to enhance understanding of what energy is, where it comes from, and how it affects our lives. Includes copy of KEEP energy education activity guide and other materials. Applicable for infusion across K-12 curriculum.

NRES 731. Wisconsin K-12 Energy Education Program (KEEP) II. 1 cr. Builds on KEEP I. Hands-on activities, discussions, and classroom application to help teachers analyze energy information and create strategies and techniques to enhance understanding of energy. Highlight specific topics such as energy efficiency or renewable energy. Includes updates to KEEP guide and other materials. Applicable for infusion across K-12 curriculum. Prereq: 730 and cons instr.

NRES 733. Energy Education Concepts and Practices. 1-3 cr. Concepts relating to energy definitions, natural laws of energy and energy flows in living and nonliving systems, and their relationships to understanding and evaluating environmental issues. Analyze concepts and synthesize strategies and activities applicable to the classroom. May repeat for 3 cr max.

NRES 740. Forestry Education for Wis K-12 Classroom. 1 cr. Principles, activities, techniques for K-12 teaching about importance of forests to our ecological, economic, and social well-being. Includes LEAF Program Forestry Education Guide.

NRES 741. Teaching K-12 Forestry Topics. 1-3 cr. Materials and methods to teach K-12 students about current forestry topics, concepts, issues. May repeat for credit with different subtitle. Prereq: 740, con reg, or cons instr.

NRES 742. School Forest Programs and Administration. 1 cr. Planning and administration of Wis School Forest Program. Organize school forest committee, understand property management plans, develop educational plans, locate resources/financial support. Class and Web instruction.

NRES 743. Human Influence on Wis Forests. 1 cr. Wis forest resources and role they play in our past, current and future ecological, economic and social well-being. For K-12 teachers. Web course.

NRES 744. Land and Its Human Uses. 1 cr. Uses of land emphasizing decision making by private owners and local/state governments. Prereq: Certified elementary and secondary teachers.

NRES 750. Research in Environmental Education and Interpretation. 1 cr. Discussion of research methods, relevant literature, and current issues in environmental ed and interpretation. May repeat for 4 cr max. (I, II)

NRES 760. Grant and Proposal Development. 1-3 cr. Development of a systematic approach to winning grants from corporate, foundation, and governmental sources.

NRES 771. Environmental Futures. 1 cr. Understand and apply techniques used in future studies to identify and analyze how social, scientific, and technological developments may shape the future of human interactions with the natural environment.

NRES 791. Introduction to Research. 1 cr. Explore role and value of research in society, and the ways scientific knowledge accumulates. Directed work in preparation of study plans (thesis or project proposals) and presentation of research findings. (I)

NRES 794. Graduate Seminar. 1 cr. Discussion of selected environmental and natural resource topics. Required of CNR graduate students every semester except when presenting a 795 seminar. (I, II)

NRES 795. Graduate Seminar. 1 cr. Student presentation and discussion of selected environmental and natural resource topics including results of student research. (I, II)

NRES 796. Independent Study. 1-3 cr. Advanced work on a specific natural resource problem. (I, II, SS)

NRES 797. Research Methods, Design and Analysis. 3 cr. Statistical methods of experimental design and analysis for research in natural resources. Prereq: Math 355 or Forestry 321 or cons instr. (I)

NRES 799. Thesis. (Not on Plan B.) 2-6 cr. (I, II, SS)

Natural Resources Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

171 Elementary Surveying, 3 cr, (01-03)

194/294/394/494: Native American Lands Seminar, 1 cr.

330/530 Environmental Health, 1-3 cr, (01-03)

375/575 Environmental Field Studies, 3 cr, (91-93)

770 Evolution of Wis Natl Resource Policy, 3 cr, (01-03)

Natural Resources Field Seminar Program

The field seminar program acquaints you with research and management activities not available through campus and summer camp experiences. The program consists of extended tours of areas and facilities pertinent to the appropriate resource discipline. The following field seminar courses are described fully under the same headings in the regular course listings:

FOR 493/693, Forestry Field Seminar, 1 or 2 cr.

NRES 475/675, European Environmental Studies Seminar, 1-8 cr.

NRES 479/679, International Environmental Studies Seminar, 1-6 cr.

NRES 493/693, Environmental Field Seminar, 1 or 2 cr.

SOIL 493/693, Soils Field Seminar, 1 or 2 cr.

WLDL 493/693, Wildlife Field Seminar, 1 or 2 cr.

Natural Resources Summer Camp Program

The summer camp program consists of Forestry 319, 320, Soils 359, 360, Water 380, and Wildlife 340, and NRES 405, each for 1 credit. See the description of these courses under the appropriate heading.

PAPER SCIENCE

The major in paper science, administered by the College of Natural Resources, is described under the section **Paper Science** later in this catalog.

RESOURCE MANAGEMENT

See **Human Dimensions of Natural Resource Management** earlier in this section.

SOIL & WASTE RESOURCES

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Definition: Soil and waste resources trains students in the inventory, scientific principles, and management of these resources. It includes soil conservation, soil mapping and classification, nutrient management in agriculture, wastewater treatment, solid waste and hazardous waste management and recycling, septic systems, and wetlands.

Academic Standards

To graduate with a major or minor in soil and waste resources you must have a minimum cumulative grade point average of 2.25.

Soil and Waste Resources Major

Consists of 133 credits.

1. Required, 22 credits: NRES 150, 151, 250, 251, 490; Soils 364, 365.
2. Collateral courses, 17 credits: Chemistry 105 and 106 (or 114, 115 and 116); Geology 104; Math 100.
3. Complete ONE option below:
 - a. **Soil and Land Management**
 - 1) Required, 39 credits: Soils 362, 363, 381, 461, 465; NRES 320 or English 254 or 354; NRES 336, 372, 373, 473 or 474 or 478 or 484; Water 389; Waste 380 or 488; 6 credits from Soils 350, Water 350, 450-458 or Wildlife 360, or Waste 350.
 - 2) Collateral courses, 15 credits: Biology 130, 160; Geography 279, 377 or 379 or 476.
 - 3) Summer Camp, 7 credits: Forestry 319, 320; Soils 359, 360; NRES 405; Water 380; Wildlife 340; or 8 credits of NRES 475.
 - b. **Soil Science**
 - 1) Required, 15 credits: Soils 362, 461, 465; NRES 372, and Waste Mngt 380 or 488.
 - 2) Collateral courses, 42 credits: Biology 130, 160, 351; Chemistry 220, 248; one add 300-400 level geology or physical geography course or NRES 377 or 444; Math 111 or 120, 355 or Forestry 321 or NRES 373; Math 112 or 119; CIS 102 or 373 or Geography 279; Physics 201 and 202.
 - 3) Summer Camp, 7 credits: Forestry 319, 320; Soils 359, 360; NRES 405; Water 380; Wildlife 340; or 8 credits of NRES 475.
 - c. **Waste Management**
 - 1) Required, 24 credits: Soils 461 or 465; Waste Mngt 380, 381, 476, 488; Water 383; 6 credits from Soils 350, or Water 350, or Waste Mngt 350, or Waste Mngt 487.
 - 2) Collateral courses, 22-25 credits: Biology 101, and 305 or 333; Chemistry 220; Math 111 or 120; Physics 101, or 201 and 202; CIS 102.
 - 3) Two credits of NRES 385.
 - 4) Complete ONE track below:
 - A) Communication, Business, Political Science track:** 12 credits. (a) Comm 230 or NRES 320; (b) English 354; (c) 3 credits from CIS 365 or 372, NRES 444, Geography 476; (d) 3 credits from Poli Sci 242, 250, 304, 356, 358, Business 380, 384, Econ 311,

NRES 372 or Econ 210, Philosophy 380, NRES 474 or 484 or 495.

- B) Technical track:** 12 credits from Water 389, 475, 480, 481, 482, 494, NRES 357, 474, 484, 495, Soils 362, 363, 461, 465.
- 5) We strongly recommend that you complete a minor in business or communication or water resources.

Whether you are a major or minor, check with a soils adviser to determine the minimum core course requirements you need for certification as a professional and/or to take state or national exams or to obtain licenses.

Soil Science Minor

Consists of 22 credits with at least 15 credits of soils courses:

1. Required: NRES 251; Soils 362 and at least two of the following: Soils 364, 365, 465 (Forestry majors may substitute Soils 361 for one of these).
2. Select the remaining credits from: Soils 359, 360, 361, 363, 364, 365, 461, 465; Forestry 325, 332; Geography 279, 352, 377 (or NRES 377), 379, 476; Geology 200, 370; NRES 335, 336, 373, 444, 484; Waste Mngt 380, 476; Water 383 (or Geology 383), 487 (or Geology 487), 493; Wildlife 451. Other courses approved by assoc dean for academic affairs.

The soil science minor satisfies the minimum civil service requirements for soil scientist positions (classification and mapping) in federal agencies such as the Natural Resources Conservation Service and the Forest Service. For a soil conservationist position, NRES 373 is recommended.

Soil Science Concentration in the Business Administration Major

See **Business and Economics**.

Courses in Soils

SOIL 350/550. Selected Topics in Soil and Waste Resources. 1-3 cr. Selected principles, practices, issues in soil and waste resources. May repeat under different subtitles. May apply 3 cr max to major. (I, II)

SOIL 359. Soil Conservation and Watershed Inventory Techniques. 1 cr. Field techniques of land surface relief inventory, soil percolation, watershed interpretive systems for runoff prediction, and groundwater characteristics investigation for integrated resource mngt. Prereq: NRES 251, 2.00 GPA in major, CNR major or written cons instr. (SS)

SOIL 360. Field Experience in Soil Inventory Methods. 1 cr. Techniques in describing, mapping, classifying, and interpreting soils for integrated resource mngt. Prereq: NRES 251, 2.00 GPA in major, CNR major or written cons instr. (SS)

SOIL 361/561. Forest Soils. 3 cr. Characteristics of and processes in soils under forest cover; relationships of these to forest growth, productivity, and management practices; human impacts. 2 hrs lec, 3 hrs lab per wk. Prereq: NRES 251, Summer Camp, CNR major or written cons instr. (II)

SOIL 362/562. Soil Genesis and Morphology. 3 cr. Geologic origin, characteristics, and taxonomic grouping of soils; survey methods and mapping procedures. 2 hrs lab, 2 hrs lab per wk. Prereq: Summer Camp, CNR major or written cons instr. (II)

SOIL 363/563. Soil Profile Description Writing. 2 cr. Field identification of soil layers and the preparation of official morphological descriptions of soil profiles and associated site factors. 1 hr lec and 2 hrs lab per wk. Prereq: Summer Camp or cons instr. (I)

SOIL 364/564. Soil and Plant Analysis. 3 cr. Sample, prepare, and analyze soil and plants. Interpret chemical results for environmental quality and soil fertility management. Choose analytical methods and maintain laboratory quality control. 2 hrs lec, 3 hrs lab per wk. Prereq: Chemistry 116 or 106, CIS 102-spreadsheet or equiv, Summer Camp, CNR major or written cons instr. (I, II)

SOIL 365/565. Soil Survey Interpretations for Land Use Planning. 3 cr. Apply soil survey information to make interpretations for various

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land uses such as agriculture, sanitary facilities, building sites, woodland, construction materials; identify the limitations and suitability of soils for specific planning purposes. 2 hrs lec, 2 hrs lab per wk. Prereq: Summer Camp, CNR major or written cons instr. (I)

SOIL 381/581. Internship in Soils. 1-12 cr. Supervised training program in soils management in cooperation with private or public resource agencies. One credit for 2-4 wks (40 hrs per wk) of work. Credits and/or addl requirements determined before registration. May repeat once for 12 cr max. Prereq: Forestry 319, 320, Soils 359, 360, Wildlife 340, and Water 380; or NRES 475; 2.00 GPA in major; and/or cons intern director; CNR major or written cons instr. (I, II, SS)

SOIL 455/655. Sediment Control and Site Restoration at Water Crossing Facilities. 1 cr. Designing and installing sediment control techniques at culverts, bridges, and other water-crossing structures to protect fish and other aquatic biota. Prereq: 461 or con reg, admission to CNR, cons instr.

SOIL 456/656. Erosion Control and Slip Stabilization in Construction Activities. 1 cr. Natural and technical approaches to retaining soil on site in construction activities. Includes considerations in hydraulic mulching, erosion control materials, fertilizers and species selection for revegetation. Prereq: 461 or con reg, admission to CNR, cons instr.

SOIL 457/657. Bio-engineering in Streambank and Channel Restoration. 1 cr. Design, installation and construction of bank reinforcement techniques using vegetation and associated structural materials. Prereq: 461 or con reg, admission to CNR, cons instr.

SOIL 458/658. Design and Construction of Sediment Control Structures. 1 cr. Design and construction of sediment basins, and design and installation of sediment control structures such as silt fences, berms, and buffer strips. Prereq: 461 or con reg, admission to CNR, cons instr.

SOIL 461/661. Soil Management for Resource Sustainability. 3 cr. Use soil fertility, plant nutrition, wind and water erosion, and surface and groundwater contamination abatement principles in solving soil and crop management problems. 2 hrs lec, 3 hrs lab per wk. Prereq: Summer Camp, CNR major or written cons instr. (II)

SOIL 465/665. Soil Physics. 3 cr. Basic concepts and principles related to the state and transport of matter (especially water) and energy in the soil. Physical measurement and mathematical quantification of soil physical properties and processes. 2 hrs lec, 3 hrs lab per wk. Prereq: Math 111 or 120, Physics 201, CIS 102 (spreadsheet or equiv), Summer Camp, CNR major or written cons instr. (I)

SOIL 496. Computer Software Application for Soils. 1 cr. Subtitle will designate type of software. May repeat for credit with different subtitle. Prereq: CIS 101 and 102 or cons instr.

SOIL 499. Special Work. Upperclass soil science students may arrange for independent study with cons assoc dean. Credit based on scope of project. Prereq: Summer Camp or cons instr. (I, II)

SOIL 760. Advanced Forest Soils. 3 cr. Advanced topics on relationships between soil properties and silviculture, forest hydrology, and nursery management. Prereq: 361/561 or cons instr. (On demand)

SOIL 761. Advanced Soil Management. 1-3 cr. Advanced topics in principles of soil, water, plant relationships. Prereq: 461/661 or cons instr. (On demand)

SOIL 762. Advanced Soil Genesis, Mineralogy, and Classification. 3 cr. Processes and theories of soil information; principles and systems of soil classification. Prereq: 362/562 or cons instr. (On demand)

SOIL 763. Soil Resource Issues. 1-3 cr. Investigate issues such as food production vs. population growth, soil quality, soil erosion, point and nonpoint pollution; identify policies and agencies that are involved. Prereq: Certified elementary/secondary teachers only.

Soils Latent Course: Not offered recently. Full description in (xx-xx) catalog.
260 Introduction to Soil Resources, 4 cr. (97-99)

Courses in Waste Management

WSTE 350/550. Selected Topics in Soil and Waste Management. 1-3 cr. Selected principles, practices, and issues in soil and water resources. May repeat under different subtitles. May apply 3 cr max to major. (I, II)

WSTE 380/580. Solid Waste Management. 3 cr. Characterization, collection, recycling/disposal of municipal, industrial, and agricultural

wastes, with emphasis on environmental effects related to disposal. 2 hrs lec, 2 hrs lab per wk. Prereq: CNR major or written cons instr. (I)

WSTE 381/581. Internship in Waste Resources. 1-12 cr. Supervised training program in waste resources mgnt in cooperation with private or public resource agencies. 1 cr for 2-4 wks (40 hrs/wk) of work. Credits and/or addl requirements determined before registration. May repeat once for 12 cr max. Prereq: Waste 380 or 476 or 488; CNR major or written cons instr. (I, II, SS)

WSTE 476/676. Hazardous Waste Management. 3 cr. Chemical, biological, and technical aspects of hazardous waste management; regulations concerning the classification, treatment, and disposal of hazardous waste; environmental health and safety issues. 2 hrs lec, 2 hrs lab per wk. Prereq: 380 or cons instr; Chemistry 116 or 106; Biology 101 or 130; CNR major or written cons instr. (II)

WSTE 487. Senior Thesis. 3 cr. Conduct independent research under direction of faculty member. Present research results at CNR undergraduate research symposium or a professional conference. Prereq: Sr st and overall GPA of 3.0 or higher.

WSTE 488/688. Water and Wastewater Treatment. 3 cr. Nonengineering approach to methods of water treatment, routine lab testing, and protection of systems; domestic waste disposal by water carriage and nonwater carriage methods; small unit and municipal disposal methods. Prereq: CNR/biology major or written cons instr. (II)

WSTE 489. Industrial Environmental Management. 3 cr. Regulations, economic, and technical aspects of industrial waste (air, water, solid, and hazardous) generation, alternative methods of treatment, and release of treated materials to the environment. Does not count toward waste major. Prereq: Math 120, Chemistry 106.

WATER RESOURCES

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Academic Standards

To graduate with a major or minor in water resources you must have a minimum cumulative grade point average of 2.00.

Water Resources

The water resources major prepares you for careers and graduate studies in fisheries, aquatic biology, hydrology, hydrogeology (groundwater), laboratory analysis of water and environmental samples, aquatic toxicology, and the assessment and management of water resources.

Limnology and Fisheries

The limnology and fisheries option concentrates on the aquatic biology, fisheries and ecological characteristics of streams, lakes, wetlands, and groundwater. The option prepares you for careers as aquatic resource managers.

Limnology graduates are usually employed with state, federal, municipal or private agencies and are involved in lake and stream water quality assessment, stream habitat restoration, lake management, bio-monitoring and water quality classification, urban limnology and productivity.

Fisheries graduates are normally employed by environmental consulting firms or by state, tribal or federal resource management agencies and are involved in manipulating fishery resources through regulating human use, managing aquatic habitat, and stocking.

With a BS degree in limnology and fisheries, you may expect to begin your professional employment as a limited

term employee. An MS degree will greatly increase employment potential in both limnology and fisheries and provide greater job responsibilities.

Watershed Hydrology and Management

The watershed hydrology and management option concentrates on the relationship between activities on the landscape and the physical, chemical and biological quality of the streams, lakes, wetlands, and groundwater in the watershed. If you graduate with this option, you meet the academic requirements for (1) a license as a Wisconsin professional hydrologist, (2) the position of "hydrologist" under federal Office of Personnel Management guidelines, and (3) American Institute of Hydrology professional hydrologist registration. You may also choose to pursue graduate degrees in environmental engineering or other science areas.

Watershed management deals with land resources and land uses to protect and/or enhance the quality and productivity of the streams, lakes, wetlands, and groundwater in the watershed. If you complete this emphasis with a soil science or forestry minor, you will meet the federal Office of Planning and Management guidelines for listing as a soil scientist or forester.

Water quality monitoring and assessment provides you with professional capabilities to monitor, interpret, and communicate water quality conditions at the watershed scale. You will develop professional skills through foundational coursework, the use of extensive laboratory facilities, real-world watershed assessment experience, and interaction with practicing professionals. Your adviser will help you choose a specialty of landscape-level/water quality assessment, water chemistry, or environmental toxicology.

Groundwater hydrology (hydrogeology) is the science of underground water: how it originates as precipitation percolating through the soil, moving through the subsurface, and eventually feeding streams and lakes. Groundwater hydrology encompasses the management of groundwater quality and pumping for human and ecosystem needs.

Watershed administration concentrates on developing a strong background in basic science and water resources with supporting skills in communication, planning and administration. With a BS degree in watershed administration you can expect to find positions with drainage basin management teams, and with state, federal, and private interests involved with resource planning and management.

Water Resources Major Core

Major consists of 133 credits including this 48 credit core.

1. CNR courses, 19 credits: NRES 150, 151, 250, 251, 372, 490.
2. Physical science, 7 credits: Water 389; Geology 104.
3. Chemical science, 14 credits: Chemistry 105 and 106; Water 480.
4. Biological science, 8 credits: Biology 130 or 160; Water 481.
5. Complete ONE of the following options.

Option 1: Limnology and Fisheries Requirements

1. Required, 53 credits: Biology 130 or 160 (whichever was not taken as part of the core), 210, 281 or 285, 305, 361 (or Water 387), 374; Chemistry 325; Math 111 or 120, 355; Philosophy 380; Physics 201 and 202; Water 353, 483 or 381, 484.
2. Electives: 3-4 credits from Water 338 (or Biology 338), 387, 482, 485, 493, Biology 347, 361, 375.
3. Professional field experience: Option A or C.

Option 2: Watershed Hydrology and Management (WHAM) Requirements

Consists of 45 credits:

1. Required, 27 credits: Chemistry 325; Water 487; Math 120, 121, 355; Geography 279; Physics 201 and 202.
2. Complete one of the following emphasis areas.
 - a. Watershed management.
 - 1) Required, 19 credits: Water 350 (2 cr), 382, 482, 493; NRES 377 or Geog 377; Biology 130 or 160 (whichever was not taken in the major core above).
 - 2) Professional field experience: Option A or C.
 - 3) Use remainder of 133 credits to satisfy a minor in soil science, land use planning, GISSA, forestry, or other combination of courses with adviser approval.
 - b. Water quality monitoring and assessment.
 - 1) Landscape-level/water quality assessment track.
 - (a) Chemistry minor including Water 487 and 492.
 - (b) GISSA minor, or soil science minor with adviser approval.
 - (c) Professional field experience: Option A, B, or C with adviser approval.
 - (d) Satisfy remainder of 133 credits with combination of courses approved by adviser.
 - 2) Water chemistry track.
 - (a) Chemistry minor including Water 487 and 492.
 - (b) Water 382 (1 cr), 383, 479, 492, 493.
 - (c) Professional field experience: Option A, B, or C with adviser approval.
 - (d) Satisfy remainder of 133 credits with combination of courses approved by adviser.
 - 3) Environmental toxicology track.
 - (a) Chemistry minor including Water 487 and 492.
 - (b) Biology 130 or 160 (whichever was not taken in the major core above).
 - (c) Two courses from Biology 338, 374 or Water 387.
 - (d) Water 482, 494, 496.
 - (e) Professional field experience: Option A, B, C, or E with adviser approval.
 - c. Groundwater hydrology (hydrogeology).
 - 1) Water 383 and 495; Geology 106, 200, 330, 352 or 370, 385, Water 479, Soils 465.
 - 2) Professional field experience: Option A, B, C, D, or E with adviser approval.
 - d. Student designed program: with water resources faculty approval, you may design an individual track to fit your needs and interests.

Option 3: Watershed Administration Requirements

1. Biology 130 or 160, whichever was not taken as part of the core; Economics 342; English 354; Geography 279, 377, 476; Math 111 or 120; NRES 320, 474, 477; Soils 365; Water 482, 493.
2. Professional field experience: Option A or C.
3. Use remainder of 133 credits to satisfy a minor in land use planning, soil science, environmental communication, environmental law/enforcement, business administration, GISSA, scientific and technical writing, or a selection of courses approved by your adviser.

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Professional field experience options:

- A. Summer camp, 7 credits: Forestry 319, 320; NRES 405; Soils 359, 360; Wildlife 340; Water 380.
- B. Adviser-approved internships, 6 credits: Water 381 and 381W.
- C. European summer program, 8 credits: NRES 475.
- D. NRES 385 (2 cr at CWES summer camp), and Geology 385 (2 cr).
- E. NRES 385 (2 cr at CWES summer camp), and adviser approved 3 credit internship from Water 381 or other water course.

Water Resources Minor

Consists of 23 credits:

1. NRES 251; Water 389, 480, 481.
2. Other water courses, 6 credits.
3. Select 3 credits from Biology 305, 333, 338, 347, 375, NRES 377, 474, 477, Waste Mngt 380.

Courses in Water

WATR 199. Reading in the Discipline. 1 cr, pass/fail. Improve higher level critical reading and thinking skills.

WATR 338/538. Phycology. 4 cr. Taxonomy, morphology, and ecology of algae especially local species. Field collections, small group experiments, lab analysis of field and cultured samples, and discussion of current algal research literature. 3 hrs lec, 3 hrs lab per wk. Prereq: Biology 130, CNR or biology major or written cons instr. (Also offered as Biology 338/538.) (I)

WATR 350. Current Issues in Water Resources. 1-3 cr. Technological, social, and economic aspects of current water resource issues. Subtitle will designate topic. May repeat for credit under different subtitles. (I, II)

WATR 353/553. Wildlife and Fish Population Dynamics (also Wildlife 353/553). 3 cr. Mathematical, ecological, physiological, and behavioral characteristics of fish and wildlife population fluctuations. Use of models for characterizing fluctuations, and techniques for sampling, monitoring, and modeling survival, growth, reproduction, and population size. Prereq: NRES 250; Biology 160 and 305; Math 111 and 355. (I, II)

WATR 354/554. Wildlife and Fish Populations Dynamics Methods (also Wildlife 354/554). 1 cr. Demonstration of methods for modeling and dynamics of fish and wildlife populations, including abundance, survival, growth, and reproduction (recruitment). Prereq: NRES 250; Biology 160 and 305; Math 111 and 355. (I, II)

WATR 380. Field Experience in Aquatic Ecosystem Evaluation. 1 cr. Fishery, limnological, and hydrological evaluation; lake and stream inventory and evaluation for integrated resource mngt. Prereq: NRES 250, 251 and 2.00 GPA in major, CNR or biology major or written cons instr. (SS)

WATR 381/581. Internship in Water. 1-12 cr. Supervised training program in watershed management, fisheries, or water quality, in cooperation with private or public resource agencies. 1 cr for 2-4 wks (40 hrs per wk) of work. Credits and/or addl requirements determined before registration. May repeat once for 12 cr max. Prereq: Forestry 319, 320, Wildlife 340, Soils 359, 360, Water 380; or NRES 475; 2.00 GPA in major; and/or cons intern director; CNR or biology major or written cons instr. (I, II, SS)

WATR 382/582. Water Quality Management. 1 or 3 cr. 6 wks/1 cr-review federal and state water quality control legislation and the administrative rules and procedures used to implement them. Full semester for 3 cr-addl study of selected water control systems. Prereq: CNR or biology major or written cons instr.(I)

WATR 383/583. Hydrogeology. 3 cr. The occurrence and movement of groundwater in the geologic environment; response of aquifers to pumping wells; groundwater resource exploration, and management. 2 hrs lec, 2 hrs lab per wk. May not earn credit in both Water 383 and Geology 383. Prereq: Geology 101 or 104, NRES 250, 251, Math 120, CNR or biology major or written cons instr. (I)

WATR 387/587. Aquatic Insects. 3 cr. Collect and identify lotic and lentic insects that are important in fishery and water quality evaluations. 1 hr lec, 4 hrs lab per wk. Prereq: Biology 160, CNR or biology major or written cons instr. (I)

WATR 389/589. Hydrology. 3 cr. Physical basis of surface and subsurface water occurrence and flow; measurement, analysis, and prediction of hydrologic phenomena. 2 hrs lec, 2 hrs lab per wk. Prereq: NRES 250, 251; basic statistics course, CNR or biology major or written cons instr. (I, II)

WATR 391. Selected Topics in Groundwater. 1-3 cr. Selected concepts, practices, principles, and issues in groundwater hydrology, modeling, or management. May repeat under different subtitles. Prereq: NRES 251, 251; Water 389 or Geology 389; CNR or biology major or written cons instr.

WATR 450/650. Hydrologic Modeling for Planning and Design. 1 cr. Introduction to operation and requirements of surface water models used in hydrologic design and planning. Prereq: 389 or con reg; admission to CNR, cons instr.

WATR 451/651. Agricultural Hydrologic Planning and Design. 1 cr. Use of standard surface water flow and water quality models in agricultural land use planning. Prereq: 389 or con reg, admission to CNR, cons instr.

WATR 452/652. Urban Hydrologic Planning and Design. 1 cr. Use of standard urban hydrologic modeling tools for urban and suburban land use planning. Prereq: 389 or con reg, admission to CNR, cons instr.

WATR 454/654. Design of Constructed Wetlands. 1 cr. Design and construction of wetland areas for water quality control. Prereq: 389 or con reg, admission to CNR, cons instr.

WATR 455/655. Sediment Control and Site Restoration at Water Crossing Facilities. 1 cr. Designing and installing sediment control techniques at culverts, bridges, and other water crossing structures to protect fish and other aquatic biota. Prereq: Soils 461 or con reg, admission to CNR, cons instr.

WATR 456/656. Erosion Control and Slope Stabilization in Construction Activities. 1 cr. Natural and technical approaches to retaining soil on site in construction activities. Includes considerations in hydraulic mulching, erosion control materials, fertilizers and species selection for revegetation. Prereq: Soils 461 or con reg, admission to CNR, cons instr.

WATR 457/657. Bio-engineering in Streambank and Channel Restoration. 1 cr. Design, installation and construction of bank reinforcement techniques using vegetation and associated structural materials. Prereq: Soils 461 or con reg, admission to CNR, cons instr.

WATR 458/658. Design and Construction of Sediment Control Structures. 1 cr. Design and construction of sediment basins, and design and installation of sediment control structures such as silt fences, berms, and buffer strips. Prereq: Soils 461 or con reg, admission to CNR, cons instr.

WATR 475/675. Groundwater Management. 1 cr. Principles and practices of protecting groundwater quality and supply and practices to deal with groundwater problems once they have occurred. Existing laws, regulations, and management plans; social, economic, and scientific criteria used in reaching management decisions. 1 hr lec per wk. May not earn credit in both 475 and Geology 475. Prereq: 383, CNR or biology major or written cons instr. (I)

WATR 479. Contaminant Hydrogeology. 3 cr. Physical and chemical processes affecting behavior and transport of groundwater contaminants; applications of contaminant transport models; monitoring and remediation of groundwater contamination. Prereq: Water/Geology 383; Math 120; Chemistry 106 or 116; CNR or biology major and written cons instr. (II)

WATR 480/680. Water Chemistry and Analysis. 4 cr. Study and interpret chemical characteristics of polluted and unpolluted waters. 2 hrs lec, 4 hrs lab per wk. Prereq: Chemistry 106 or 116, capability with spreadsheets (CIS 102 or equiv), CNR or biology major. (I, II)

WATR 481/681. Limnology. 3 cr. Physical, chemical, and biological phenomena of freshwater communities. Prereq: Biology 305, CNR or biology major or written cons instr. (I, II)

WATR 482/682. Biological Assessment of Water Quality. 3 cr. Assessment and effects of physical and chemical pollution in the aquatic environment. Laboratory assays and field assessments and their interpretation using bacteria, invertebrates, aquatic plants and fish. 2 hrs lec, 2 hrs lab per wk. Prereq: 481 or cons instr. (I)

WATR 483/683. Fisheries Research. 3 cr. Introduction to field and laboratory fishery research. Principles of designing research projects, testing hypotheses, sampling fish, analyzing fishery data, reporting

results in both written and oral forms, and defending research. Prereq: 481; Biology 374; Summer Camp; CNR or biology major or written cons instr. (I)

WATR 484/684. Fisheries Management. 3 cr. Principles used in the assessment and management of aquatic habitats, fish populations, and human users, as they influence production of fish in inland waters. Prereq: 481; Biology 374; Summer Camp; CNR or biology major or written cons instr. (II)

WATR 485/685. Ecology of Freshwater Benthic Indicator Organisms. 3 cr. Factors affecting the distribution and micro-habitat selection of freshwater benthos including life history events, feeding mechanisms, drift, pollution biology, nutrient spiraling, and anatomical, behavioral, and physiological adaptations. Prereq: 387/587 and 481/681; or Biology 361/561; CNR or biology major or written cons instr. (II)

WATR 487/687. Groundwater Geochemistry. 3 cr. Factors and processes controlling the chemistry of subsurface waters including mineral solubility, complexation, redox reactions, ion exchange, and absorption; also hydrochemical behavior of contaminants. 3 hrs lec per wk. May not earn credit in both Water 487 and Geology 487. Prereq: Chemistry 106 or 116; Geology 101 or 104; NRES 250, 251; CNR or biology major or written cons instr. (II)

WATR 492/692. Advanced Techniques of Environmental Analysis. 3 cr. Theory and application of instrumental methods used in monitoring environmental samples; laboratory quality control, sample preparation, data handling; gas and liquid chromatography, flame and flameless atomic absorption, liquid scintillation counting, autoanalyzer use. 1 hr lec, 4r hrs lab per wk. Prereq: Chemistry 248, Water 480 or Soils 364, CNR/biology major or written cons instr. (II)

WATR 493/693. Watershed Management. 3 cr. Detailed study of the effect of land use on water quality, yield, and timing; land management practices as water resource mngt tools. Prereq: NRES 150, 151, 250, 251; CNR or biology major or written cons instr. (II)

WATR 494/694. Environmental Toxicology and Risk Assessment. 3 cr. Introduction to effects of environmental contaminants on aquatic and terrestrial organisms, quantitative methods of risk assessment and survey of contemporary literature. 2 hrs lec, 2 hrs lab per wk. Prereq: Chemistry 105, Math 355 or written cons instr. (II)

WATR 495/695. Application of Computer Modeling to Hydrogeology. 3 cr. Introduction to computer modeling with emphasis on modeling theory, groundwater flow and particle tracking models. Prereq: Water/Geology 383, Math 120, CNR or biology major and written cons instr.

WATR 496. Aquatic Toxicology. 2 cr. Concepts and methods for aquatic toxicology testing including examples of typical data and their interpretation. Prereq: Chemistry 220; Water 480, 481 or biology major and cons instr. (II)

WATR 499. Special Work. 1-3 cr. Upperclass water resources students may arrange for independent study with cons assoc dean. Credit based on scope of project. Prereq: CNR or biology major or written cons instr. (I, II)

WATR 733. Fish Habitat Analysis, Design and Modeling. 3 cr. Analytical techniques used to analyze, design, and model habitat in lake and stream environments. Prereq: 481, 484; Math 355, 455/655; or cons instr.

WATR 750. Water Resources in Society. 1-3 cr. Examination and explanation of use and management of water resources. Prereq: Certified elementary and secondary teachers only.

WATR 755. Multivariate Statistics in Fish and Wildlife Research. 3 cr. Quantitative application and interpretation of multi-variate statistics in managing complex ecological phenomena in terrestrial and aquatic environments. Prereq: Math 355, 455/655, or cons instr.

WATR 767. Paleolimnology. 3 cr. Summer field course studying the limnology and ecology of ancient lakes using current paleontological and analytical techniques. Prereq: Cons instr.

WATR 780. Advanced Water Analysis. 3 cr. Chemical methods and instrumental analysis of water supplies and wastewater; lab management for routine testing and analysis and advanced techniques for determinations of trace elements, pesticides, and other pollutants. Prereq: 480/680 or equiv, and con instr. (On demand)

WATR 781. Recent Advances in Pollution Ecology. 3 cr. Read and discuss recent research in pollution ecology. Analyze research methods, results, interpretation of data; evaluate the work with

respect to management of surface water supplies. Prereq: Cons instr. (On demand)

WATR 784. Advanced Studies in Fish Management. 3 cr. Survey literature concerned with ecology and management of fish populations. Prereq: 481/681 and 484/684; or cons instr. (On demand)

WATR 789. Advanced Hydrology. 3 cr. Modeling and systems theory in analysis of water resources mgnt alternatives; apply hydrologic analysis to ecological problems. 2 hrs lec, 2 hrs lab per wk. Prereq: 389 or 489 or cons instr. (On demand)

Water Latent Courses: Not offered recently. Full description in (xx-xx) catalog.
486/686 Fish Culture, 2 cr, (01-03)
785 Issues in Water Law, 3 cr, (01-03)

WILDLIFE

James Hardin, Coordinator
Room 346, Natural Resources Building

Phone: 715-346-4178

E-mail: jhardin@uwsp.edu OR cnr@uwsp.edu

Web: www.uwsp.edu/cnr/wildlife.htm

Faculty: E Anderson, D Caporale, T Ginnett, J Hardin, D Post, R Rosenfield, K Russell, S Taft, E Wild.

Definition: In the wildlife major you will develop problem-solving and scientific skills and understand the social influences and ecological interactions that impact on wildlife management and conservation biology.

Academic Standards

To graduate with a major or minor in wildlife you must have a minimum cumulative grade point average of 2.25.

Wildlife Major

Consists of 130-147 credits.

1. CNR core courses, 31 credits: NRES 150, 151, 250, 251, 490; Wildlife 311, 350, 353, 451, 458.
2. Collateral courses, 33 credits:
 - a. Biology 130, 160, 342, 281 or 370, 377 or 378.
 - b. Math 355 or Forestry 321; Geography 279.
 - c. Econ 210 or NRES 372.
 - d. Three credits from NRES 440, 459, 473, 474, 480, 484, 495; Poli Sci 250, 304, 354.
3. Summer Camp courses, 7 credits: Forestry 319, 320, NRES 405; Soils 359, 360, Water 380, Wildlife 340, or 8 credits of NRES 475.
4. Complete ONE option below:
 - a. **Wildlife ecology and management.**
 - 1) Required, 13 credits: Biology 210, 305; Math 111; WLDL 354.
 - 2) Three credits from Biology 361 or Water 387; Biology 374, 376 (or 377 or 378 if not taken previously).
 - 3) Chemistry 105 or 115; Physics 201 or 202.
 - 4) Three credits from English 254, 350, 351, 354, or 358.
 - 5) Three credits from NRES 301, 320, 368, Communication 280.
 - b. **Wildlife education.** (NOT for teacher certification.)
 - 1) Required, 13 credits: NRES 301, 320, 368, 4 cr of 369; Wildlife 372.
 - 2) Electives, 16-19 credits: Biology 376, 377, or 378; Geography 101 or Geology 104; Chemistry 101 or 105; Math 111, or 112 and 118.
 - 3) Internship, Wildlife 381: 3-12 credits in wildlife education or interpretation with prior approval of coordinator. May substitute NRES 476 under special circumstances with prior approval of coordinator.

Wildlife Minor

Consists of 20-21 credits:

1. NRES 250, Wildlife 353, 354, 451, 458. (CNR Summer Camp is a prereq for Wildlife 451.)
2. Biology 377 or 378.
3. One course from Wildlife 311, 350; Forestry 332; Water 481; NRES 320, 440, 459, 473, 474; Soils 461.

Captive Wildlife Minor

Consists of 27 credits:

1. Wildlife 321, 322, 458 or NRES 458; Biology 281, 362.
2. Three credits from Wildlife 305; Biology 498 or 388 with captive wildlife topics and prior approval of the coordinator.
3. Internship: 3 credits with prior approval of the coordinator from Wildlife 381 or Biology 499 involving captive wildlife.
4. Six credits from NRES 320 or 368; Wildlife 372.
5. To graduate with a minor in captive wildlife you must have a minimum cumulative grade point average of 2.25.

Conservation Biology Minor

Consists of 25-28 credits.

1. Required core, 13 cr: Biology 305; 355 or Forestry 332; NRES 458 or Wildlife 458; NRES 459, 491.
2. Economics, policy, and planning, 6 cr:
 - a. NRES 372 or Econ 342.
 - b. One course from Poli Sci 304, NRES 473, 474, 480, 484, 495.
3. Biological support, 6-9 cr:
 - a. Plant taxonomy: one course from Biology 342, 344, 345, 347, Forestry 232.
 - b. Animal taxonomy: one course from Biology 361, 372, 374, 376, 377, 378, Water 387, Forestry 426.
 - c. Principles and techniques: one course from Biology 210, 311, Wildlife 353, 451, Forestry 324, 325, 332, 385, 432, Soils 361, 365, 461, Water 481, 493, Geography 476.
4. To graduate with a minor in conservation biology you must have a minimum cumulative grade point average of 2.25.

Courses in Wildlife

WDL 305/505. Selected Topics in Wildlife Ecology and Management. 1-3 cr. Selected concepts, practices, principles, and issues in wildlife mngt. May repeat under different subtitles. Prereq: CNR or biology major or written cons instr. (I, II)

WDL 311/511. Quantitative Methods for Wildlife and Fisheries Research and Management. 2 cr. Practical experience in formulating hypotheses, designing field studies, analyzing and interpreting data commonly collected in wildlife and fisheries research and management. Through examples and individually collected data sets, learn appropriate design, selection of quantitative methods, biological interpretation of results, field complications, and impacts of violations of assumptions. Prereq: Math 355 or Forestry 321; CNR major or written cons instr. (I, II)

WDL 321. Principles of Captive Wildlife Management. 2 cr. Role of captive wildlife management in conservation, research, economics, recreation, and education; impact of confinement on behavior, nutrition and health; legislation relating to the capture, transport, and housing of wild animals. Prereq: Biology 160, CNR or biology major or written cons instr. (I)

WDL 322. Techniques of Captive Wildlife Management. 2 cr. Design and administration of facilities; techniques for restraining and handling captive wildlife; sanitation and common diseases, parasites and other problems associated with confining wild animals. Prereq: 321, CNR or biology major or written cons instr. (II)

WDL 340. Field Experience in Wildlife Management Techniques. 1 cr. Investigate ecological relationships and apply selected wildlife management techniques including habitat evaluation and capturing, marking, monitoring, and censusing animals for integrated resource mngt. Prereq: NRES 250, 2.00 GPA in major; CNR major or written cons instr. (SS)

WDL 350/550. Wildlife Management Techniques. 3 cr. Techniques for managing wildlife populations: aging and sexing criteria, capture, handling and control methods, censusing, assessing food habits and quality, estimating home ranges, quantifying habitat relationships, modeling land use impacts, and conducting research studies. Prereq: 311, Summer Camp, English 254, 353, 354, or 358; CNR major or written cons instr. (I, II)

WDL 353/553. Wildlife and Fish Population Dynamics (also WATR 353/553). 3 cr. Mathematical, ecological, physiological, and behavioral characteristics of fish and wildlife population fluctuations. Use of models for characterizing fluctuations, and techniques for sampling, monitoring, and modeling survival, growth, reproduction, and population size. Prereq: NRES 250; Biology 160 and 305; Math 111, and 355. (I, II)

WDL 354/554. Wildlife and Fish Populations Dynamics Methods (also WATR 354/554). 1 cr. Demonstration of methods for modeling and dynamics of fish and wildlife populations, including abundance, survival, growth, and reproduction (recruitment). Prereq: NRES 250; Biology 160 and 305; Math 111 and 355. (I, II)

WDL 360/560. Wetlands Ecology and Management. 3 cr. Investigate physical, chemical and biological processes of wetlands, and how these processes relate to the maintenance and enhancement of our nation's natural resources. Study wetland functions and values and wetland habitat classification systems. Prereq: NRES 150, 151, 250, 251 and Summer Camp, or cons instr. (II)

WDL 372/572. Wildlife of North America. 3 cr. Identification, life history, economic and ecological importance of North American fish and wildlife that are the focus of wildlife management, game enforcement and environmental studies. Emphasis on species for environmental law enforcement and environmental education personnel. 2 hrs lec, 2 hrs lab per wk. Prereq: 151 and 250; Biology 160. (I, II)

WDL 381/581. Internship in Wildlife. 1-12 cr. Supervised training program in wildlife, in cooperation with private or public resource agencies. 1 cr for 2-4 wks (40 hrs per wk) of work. Credits and/or addl requirements determined before registration. May repeat once for 12 cr max. Prereq: Forestry 319, 320, Wildlife 340, Soils 359, 360, and Water 380; or NRES 475; 2.00 GPA in major; and/or cons intern director; CNR major or written cons instr. (I, II, SS)

WDL 450/650. Human Dimensions of Wildlife and Fisheries Management. 1 cr. Survey and evaluate research relating to human dimensions of wildlife and fisheries management; review values, satisfactions, and attitudes associated with consumptive and nonconsumptive uses of wildlife and fish. Prereq: CNR major or written cons instr. (On demand)

WDL 451/651. Management of Wildlife Habitat. 4 cr. Principles and practices of habitat mngt for wildlife in North America. Prereq: Summer Camp, English 254, 353, 354, or 358; CNR major or written cons instr. (I, II)

WDL 458/658. Wildlife Ecology and Conservation Biology. 3 cr. Apply basic principles of traditional ecology, landscape ecology, genetics, and behavior to management for biological diversity. Develop critical thinking skills to evaluate and synthesize information to solve wildlife-related natural resource issues of diversity and scarcity. Prereq: 451 or con reg, CNR or biology major or written cons instr. (I, II)

WDL 459/659. Ecosystem Management and Restoration Ecology. 3 cr. Methods for managing and restoring ecosystems for biological diversity and sustainable use. Prereq: 458 or NRES 458. (II)

WDL 493/693. Wildlife Field Seminar. 1-2 cr. 1 cr may be pass/fail. For 2 cr, complete comprehensive report on field experience. Prereq: Cons instr. (On demand)

WDL 499. Special Work. Upperclass wildlife majors may arrange for independent study with consent of the assoc dean. Credit based on scope of project. Prereq: CNR major or written cons instr. (I, II)

WDL 740. Wildlife Issues Investigations. 1 cr. Apply ecological principles and management techniques to study relationships between wildlife issues and land uses, culture, economic and political actions. Prereq: Biology 305 or equiv, and cons instr. Certified elementary and secondary teachers only. (SS)

WDL 742. Ecological Data Analysis. 3 cr. Principles and techniques for ecological data analysis, emphasizing model building and hypothesis testing. Study design and traditional statistical approaches. Also power analysis, resource selection functions, spatial statistics, time-series analysis, and population viability analysis. Prereq: Math 355 or Forestry 321 or written cons instr.

WDL 752. Advanced Studies in Wildlife. 3 cr. Survey literature concerned with the ecology and management of terrestrial animals. Prereq: 451/651 or cons instr. (On demand)

WDL 754. Behavioral Ecology. 3 cr. Discuss current theories of animal behavior relative to population dynamics, adaptation, and evolution of species. Prereq: 353/553 and Biology 305 or cons instr.

WDL 758. Animal Ecology and Conservation Biology. 3 cr. Advanced topics in animal communities including species diversity, rarity, metapopulations, animal invasions, complex species interactions, and animals as regulators of ecosystem functioning. Emphasis on evaluating recent theories with empirical information. Prereq: 458/658 and Biology 305 or written cons instr.

WDL 762. Quantitative Ecology. 3 cr. Principles of ecology illustrated by mathematical models. Includes stochastic models, time-series, nonlinear dynamics, demography, and life history theory. Prereq: 353/553.

Wildlife Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

320 Wildlife and Society: Contemp Issues, 1-3 cr, (95-97)
355/555 Wildlife Diseases, 2 cr, (95-97)

356 Wildlife Disease Methods, 1 cr, (93-95)

Natural Science (College of Letters and Science)

Don Showalter, Coordinator
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The major in natural science may be applied toward a degree in the College of Letters and Science. It may also be used in the School of Education of the College of Professional Studies for Department of Public Instruction certification in broad-field science.

Enrollment caps are in effect for those seeking teacher certification. Please contact the natural science coordinator early for entrance requirements and application procedures. Also see information about the Professional Education Program and the secondary education curriculum for teacher certification in the **Education** section of this catalog.

Natural Science Major

Consists of 54 credits. Select ONE option:

Earth Science Option:

1. A minor in earth science consisting of 22 credits.
2. Astronomy 205 and 206, 8 credits (may be used in the earth science minor in replacement of Astronomy 311 and one elective credit).
3. Biology, 10-14 credits including Biology 130 and 160.
4. Chemistry, 9-14 credits including Chemistry 105 and 106, or 115 and 116.
5. Physics, 10-14 credits which must consist of Physics 203 and 204, or 150 and 250, and any physics courses numbered 300 and above.
6. At least 14 credits must be earned in one of the areas listed in items 3, 4, or 5 above.
7. Collateral: 4 credits from Math 111, 118, 119, or 355.

Life Science Option:

1. A biology minor consisting of 22 credits.
2. Chemistry, 9-14 credits including Chemistry 105 and 106, or 115 and 116.

3. Earth Science, 8-14 credits selected from: Geography 101, 352, 353, 354; Geology 104, 106, 200, 370; Astronomy 205, 206 or 311.
4. Physics, 10-14 credits which must include Physics 203 and 204; or 150 and 250, and any physics courses numbered 300 and above.
5. At least 14 credits must be earned in one of the areas listed in items 2, 3, or 4 above.
6. Collateral courses: Math 111 or 120 or 355.

Physical Science Option:

1. A minimum of 38 credits in physical science:
 - a. A minor in either chemistry (24 credits) or physics (25 credits);
 - b. Fourteen credits in the other area. If your minor is chemistry, these credits must consist of Physics 203 and 204, or Physics 150 and 250, and any physics courses numbered 300 and above.
2. Biology 130 and 160, 10 credits.
3. Earth science, 8-10 credits selected from: Geography 101, 352, 353, 354; Geology 104, 106, 200, 330, 370; Astronomy 205, 206 or 311.
4. Collateral: For chemistry minor take Math 111 or 120; for the physics minor take Math 120, 121, 222.

Natural Science Broad-Field Minor

Consists of 25 credits, at least 5 from each area:

1. Earth science: Astronomy 205, 206 or 311; Geography 101, 352, 353, 354; Geology 104 and 106, 200, 330, 370.
2. Life Science: Biology 101, 130, 160.
3. Physical Science: Chemistry 101, 105, 106, 114, 115, 116; Physics 101, 203, 204, 150, 250.

Natural Science Broad-Field Minor for Elementary Education Majors

Consists of at least 31 credits, for elementary education majors only:

1. At least 5 credits from each area:
 - a. Earth science: Astronomy 205, 206 or 311; Geography 101, 352, 353, 354; Geology 104 and 106, 200, 330, 370.
 - b. Life Science: Biology 101, 130, 160.
 - c. Physical Science: Chemistry 101, 105, 106, 114, 115, 116; Physics 101, 203, 204, 150, 250.
2. Required, 6 credits: Education 325, Natural Resources 370.

Academic Standards

1. To be approved for graduation, you must have a minimum overall grade point average of 2.00 (2.75 to student teach) in all courses included in your natural science major or minor, regardless of any declaration of academic bankruptcy.
2. In addition, you must meet the minimum GPA required for the minor that goes with the natural science option you are pursuing. See descriptions of the minors in the earth science, biology, chemistry, or physics sections of this catalog.
3. See the **More Academic Information** section of this catalog for the policy on repeating courses.

NURSING

See **Prenursing**.

NUTRITION

See **Health Promotion and Human Development**.

OUTDOOR EDUCATION

See *Natural Resources* and/or *Health, Exercise Science and Athletics*.

OVERSEAS STUDY PROGRAM

See *International Programs* in the *More Academic Information* section of this catalog.

Paper Science

(College of Natural Resources)

Gerry Ring, Interim Chair
Room D-274, Science Building
Phone: 715-346-4817
E-mail: papersci@uwsp.edu
Web: www.uwsp.edu/papersci

Faculty: K Biasca, R Jacobs, W Radue, G Ring.

Paper Science Major

Consists of major, collateral, and university general degree requirements, totaling 141 credits. (See Paper Science course listings for descriptions.)

1. Paper science courses, 48 credits: 210, 215, 314, 320, 326, 350, 355, 360, 365, 430, 440, 475, 485, 486, 490, 495.
2. Mill internship: Paper Sci 300, 3 credits.
3. Chemistry 115 and 116 (or 105 and 106), 248, 325, 326, 328, 330 (or 335 and 338). (These courses satisfy the requirements for a chemistry minor.)
4. Collateral courses, 35 credits: CIS 205; Econ 210; Math 120, 121, 222, 320; Physics 150, 250; Natural Resources 357 or Water 481 or Waste 380, or Waste 488 or 489.

Academic Standards

1. To be accepted as a major in paper science at the beginning of your junior year, you must have a minimum grade point average of 2.75, regardless of any declaration of academic bankruptcy.
2. The 2.75 GPA is a prerequisite for any paper science course numbered 300 and above.
3. You may not apply grades of D+ or lower to satisfy prerequisites for any paper science course. You may apply to the major only one grade of D+ or below in required paper science courses and collateral requirements numbered 300 or above.
4. If you do not meet these standards, you may petition the chair of the department for consideration.

Courses in Paper Science

PAPR 101. Introduction to Pulp and Paper Processes. 3 cr. Survey pulping and papermaking processes with emphasis on present technology and use of raw materials; field trips to observe commercial operations. 2 hrs lec, 1 hr disc per wk.

PAPR 105. Freshman Forum. 1 cr; pass/fail. Orientation to technical and professional aspects of paper and allied industries; presentations by students, faculty, and guest lecturers.

PAPR 210. Pulp and Paper Laboratory Methods. 3 cr. Laboratory methods in pulp, paper, and nonfibrous testing; microscopic techniques; emphasis on statistical analysis of data. 1 hr lec, 4 hrs lab per wk. Prereq: Chem 116 or 106, or cons instr.

PAPR 215. Introduction to Process Engineering Calculations. 4 cr. Basic principles and techniques of engineering problem formulation and solution; material and energy balances, including chemical reactions and studies of advanced systems; thermodynamic properties and engineering data information management; introduction to computer modeling and simulation; applications to

pulp and papermaking process engineering. Prereq: Chem 116 (or 106); Math 118 and 119; CIS 205; Paper Sci 210; or cons instr.

PAPR 300. Mill Internship. 3 cr. Paper science majors work 10 weeks in a pulp and paper mill, with emphasis on manufacturing assignments; comprehensive report required. Prereq: Cons chair.

PAPR 314. Engineering Statistical Design and Analysis. 3 cr. Statistical methods for the design, analysis and improvement of engineering experimentation and process operation: experimental design, regression analysis, modeling, analysis of variance, and evolutionary operation. Prereq: Jr st in paper science or cons instr.

PAPR 320. Fluid Mechanics and Hydraulics. 3 cr. Properties of fluids; momentum transport phenomena; laminar and turbulent flow; measurement and control of flow; fluid machinery; engineering calculations and design; economic factors. 2 hrs lec, 3 hrs lab/disc per wk. Prereq: 215; Math 222; Physics 150; or cons instr.

PAPR 326. Heat Transfer Operations. 3 cr. Fundamental heat transfer mechanisms: conduction, convection, and radiation; heat transfer coefficients; heat exchange equipment; evaporation and evaporator systems; drying; economic factors; applications specific to pulp and paper processes; study of field operations. 2 hrs lec, 3 hrs lab per wk. Prereq: 320 or cons instr.

PAPR 350. Wood and Pulping Technology. 4 cr. Cellulose, hemicelluloses, lignin, wood extractives, wood and fiber microstructure; commercial pulping and bleaching processes. Effective use of technical literature and presentation of information. 3 hrs lec, 3 hrs lab/disc per wk; field trips to commercial operations. Prereq: 215 and Chem 326.

PAPR 355. Paper and Fiber Physics. 4 cr. Fiber structure and properties; interfiber bonding; mechanical optical, chemical properties of paper; interrelations between structure, sheet formation, consolidation factors, and ultimate properties. Effective use of literature and presentation of information. 3 hrs lec, 3 hrs lab/disc per wk. Does not count toward major or minor in physics. Prereq: 350 or cons instr.

PAPR 360. Process Dynamics and Control. 3 cr. Dynamic model formulation and solution, using Laplace transform, analog, and digital computing techniques; control theories, strategies, and equipment; controller tuning; applications to pulp and paper processes; field trips. 3 hrs lec, 3 hrs lab/disc per wk. Prereq: 215 and Math 320.

PAPR 365. Colloid and Surface Phenomena. 3 cr. Principles of colloid and surface chemistry; electrokinetic and base exchange phenomena; thermodynamics of interfacial systems; adsorption; applications to coatings, flocculation, fillers, and wet end additives. Prereq: Chem 330 or 335.

PAPR 390. Special Topics in Paper Science. 1-3 cr. Subtitle will designate topic and credits.

PAPR 399. Research Problem. 1-3 cr. Upperclass paper science majors may arrange for special laboratory or field research in consultation with staff and industry with cons chair. Emphasizes problem analysis, literature searches, and communication of research results. Credit is based on scope of project.

PAPR 410. Leadership Practicum. 1 cr. Develop leadership and supervisory skills; instruction in laboratory safety. Prereq: Sr st.

PAPR 430. Mass Transfer Operations. 3 cr. Fundamental concepts; mass transfer coefficients; gas absorption; filtration; extraction; pulp washing systems; sedimentation; cooling, humidification, air conditioning; drying; applications specific to pulp and paper processes; study of field operations. 2 hrs lec, 3 hrs lab/disc per wk. Prereq: 326 or cons instr.

PAPR 440. Industrial Thermodynamics and Kinetics. 4 cr. Thermodynamic properties; energy and entropy balances; thermodynamics of energy conversion; combustion, steam, vapor power cycles; energy recovery systems; chemical kinetics and reaction engineering; economic and environmental factors; applications to pulp and paper processes; field trips. 3 hrs lec, 2 hrs lab/disc per wk. Prereq: 326 and Chem 330 or 335; or cons instr.

PAPR 445. Paper Coating and Converting. 3 cr. Pigment coating materials and processes; converting operations including laminating, corrugating, extrusion and hot melt coating; functional coatings; presentations by staff and guest lecturers. Prereq: Sr st in paper sci or cons instr.

PAPR 475. Paper Machine Operations. 3 cr. Hydrodynamics of fibrous suspensions; dynamics of sheet formation and water removal; fundamentals of pressing; analysis of drying process in terms of heat and mass transfer; engineering calculations performed on full scale

production paper machines; field trips to paper mills and affiliated industries. 2 hrs lec, 3 hrs lab/disc per wk. Prereq: 355 or cons instr.

PAPR 485. Systems Engineering and Simulation. 3 cr. Modeling and simulation of pulp and papermaking systems; computer systems analysis; commercially available simulation hardware and software; model building for engineering systems; industrial case histories and economic systems optimization. 1 hr lec, 3 hrs lab/disc per wk. Prereq: 215, 350, 355, or cons instr.

PAPR 486. Engineering Design Project. 3 cr. Engineering economics; interest and economic equivalence; methods of comparing project and investment alternatives. Individual student project includes project definition, equipment selection and sizing, capital and operating cost estimation, economic evaluation and justification; oral and written presentations. 2 hrs lec, 1 hr disc per wk. Prereq: Cons instr.

PAPR 490. Seminar I. 1 cr; pass/fail. Orientation to technical and professional aspects of the paper industry; presentations by students, staff, and guest lecturers. Prereq: Sr st in paper sci, or cons instr.

PAPR 495. Seminar II. 1 cr; pass/fail. Presentation and discussion with students, staff, and guest lecturers. Prereq: Sr st or cons instr.

Peace Studies (College of Letters and Science)

Eric Yonke, Coordinator
Room 307 Nelson Hall and Room 428 College of Professional Studies Building
Phone: 715-346-3429 or 346-2458
E-mail: Peace.Studies@uwsp.edu OR eyonke@uwsp.edu
Web: www.uwsp.edu/history/pax.htm

Peace Studies Minor

Consists of 18 credits.

1. Pax 200, 490 or 491.
2. After you complete Pax 200, take 12 credits from one of the groups below. Consult with the coordinator to determine your area of interest. No more than 6 credits from one department or discipline may apply to your interest area. You may take 3 credits of 300 level independent study or special topics courses with coordinator consent.
 - a. **Global peace and development:** Choose 12 credits from Economics 362; Geography 110, 340, 358; History 260, 318, 329, 373, 393; Philosophy 380, 381; Political Science 305, 374, 376, 383, 385, 387; Religious Studies 302; Psychology 320, 322; Sociology 355, 360; special topics courses or Pax 399 with prior approval.
 - b. **Social justice and human rights:** Choose 12 credits from Anthropology 110, 339; Communication 373; Economics 328, 345; English 376; History 383, 393; Philosophy 350; Political Science 374, 396, 414; Psychology 240, 320, 322; Sociology 300; special topics courses or Pax 399 with prior consent.

Courses in Peace Studies

PAX 200. Dilemmas of War and Peace: An Introduction to Peace Studies. 3 cr. Examine history of warfare and conditions of peace; role of cultural and political institutions; development of international conflict resolution and systems of peace. GDR:HU4

PAX 390. Internship/Practicum. 1-3 cr. Under instructor supervision, work with organizations striving to advance peace and social justice. Research paper required. Credits set by instructor. May be repeated. Prereq: PAX 200, 3 cr toward interest area and cons coord.

PAX 399. Special Work. 1-3 cr. Upperclass students may arrange for independent study with cons instr. Credit based on scope of project. Prereq: PAX 200 and cons coord.

PAX 490. Seminar. 3 cr. Contemporary problems and "classic" texts in peace studies; research and analysis. Prereq: PAX 200 and 9 cr toward interest area.

PAX 491. Senior Thesis. 3 cr. Research and analysis of a topic reviewed by faculty from at least two disciplines. Prereq: PAX 200, 9 cr toward interest area and cons coord.

Peace Studies Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

100	Dimensions of a Peaceful World, 3 cr, (99-01)
101	The Social Matrix of War, 3 cr, (99-01)
230	Nonviolence, 3 cr, (99-01)
240	The Personal Element of Peace, 3 cr, (99-01)
250	War and the Arts, 3 cr, (99-01)
300	Dimensions of a Peaceful World, 3 cr, (99-01)
320	Peace Movements, 3 cr, (99-01)
330	Theories of War and Aggression, 3 cr, (99-01)
340	The Nuclear Arms Race and Arms Control, 3 cr, (99-01)
350	Economics of War and Peace, 3 cr, (99-01)
370	Futures, 3 cr, (99-01)

Philosophy (College of Letters and Science)

Donald E. Fadner, Chair
Room 489, Collins Classroom Center
Phone: 715-346-3340
E-mail: philosophy@uwsp.edu
Web: www.uwsp.edu/philosophy

Faculty:

Philosophy: D Chan, K Fry, M Nelson, J Waligore, D Warren, D Williams.

Religious Studies: C Dempsey, D Fadner, A Keefe; J Lewis (adjunct)

Anthropology: B Butler, TH Johnson, R Riggs; W Gartner (adjunct)

Definitions: Philosophy is the rigorous examination of issues that cannot be resolved through empirical observation or experiment, such as the status of ethical judgments, the existence of God, and what counts as good reason for belief.

Religious Studies is the cross-cultural and comparative examination of humanity's diverse religious traditions, without privileging the truth-claims of any particular tradition.

Anthropology studies the evolution of the human species, the history and evolution of past human cultures, and present day cultures and languages.

Philosophy Major

Consists of a minimum of 27 credits including:

1. History: Phil 325, 326, and 327.
2. Logic: Phil 322.
3. Value theory: One course from Phil 302, 303, 305, 307, 315, 336.
4. Metaphysics/Epistemology: One course from Phil 306, 310, 312, 318, 320, 350, 360, 385.
5. Seminar: Phil 490.
6. Electives: At least 6 additional credits in philosophy which may include either 100 or 101, but not both.

Philosophy Major with Concentration in Environmental Ethics

Consists of a minimum of 33 credits including:

1. Logic: Phil 121 or 322.
2. History: Phil 325, 326, 327.
3. Value theory: One course from Phil 302, 303, 305, 307, 315, 336.
4. Environmental ethics: Phil 380 and 480.
5. Philosophy electives: One course from Phil 303, 306, 307, 315, 320, 350, 385.

150 Philosophy

6. Interdisciplinary electives: 9 credits (at least 6 must be 300 level or higher) from: Biology 305, 308; Clinical Lab Science 395; Communication 220, 230, 240, 280; Economics 342; English 358, 363, 365, 392; Forestry 232; Geography 100, 340, 371; Geology 330; History 366, 368, 394; Natural Resources 150, 151, 320, 323, 330, 370, 395, 412, 458, 459, 460, 491, others with approval; Phil 381; Political Science 304, 305; Religious Studies 301; SHP 330; Sociology 355.

Philosophy Major with Concentration in Religious Studies

Consists of a minimum of 33 credits including:

1. **Philosophy core**, 12 credits.
 - a. Logic: Phil 121 or 322.
 - b. Content areas: Three additional courses in philosophy. Two must be at 300 level.
2. **Religious studies concentration**, 21 credits. At least 12 must be 300 level or above.
 - a. Non-Western religions: One course from Rel Std 100, 105, 316, 333 if not used in 2c, 340, 341, or Phil 105.
 - b. Western religions: One course from Rel Std 101, 303, 304, 311, or 330.
 - c. Approaches to the study of religion: One course from Rel Std 301, 302, 321, 333 if not used in 2a, or Anthropology 320.
 - d. Senior seminar: Rel Std 450.
 - e. Electives: A minimum of 9 additional credits from religious studies or collateral courses in anthropology, history, and philosophy. Collateral courses must be approved by religious studies coordinator or department chair.

Philosophy Minor

Consists of a minimum of 18 credits including:

1. Logic: Philosophy 121 or 322.
2. History: Two courses from Phil 325, 326, or 327.
3. One course at 300 level or higher, that may include 322 if 121 is taken to fulfill the logic requirement.
4. Electives: At least 6 additional philosophy credits.

Philosophy Major and Minor for Teacher Certification

For teacher certification in philosophy, a minimum of 34 credits is required for a major and 22 credits for a minor. Take 7 additional credits in philosophy for the major or 4 for the minor, including one credit of PHIL 399 focused on practical matters of teaching philosophy in primary or secondary schools. For the 33-credit environmental ethics and religious studies concentrations, take the additional one credit in PHIL 399 or REL 399 focused on practical matters of teaching environmental ethics or religious studies in primary or secondary schools.

Philosophy Honors Program

The Department of Philosophy offers an honors program for students majoring in philosophy or philosophy with a concentration in religious studies. To apply for admission, contact the department chair if you have a 3.0 grade point average with at least 30 university credits of which six are philosophy or religious studies. The requirements are:

1. Complete all the requirements for the major with a GPA of 3.5 for courses in the major.
2. Complete a minimum of 9 honors credits in philosophy and/or religious studies courses with a grade of A Honors.

3. Complete 3 of the 9 honors credits in Phil 399 or Rel Std 399, Independent Study: Honors Project.

Academic Standards

1. To ensure that your program is as well planned as possible, the Philosophy Department requires each major or minor to have a departmental adviser.
2. You must have your adviser's approval on all philosophy courses you select to apply to the major or minor.
3. You may apply selected upper division religious studies courses with adviser approval to your philosophy major or minor if it will strengthen your program.
4. To be accepted and retained as a major or minor and approved for graduation, you must have a minimum grade point average of 2.50 (2.75 to student teach) in courses counted toward the major or minor, including transfer credits and regardless of any declaration of academic bankruptcy. Courses taken pass/fail or with a grade lower than C- may not be counted toward the major or minor. You may repeat a course in the major or minor only if you follow the policy on repeating courses found in the **More Academic Information** section of this catalog.
5. Courses in philosophy are open to all students who meet the prerequisites.

Test-out Policy

You may apply to test out of any course in philosophy, religious studies or anthropology that meets one or more of the general degree requirements. The department chair will make arrangements for the test. You will work with a designated faculty member who will confer with you regarding date, site, question format, etc. The faculty member will prepare a comprehensive written exam, grade it and inform you in writing of your grade within two weeks of taking the exam. If you receive a grade of B or higher, the corresponding GDR requirement will be waived.

The department assumes no responsibility for preparing students for test-out examinations. You may not apply to test-out of a course in which you are currently enrolled. You may not attempt to test out of a course more than once.

Courses in Philosophy

PHIL 100. Introduction to Philosophy. 3 cr. Survey of important problems in philosophy such as the nature of reality, knowledge, and value. GDR:HU3

PHIL 101. Contemporary Moral Problems. 3 cr. An attempt to clarify selected contemporary moral issues by applying insights of moral philosophy and tools of critical reflection. GDR:HU3

PHIL 104. The Ways of Philosophy: Searching for a Worthwhile Life. 3 cr. Introduction to eastern and western ways of philosophy that have guided people throughout history.

PHIL 105(NW). Philosophy and Religion of India and China. 3 cr. Introduction to origin and development of Indian and Chinese thought and religion, with emphasis on Hinduism, Buddhism, Taoism, and Confucianism. GDR:HU3

PHIL 121. Critical Thinking. 3 cr. Fundamental principles of reasoning including recognition, analysis, and evaluation of arguments. GDR:HU3

PHIL 199. Reading in the Discipline. 1 cr; pass/fail. Improve critical reading and thinking skills. Taken in conjunction with designated sections of philosophy courses.

PHIL 230(NW). Philosophy of Human Nature: Eastern and Western. 3 cr. Introduction to Eastern and Western theories about human nature, the human condition, and their ethical implications. GDR:HU3

PHIL 302. Ethics and Medicine. 3 cr. Critical examination of ethical issues in medicine and health care. GDR:HU3

PHIL 303. Philosophy of Art. 3 cr. Examine traditional and contemporary theories about nature and function of art, processes of artistic creation and appreciation, and philosophical problems in art criticism.

PHIL 305/505. Ethics. 3 cr. Critical examination of moral concepts and representative ethical systems. GDR:HU3

PHIL 306. Philosophy of Science. 3 cr. Examine scientific inquiry, including theory formation, justification and change. GDR:HU3

PHIL 307. Science and Value. 3 cr. Examine relationship between scientific knowledge and basic moral values. GDR:HU3

PHIL 310. Metaphysics. 3 cr. Philosophical theories of reality. May include personal identity, the nature of mind, substance, causation.

PHIL 312. Epistemology. 3 cr. Study of nature, limits, and bases of human knowledge.

PHIL 315. Philosophy of Law. 3 cr. Examine central legal concepts including natural law, and structure of legal reasoning. GDR:HU3

PHIL 318. Philosophy of Language. 3 cr. Introduction to theories of meaning to explain the relationship between language and the world.

PHIL 320. Philosophy of Religion. 3 cr. Basic problems of the philosophy of religion such as the existence of God, the problem of evil, religious language, and immortality. GDR:HU3

PHIL 322. Symbolic Logic. 3 cr. Introduction to symbolic logic including truth functions, propositional logic, and introductory predicate logic.

PHIL325. Ancient Greek Philosophy. 3 cr. Major philosophical movements and figures from classical Greece. GDR:HU3

PHIL 326. 17th and 18th Century Philosophy. 3 cr. Major philosophic movements and figures from the Renaissance through Immanuel Kant. GDR:HU3

PHIL 327. 19th and 20th Century Philosophy. 3 cr. Major philosophic movements and figures in the 19th and 20th centuries. GDR:HU3

PHIL 336. Political and Social Philosophy. 3 cr. Historical and contemporary analyses of fundamental concepts of political and social theory including the state, law and rights, and political obligation. Prereq: So st. GDR:HU3

PHIL 350. Feminist Philosophy. 3 cr. Surveys and analyzes the history of and contemporary directions in feminist philosophy.

PHIL 360. Philosophy and Psychotherapy. 3 cr. Examine epistemological, metaphysical and ethical issues underlying various schools of psychotherapy and study attempts to use philosophy in a psychotherapeutic context.

PHIL 380. Environmental Ethics. 3 cr. Philosophical, religious, and scientific concepts and values that have structured human attitudes toward the natural environment. GDR:HU3 EL

PHIL 381(NW)(MNS). American Indian Environmental Philosophies. 3 cr. Examine the worldviews, environmental attitudes, and ethics of American Indians. GDR:HU3

PHIL 385. Philosophy of Ecology. 3 cr. Explore conceptual issues in ecology, especially the connection between ecology and environmental ethics.

PHIL 392. Department Internship. 1 cr; pass/fail. The intern provides small group writing and reading assistance in selected philosophy and religious studies courses. Prereq: Cons instr.

PHIL 395/595. Philosophical Problems. 1-3 cr. A significant philosophical problem and related literature. Subtitle will designate area. Prereq: 3 cr in philosophy or cons instr.

PHIL 399. Independent Study. 1-3 cr. Independent study of a philosophical problem, theme, thinker, or period with cons instr and chair. Credit based on scope of project.

PHIL 480/680. Advanced Environmental Ethics. 3 cr. Advanced study of ethical relationships between humans and the nonhuman world. Prereq: (Undergrads only) 380 or cons instr.

PHIL 490/690. Seminar. 3 cr. Intensive study of a major philosophic figure or topic. Subtitle will designate topic. Prereq: Cons instr.

Philosophy Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

- 301 Philosophy in a Literary Mode, 3 cr, (95-97)
- 304 Business Ethics, 3 cr, (95-97)
- 330 Existential Philosophy, 3 cr, (95-97)
- 338 Chinese Philosophy, 3 cr, (95-97)
- 340 American Philosophy, 3 cr, (95-97)
- 515 Philosophy of Law, 3 cr.

PHOTOGRAPHY

See *Art and Design*.

PHYSICAL EDUCATION

See *Health, Exercise Science, and Athletics*.

PHYSICAL ENVIRONMENT

See *Geography*.

PHYSICAL SCIENCE

See *Natural Science*.

Physics

(College of Letters and Science)

Robert Beeken, Chair of Physics and Astronomy
Room B-109, Science Building

Phone: 715-346-2139

Email: physics@uwsp.edu

Web: www.uwsp.edu/physastr

Faculty: R Beeken, B Hinaus, K Jore, R Olson, K Razdan, D Rislove, G Taft, D Tamres, M Veum.

Definition: Physics is the branch of science that investigates the laws of motion and properties of matter. It is often divided into the sub-disciplines of mechanics, heat, sound, electricity, magnetism, optics, atomic, and nuclear physics.

Courses in **astronomy** are listed under that title earlier in this catalog.

Physics Major

Consists of a minimum of 61 credits including the following:

1. Math 120, 121, 220, 222.
2. Chemistry 101; **or** 105 and 106; **or** 115 and 116.
3. Physics 111, 150, 250, 300, 325, 326, 335, 405, 435, 470, and one credit of 388 or 499.
4. Physics 315 or 370.
5. Additional physics courses numbered above 300 to attain 61 credits.

Physics Major for Teacher Certification

Consists of a minimum of 49 credits including the following:

1. Math 120, 121, 222.
2. Physics 111, 150, 250, 300, 325, 335, 470.
3. Physics 315 or 370.
4. Astronomy 205 or 206 or 311 or physics courses numbered above 300 to attain 49 credits.

NOTE: Enrollment caps are in effect for those seeking teacher certification. Please contact the Physics Department early for entrance requirements and application procedures. Also see information about the Professional Education Program and the secondary education curriculum for teacher certification in the **Education** section of this catalog.

Academic Standards for Major

1. To be accepted as a physics major, register with the department office no later than the first semester of your junior year. To be retained and approved for graduation, you must have a 2.00 cumulative GPA (2.75 to student teach) in all courses in the major, regardless of any declaration of academic bankruptcy.
2. No more than one grade below C- in physics courses numbered 300 or above may be applied to the major.
3. If you do not meet these standards, you may petition the department chair for consideration. See the **More Academic Information** section of this catalog for the policy on repeating courses.
4. All upper division physics courses (300 and above) are open to all students who meet the prerequisites.

152 Physics

Physics Minor

1. A minimum of 25 credits including Physics 111, 150, 250, 300 and other physics courses numbered above 300. At least one elective must include a laboratory.
2. Math 120, 121, 222.
3. If you are entering a teaching field, you may select Astronomy 311 as an elective. A minor in physics is certifiable for teaching only when accompanied by a major in another science or a major in mathematics.
4. When you decide to minor in physics, register in the department office to be assured of proper advising. To be accepted as a minor you must have a minimum grade point average of 2.00 (2.75 to student teach), regardless of a declaration of academic bankruptcy. The department may grant exceptions. No more than one grade below C- in physics courses numbered 300 or above may be applied to the minor.

Notes:

1. To major or minor in physics, you should register for acceptance no later than the first semester of your junior year.
2. Physics 325, 435 will be offered first semester only in 2003-04 and 2005-06.
3. Physics 315, 335, 405 will be offered first semester only in 2004-05 and 2006-07.
4. Physics 326, 470 will be offered second semester only in 2003-04 and 2005-06.
5. Physics 370 will be offered second semester only in 2004-05 and 2006-07.
6. Physics 381 is offered second semester only. The topic rotates through astrophysics, optics, and solid-state physics.
7. You will not receive credit for a course if you have already successfully completed a similar or more advanced course in the same area. The following restrictions apply:

If you received credit for:	you cannot receive credit for:
Physics 100	Physics 101
Physics 101	Physics 100
Physics 150	Physics 100, 101, 201, 203
Physics 201	Physics 100, 101, 150, 203
Physics 202	Physics 100, 101, 204, 250
Physics 203	Physics 100, 101, 150, 201
Physics 204	Physics 100, 101, 202, 250
Physics 250	Physics 100, 101, 202, 204

Test-out, Credit-by-Exam Policy

We will offer test-out examinations for all general degree requirement (GDR) physics and astronomy. The exams will cover both lecture and laboratory topics.

If you wish to take a test-out exam, confer with the department chair who will arrange for a faculty member to administer and grade a comprehensive written exam. A passing grade will be at least five percent above the most recent class average. You will be informed of the required passing score before taking the exam. Results will be evaluated and (if appropriate) credit granted by the departmental Educational Policies Committee. You may not take an exam more than once.

Course credit can be granted for Astronomy 205, 206, 311; Physics 115, 150, 203, 204, 250. Credit will NOT be granted for Astronomy 100 and Physics 100 and 101, but the GDR science credit will be waived.

Pre-Engineering

For all pre-engineering programs except prechemical engineering, you should take the following science and mathematics courses in your freshman and sophomore years: Math 120, 121, 220, 222; Physics 150, 250, 300. Chemistry 115, 116 (or 105, 106) are also recommended. Specific engineering curricula and universities have individual requirements. See a pre-engineering adviser for additional information and suggested electives. For prechemical engineering, see **Chemistry** earlier in this catalog.

Courses in Physics

PHYS 100. Energy In Today's World. 3 cr. Basic energy concepts; energy sources and processes; projected depletion of present resources; role of conservation, research, and development; alternatives and prospects for the future. 2 hrs lec, 2 hrs lab per wk. GDR:NS

PHYS 101. General Physics. 5 cr. Fundamental principles of physics for a general audience; for students in elementary education, general education, communicative disorders, and physical education. 2 hrs lec, 1 hr disc, 4 hrs lab per wk. GDR:NS

PHYS 111. Seminar: Introduction to Physics. 1 cr; pass/fail. For students interested in a physics major/minor. Topics include careers, areas of current research, and library research techniques. Does not count toward physics requirements of natural science major.

PHYS 115. Acoustics. 4 cr. Multidisciplinary introduction to the principles of acoustics integrating information from physics, music, communicative disorders, and psychology. Topics include waves, sound, speech, hearing, resonance, harmonics, analysis and synthesis of sounds. Applications to speech production and music/musical instruments. 3 hrs lec, 2 hrs lab per wk. Does not count toward physics requirements of natural science major. Prereq: Math 100 or equiv recommended. GDR:NS

PHYS 150. University Physics I. 5 cr. Mechanics, heat, and sound. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. Prereq: Math 120, or con reg, or cons instr. GDR:NS

PHYS 201. Applied Principles of Physics I. 4 cr. Topics in mechanics, heat, and sound. 2 hrs lec, 1 hr disc, 3 hrs lab per wk. Prereq: Math 100 or equiv, or cons instr. For natural resources students.

PHYS 202. Applied Principles of Physics II. 3 cr. Topics in electricity, magnetism, optics, and modern physics. 2 hrs lec, 3 hrs lab per wk. Prereq: 201 or equiv, or cons instr. For natural resources students.

PHYS 203. College Physics I. 5 cr. Mechanics, heat, and sound. For students in general education, biology, premedical and related fields. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. Prereq: 1 yr high school algebra and 1 yr high school geometry, or equiv. GDR:NS

PHYS 204. College Physics II. 5 cr. Light, electricity and magnetism, and topics in modern physics. For students in general education, biology, premedical and related fields. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. Prereq: 203 or equiv, or cons instr. GDR:NS

PHYS 250. University Physics II. 5 cr. Electricity, magnetism, and optics. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. Prereq: 150, Math 121 or con reg or cons instr. GDR:NS

PHYS 300. Modern Physics. 3 cr. Special relativity, quantization, Bohr atom, matter waves, solutions to the one-dimensional Schroedinger equation, nuclear physics. Prereq: 250 or cons instr.

PHYS 315. Computational Physics. 3 cr. Solving problems in physics using numerical methods, programming and data manipulation software. 2 hr lec, 3 hrs lab per wk. Prereq: 250 or cons instr.

PHYS 325. Electricity and Magnetism I. 3 cr. Introduction to theory of electrostatics; potentials and fields; dielectrics. Prereq: 250, Math 220 and 222 or cons instr.

PHYS 326. Electricity and Magnetism II. 3 cr. Magnetostatics; magnetic properties of materials; Maxwell's equations; electromagnetic radiation. Prereq: 325.

PHYS 335. Advanced Mechanics. 3 cr. Vectors; rectilinear and curvilinear motions, including simple harmonic and damped vibrations; rotation of rigid bodies; Lagrangian mechanics. Prereq: 250, Math 220 and 222 or cons instr.

PHYS 370. Electronics. 4 cr. Theory, application, and practice of analog and digital electronics. 3 hrs lec, 3 hrs lab per wk. Prereq: 202 or 204 or 250 or cons instr.

PHYS 381. Selected Topics. 1-3 cr. Advanced coursework in astrophysics, optics, or solid state physics. Timetable lists topic. May repeat under different subtitles. Prereq: Cons instr.

PHYS 388. Research Participation. 1-4 cr. Investigate current problems in physics; 3-12 hrs lab per wk. For physics majors/minors. May repeat for 4 cr max. Prereq: Cons research supervisor.

PHYS 405. Quantum Mechanics (formerly 425 and 426). 3 cr. In-depth study of Schroedinger's equation, the harmonic oscillator, angular momentum, the hydrogen atom, and Dirac formalism, spin, approximation methods, selection rules, transitions, and multi-electron atoms. Prereq: 300, Math 220 and 222 or cons instr.

PHYS 435. Thermodynamics and Statistical Mechanics. 3 cr. Introduction to laws of thermodynamics and their explanation by statistical mechanics. Applications to gases, liquids, solids; boson and fermion systems; phase and chemical equilibrium. Prereq: 250, Math 222.

PHYS 470. Experimental Physics (formerly 450). 2 cr. Experiments and laboratory practice in electricity, magnetism, optics; atomic, nuclear, and solid state physics. 1 hr lec, 3 hrs lab per wk. Prereq: 300 or cons instr.

PHYS 496. Independent Study. 1-4 cr. Planned study to supplement preparation in area of specialization; regular scheduled conferences with staff supervisor. For physics majors/minors. Prereq: Cons chair.

PHYS 499. Special Work. Upperclass physics majors or minors may arrange for independent study with cons chair. Credit based on scope of project.

PHYS 796. Independent Study. 1-4 cr. Planned study to supplement preparation in area of specialization. Prereq: Maturity to work independently; must supplement current graduate work.

Physics Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

206	Basic Electricity, 3 cr, (99-01)
220	Statics, 3 cr, (91-93)
221	Dynamics, 3 cr, (91-93)
391	Digital Systems and Microprocessors I, 4 cr, (95-97)
392	Digital Systems and Microprocessors II, 3 cr, (95-97)
701	Physical Science 3-4 cr, (01-03)

Political Science (College of Letters and Science)

Jianwei Wang, Chair
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Web: www.uwsp.edu/polisci

Faculty: B Brophy-Baermann, M Brophy-Baermann, J Canfield, E Miller, J Morser, D Riley, Jianwei Wang, D Williams.

Political Science Major

Consists of at least 36 credits including:

1. Poli Sci 101 and EITHER 160(NW) or 180.
2. Poli Sci 203.
3. At least 18 credits in courses numbered 300 and above.
4. At least 3 credits in four of the following five fields.
 - a. **American politics and government:** Poli Sci 212, 242, 307, 308, 310, 315MNS, 316, 317, 320, 322, 330, 331, 332, 333, 334, 341, 408, 414MNS.
 - b. **Public policy and administration:** Poli Sci 202MNS, 250, 304EL, 306, 314, 354, 356, 358, 397, 450.
 - c. **Political theory:** Poli Sci 270, 391, 392, 393, 394, 395, 396, 497.

- d. **Comparative politics:** Poli Sci 361, 362, 364, 366, 370, 371NW, 374.
- e. **International politics:** Poli Sci 305EL, 376, 383, 385.

Recommended Emphases

Graduate School Preparation: Poli Sci 203, 397, 497; Computer Information Systems 101/102; English 250; Math 355.

Prelaw: Poli Sci 212, 320, 330, 331, 332, 333, 334, 395, 450; Accounting 210; English 250; Philosophy 315.

Public Policy and Administration: Poli Sci 202, 250, 354, 356, 358, 397; Computer Information Systems 101/102; Math 355.

Teacher Certification:

1. You need 12 credits American politics and government, including 3 credits public law and 3 credits state and local; 6 credits comparative and international; 6 credits theory including Poli Sci 203 or 497 that is required for certification by the Department of Public Instruction.
2. The DPI requires all elementary and secondary education majors to take Poli Sci 201, or 101 and 242.
3. Also see information about the Professional Education Program and the Secondary Education curriculum for teacher certification in the **Education** section of this catalog.

Political Science Minor

Consists of at least 21 credits including:

1. Poli Sci 101 and EITHER 160NW or 180.
2. At least 9 credits in courses numbered 300 and above.
3. At least 3 credits in four of the five fields listed above with the major.

Academic Standards

1. To graduate with a major in political science, you must earn a grade point average of 2.50 or higher (2.75 to student teach) in ALL courses taken in the major, including transfer courses, regardless of any declaration of academic bankruptcy. You may repeat a course in the major only if you follow the course repeat policy found in the **More Academic Information** section of this catalog.
2. Begin your study of political science by taking Poli Sci 101. Take 200 level survey courses before the 300-400 level courses in the various fields.
3. Courses in political science are open to all students who meet the prerequisites.

Credit-by-Exam Policy

The Political Science Department will grant credit for political science courses that satisfy general degree requirements if you demonstrate your competency on an authorized examination. You may attempt an exam only once.

1. For Poli Sci 101 and 201 you must receive a score of 3 or higher on the Advanced Placement (AP) test or score at or above the 50th percentile on the College Level Entrance Placement (CLEP) test.
 - a. For 201 you must also pass, with a score of at least 70 percent, a supplemental exam prepared by the department on state and local government.
 - b. If you score high enough on the AP or CLEP but not on the supplemental exam, you will receive credit for 101 but not 201.

154 Political Science

- For Poli Sci 160 you must receive a score of 3 or higher on the AP test or pass a department-authorized exam described below.
- For the remaining political science courses that meet general degree requirements you will receive access to materials from the current or most recent course. The exam will be based on recent tests from the course. The instructor will evaluate your proficiency and assign a grade of P or N based on standards outlined in the course syllabus.

Courses in Political Science

POLI 101. American Politics. 3 cr. Survey of American politics and government. May not earn credit in both 101 and 201. GDR:SS1

POLI 160(NW). Comparative Politics. 3 cr. Theories of comparative politics; study of political systems of selected Western, non-Western, and Communist countries. GDR:SS1

POLI 180. International Relations. 3 cr. Analysis of general principles and theories of international politics and organizations; emphasis on security, power, prestige, and peace. GDR:SS1.

POLI 190. Contemporary Political Issues. 1 cr; pass/fail. Critical examination of social and political implications of a major, contemporary issue. 2 hrs per wk. Subtitle will designate area. May take twice with different subtitles.

POLI 201. American Governments for Teachers. 3 cr. Survey of U.S. national, state, and local governments. For students seeking teacher certification. May not earn credit in both 201 and 101. Does not count toward a Poli Sci major or minor. GDR:SS1.

POLI 202(MNS). American Policymaking. 3 cr. Analysis of governmental policymaking; emphasis on theories of the policy process and substantive policy issues. GDR:SS1

POLI 203. Introduction to Political Analysis. 3 cr. Introduction to approaches and methods of political science research. Emphasis on research design, data collection, interpretation, and use of computers in political science. Prereq: 101 or 160 or 180 or cons instr.

POLI 212. Law and Legal Systems. 3 cr. Nature of law and legal processes as instruments of social control. Prereq: So st. GDR:SS1

POLI 242. State and Local Government. 3 cr. Analysis of political structure, functions, and behavior at subnational level; examine empirical theories that seek to explain political behavior in states and communities; emphasis on Wisconsin. Prereq: So st. GDR:SS1

POLI 250. Public Administration. 3 cr. Theory and practice of public administration in the United States. Prereq: So st. GDR:SS1

POLI 270. Theories of Politics. 3 cr. Critical survey of literature, problems and solutions in political theory; nature of political man, purposes and conceptions of government, and viability of government as a social control device. Prereq: So st.

POLI 304/504. Environmental Policy. 3 cr. Environmental quality policymaking processes and policy outputs, including statutes, agency rules, and court decisions dealing with air, water, and land; technology as problem and solution; analysis of costs, results, trends. GDR:EL

POLI 305. International Environmental Politics. 3 cr. Analysis of regional and international environmental issues, and how politics plays a role in defining and posing solutions for global ecological problems. Emphasis on rationality, interdependence, and development. GDR:EL

POLI 306/506. Health Politics and Policies. 3 cr. Focus on public policy of health care financing, delivery, access, and providers; impact of major government programs and proposed reforms; emphasis on technological change and its impact. GDR:SS2

POLI 307. Politics and the Media. 3 cr. Analysis of the role mass media play in American politics. Emphasis on relationship between media and major political institutions as well as controversies surrounding the media. Prereq: 101 or cons instr.

POLI 308. Public Opinion. 3 cr. Formation, measurement, and content of American political opinions; relationship to public policies.

POLI 310. American Presidency. 3 cr. Analyze development of the American chief executive; emphasis on 20th century presidents; nature of presidential power, its effectiveness and limitations.

POLI 315(MNS). Minority Group Politics. 3 cr. Political behavior and impact of ethnic, religious, racial and ideological minority groups in the United States. GDR:SS1

POLI 316/516. Parties and Elections. 3 cr. Description and critical examination of political parties and voting behavior in the U.S.

POLI 317/517. Political Corruption and Reform. 3 cr. Examine ethical issues surrounding elections and governing. Corruption, scandals, and reform legislation. Prereq: 101.

POLI 320/520. Legislative Process. 3 cr. Analyze forces and procedures that determine the formation of law and public policy in the United States.

POLI 322. Interest Group Politics. 3 cr. Examine interest groups and roles they play in American politics. Group formation and maintenance, lobbyists and lobbying, electioneering and campaign finance.

POLI 330. Constitutional Law: Governmental Powers and Federalism. 3 cr. American constitutional development as exemplified by Supreme Court decisions; examine selected judicial decisions interpreting the Constitution; consideration of political and governmental implications of such decisions; constitutionalism and judicial review; the commerce clause; powers of the national executive, legislative, and judicial branches; substantive due process.

POLI 331. Civil Liberties and Civil Rights. 3 cr. American constitutional development in areas of civil liberties such as speech, press, religion and assembly. Development of political civil rights such as voting and office holding; and economic and social civil rights such as access to education, the workplace and the marketplace. Prereq: 212, or 330 or cons instr.

POLI 332. Rights of Persons Accused of Crime. 3 cr. Development and contemporary state of rights guaranteed to those accused of crime in the United States. Applications of the fourth, fifth, sixth, eighth, and 14th amendments of the United States Constitution. Prereq: 212, or 330, or 331 or cons instr.

POLI 333. Theories of Constitutional Interpretation. 3 cr. Analysis of contemporary debate on constitutional interpretation, including questions of authority, meaning and substantive political issues. Prereq: 330 or 331 or 332 recommended.

POLI 334. Judicial Process. 3 cr. Nature and role of law and the judiciary in American democracy. Focus varies. Prereq: 212 or cons instr.

POLI 341. Urban Politics. 3 cr. Analyze urban governments in the U.S.; attention to governmental structures, powers, policies, and political patterns in large and small cities; emphasis on Wisconsin. GDR:SS1

POLI 354/554. Public Personnel Administration. 3 cr. Problems and practices involved in selection, training, and performance of public employees.

POLI 356/556. Government Finance. 3 cr. How U.S. national, state, and local governments determine their fiscal policies; governmental institutions and agencies involved, legislation and regulations, and the pattern of relationships affecting them.

POLI 358/558. Public Budgets. 3 cr. Determination and execution of public agency budgets; preparation, authorization, and political considerations of the government agency budget.

POLI 361/561. Western European Politics. 3 cr. Comparison of governments and politics of the United Kingdom, France, and the Federal Republic of Germany. GDR:SS1

POLI 362(NW). East European Politics. 3 cr. Political structures, processes, and institutions of Central and East Europe. Emphasis on the politics of transition and challenges to democratization. GDR:SS1

POLI 370(NW). Asian Politics. 3 cr. Political institutions, leadership, socioeconomic problems, and international relations of selected Asian countries. GDR:SS1

POLI 371(NW). Chinese Politics. 3 cr. Examine evolution, dynamics, and institutions of the political and economic system of the People's Republic of China. GDR:SS1

POLI 372(NW). African Politics. 3 cr. African governments and politics; interstate relations in Africa; Africa and world affairs.

POLI 374. Political Development. 3 cr. Analyze the dynamics and processes of political transition; emphasis on issues associated with political, economic, and psychological changes in selected third world and eastern European countries.

POLI 376. International Political Economy. 3 cr. Analyze interstate relationships with emphasis on political implications of economic concerns such as trade disputes, investment penetration, and industrial protectionism.

POLI 383. U.S. Foreign Policy. 3 cr. International and internal forces underlying U.S. foreign policy; relating U.S. aims and policies to other important states and regions of the world.

POLI 385. International Organizations and Law. 3 cr. Analyze role, structure, and functions of contemporary international organizations, the role of international law in dispute resolution.

POLI 386. Politics of Terrorism. 3 cr. In-depth analysis of the definitions and uses of terrorism; critical review of theories and cases from a wide variety of viewpoints and situations; understanding the role of the symbol of terrorism on the broader political arena.

POLI 387. International Simulation. 1-3 cr. Simulate international interactions such as trade negotiations, peace talks, and meetings of international organizations. Students act as representatives of various governments in making policies, allocating resources, and forming alliances under different scenarios. Subtitle will designate area. May repeat for 3 cr max with different subtitles. Prereq: Cons instr.

POLI 391. American Political Thought. 3 cr. Analysis of major concepts and figures in American political thinking. Emphasis on equality, individual rights, government by the consent of the governed and the right of revolution. GDR:HU3

POLI 393/593. Early Western Political Theory. 3 cr. Critical analysis of political thinkers of the Western World from the pre-Socratics through the Medieval Period, such as Protagoras, Socrates, Plato, Aristotle, Cicero, St. Augustine, St. Thomas, and Machiavelli. GDR:HU3

POLI 394/594. Modern Western Political Theory. 3 cr. Critical analysis of political thinkers of the Western World from the Reformation to the Contemporary period, such as Luther, Calvin, Bodin, Montesquieu, Hobbes, Locke, Rousseau, Burke, Hume, Bentham, Mill, Hegel, Marx, and Lenin. GDR:HU3

POLI 395/595. Topics in Contemporary Political Theory. 3 cr. Advanced analysis of current problems and topics in political theory.

POLI 396/596. Radical and Utopian Politics. 3 cr. Selected revolutionary movements, leading actors in revolutionary dramas, and radical and utopian blueprints of future societies.

POLI 397/597. Methods of Policy Analysis. 3 cr. Systematic methods, techniques, and tools for public policy evaluation; policy analysis as service to decision makers, analysts in the policy and political processes. Prereq: 202 or 314, statistics, or cons instr.

POLI 408(MNS). Politics and Popular Culture. 3 cr. Analyze intersection of politics and popular culture and how they shape and influence one another. Methods for analyzing popular culture. Critical media consumption is encouraged.

POLI 414(MNS). Politics of Race, Class and Gender in the U.S. 3 cr. Examine causes and consequences of American political discord over race, class and gender and how this discord manifests itself in and emanates from the laws our society creates to manage conflict, distribute resources, and parcel out value preferences. Prereq: 101.

POLI 450. Administrative Law. 3 cr. Study of rules and procedures that govern administrative decision making; Administrative Procedure Act and leading Supreme Court cases.

POLI 455. Internship in Government. 1-6 cr. Work with a local, regional, state, or federal agency under instructor's supervision and complete a research paper. Credits set by instructor.

POLI 490/690. Selected Problems in Political Science. 3 cr. Examine problems in political thought or political activities. Subtitle will designate topic.

POLI 497/697. Methods of Political Science Research. 3 cr. Examine political science as a discipline by using the materials, approaches, methods, and modes of presentation of contemporary research.

POLI 498. Honors Thesis. 3 cr. Prepare research paper under faculty direction. Prereq: 9 credits honors courses plus cons chair and supervising faculty member.

POLI 499. Special Work. 1-3 cr. Upperclass political science majors and minors may arrange for independent study with cons chair. Credit based on scope of project.

POLI 790. Selected Problems in Political Science. 3 cr. Graduate seminar investigating an area of political science. Subtitle will designate area. May repeat for credit with different subtitle.

POLI 796. Special Work. 1-3 cr. Graduate students may arrange for special out-of-class work with cons chair. Credit based on scope of project.

Political Science Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

211	Practical Law, 3 cr, (87-89)
309	Tribal Government in the United States, 3 cr, (87-89)
312	Law and Native Americans, 3 cr, (87-89)
314/514	Public Policy Issues, 3 cr, (01-03)
351/551	Organization Theory and Practice, 3 cr, (87-89)
364/564	Russian Politics, 3 cr, (01-03)
366	Nationalism and Ethno-Politics, 3 cr, (01-03)
384/584	Russian Foreign Policy, 3 cr, (01-03)
454	Problems of Local Govt Administration, 3 cr, (87-89)
***	Political Science Honors Program (97-99)

POLYMER CHEMISTRY

See *Chemistry*.

Prenursing (College of Professional Studies) in cooperation with UW-Eau Claire

Susan Raab, Coordinator
Room D-127, Science Building
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Through an agreement with St. Joseph's Hospital, Marshfield, UW-Eau Claire, UW-Stevens Point, and the UW Colleges, you can complete a bachelor of science in nursing degree from UW-Eau Claire.

You spend the first two years at UW-Stevens Point. Following your sophomore year, you complete an eight week summer session on the UW-Eau Claire campus. You spend the last four semesters at St. Joseph's Hospital, Marshfield. This segment of nursing education consists of instruction and practical experiences.

The nursing degree is awarded by UW-Eau Claire. General degree requirements for UW-Eau Claire are satisfied through the following courses here at UW-Stevens Point.

- 1. General education requirements:**
Communication 101.
English 101, 102.
Foreign Language, 8 credits.
Math 355.
Psychology 110, 260.
Social Sciences, 11 credits in at least 4 disciplines.
Humanities, 11 credits in at least 4 disciplines.
Wellness, 1 credit of aerobic activity (A/A) and 1 credit of health enhancement (HE).
- 2. Major support courses:** Biology 160, 285, 286, 333; Chemistry 105; Clinical Lab Sci 105, 295.
- 3. Nursing courses:** 52 credits are offered through St. Joseph's Hospital via distance education technology and through use of on-site instructors. Five credits of nursing courses must be completed during a summer session at UW-Eau Claire.

For more complete information about the prenursing program and admission to the UW-Eau Claire professional nursing program, please contact the nursing coordinator in the Clinical Lab Science Office.

PROFESSIONAL EDUCATION PROGRAM

See *Education*.

Psychology

(College of Letters and Science)

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Faculty: D Elsenrath, M Fang, R Franiuk, A Gervasio, H Hekmat, JD Holmes, S Holmes, M Plonsky, J Reeder, T Rowe, J Rueb, P Sudevan, R Weis.

Definition: Psychology is the study of structures and processes involved in neural and mental activity, behavior, emotion, and consciousness. It also includes the study of biological and environmental influences on intellectual, personality, and social development; healthy and unhealthy mental states; and biopsychosocial influences on health status.

Psychology Major

Consists of 37 credits:

1. Psych 110, 300, 389 (take 300 before 389).
2. At least three courses from each group:
 - a. Psych 260, 301, 320, 351.
 - b. Psych 325, 330, 331, 375.
3. Nine additional elective psychology credits that may include courses from a and b above, not already used.

Psychology Major with Concentration in Human Services

Consists of at least 43 credits, including:

1. The requirements for the major as defined above.
2. Psych 350, 351, 401, 402, 480, and 482. You may use these courses to fulfill the required 9 elective credits in the psychology major (3 above).

Enrollment priority for practicum courses (402, 482) goes to students who have completed 350, 351, 401, and 480.

Psychology Minor

Consists of 18 credits in psychology, including Psych 110.

Psychology Minor for Secondary Teacher Certification

Consists of 25 credits:

1. Psych 110, 300, 351, 389.
2. Choose one from each of the four groups:
 - a. Psych 260 or 320.
 - b. Psych 301 or 452.
 - c. Psych 331 or 375.
 - d. Psych 325 or 330.

Academic Standards

To be approved for graduation with a major in psychology, you need a minimum cumulative grade point average of 2.25 in all courses taken in psychology, regardless of a declaration of academic bankruptcy. Transfer students meet this requirement by having at least a 2.25 cumulative GPA in the total major and at least a 2.25 cumulative GPA in psychology courses taken at UWSP.

The School of Education requires a grade point average of at least 2.75 in the major and minor fields for admission to student teaching and 3.00 for teaching internship. Enrollment caps are in effect for those seeking teacher certification. Please contact the Psychology Department early for entrance requirements and application procedures. Also see information about the Professional

Education Program and the secondary education curriculum for teacher certification in the **Education** section of this catalog.

Credit-by-exam is available for Psych 110 and 260 if you receive a score that is equal to or greater than the 50th percentile on the General Psychology and Developmental Psychology CLEP examinations. CLEP testing is done in the Testing Center in Delzell Hall.

Credit-by-exam is available for Psych 240, 255, 260, 290, 320, and 330 if you receive a score that is equal to or greater than 70 percent of items on the departmental test-out exam.

You are not eligible for test-out if you are currently enrolled in the course. You may take a test-out exam only once.

Courses in Psychology

PSYC 110. Introduction to Psychology. 3 cr. Introduction to the scientific study of behavior and mental processes, and methods used in psychological research. GDR:SS1

PSYC 198. Reading in the Discipline. 1 cr; pass/fail. Improve critical reading and thinking skills. Taken in conjunction with designated sections of psychology courses. Prereq: Cons instr.

PSYC 240. Psychology of Women. 3 cr. Research and theory concerned with women's personality, roles, and capacity; emphasis on socialization and sex role development. Prereq: 110. GDR:SS1

PSYC 250. Psychology of Adjustment. 3 cr. Nature of adjustment and conditions related to mental health in normal persons. Prereq: 110.

PSYC 255. Psychology of Sexual Behavior. 3 cr. Psychological aspects of sexual behaviors, responses, and attitudes, including psychosexual development, varieties of sexual experience, basic physiology, sexual problems and therapy, and psychological factors in contraception, conception, pregnancy, and childbirth. Prereq: 110. GDR:WL/HE

PSYC 260. Introduction to Developmental Psychology. 3 cr. Survey growth and development; physical, perceptual, cognitive, linguistic, emotional, and social development; emphasis on human development from conception through adulthood. Prereq: 110. GDR:SS1

PSYC 275. Canine Behavior. 3 cr. Evolution, history, sensory abilities, social behavior, learning and methods of dog training. Behavior problems and ways dogs work with and help people. Prereq: 110.

PSYC 280. Consciousness. 3 cr. Psychological-neurophysiological research and theories about various states of consciousness, such as sleep, dreams, mental imagery, and mystical states; altering consciousness through hypnosis, psychedelic drugs, biofeedback and meditation. Prereq: 110.

PSYC 285. Parapsychology. 3 cr. Empirical and theoretical analysis of abnormal (anomalous) transfer of information (extrasensory perception); anomalous physical effects (psychokinesis). Survival experiences such as out-of-body, near-death, and apparitional experiences. Reincarnation phenomena. Prereq: 110.

PSYC 290. Psychoactive Drugs and Behavior. 3 cr. Introduction to psychopharmacology; examine effects of commonly used drugs on the central nervous system, behavior, and the motivation for administration, consumption, and abuse of legal and illegal drugs. Prereq: 110 or cons instr. GDR:WL/HE

PSYC 293. Computers in Psychology. 3 cr. Variety of computing skills specific to psychology: file management, word processing, spreadsheets, basic statistics, graphics, electronic mail, Internet. Prereq:110.

PSYC 295. Career Development in Psychology. 1 cr; pass/fail. Explore and prepare for careers and professions in psychology. Readings and activities to help understand fields of psychology, planning for graduate school, graduate school search and application processes, curricular/extracurricular preparation for baccalaureate level occupations, and resume development. Prereq: Psych major.

PSYC 300/500. Statistics for Psychologists. 4 cr. Calculation and interpretation of measures of central tendency, variability, correlation, and regression in psychological research; hypothesis testing and estimation from large and small samples; analysis of variance; forms of experimental design. 3 hrs lec, 2 hrs lab per wk. Prereq: 110, and Math 100 or a suitable placement text score.

PSYC 301. Theories of Personality. 3 cr. Contemporary approaches to the study of behavior; clinical and experimental contributions to the understanding of the personality and its structure. Prereq: 110.

PSYC 315. The Psychology of Adolescence. 3 cr. Behavior of adolescents; how physiology and culture determine personality; adjustment problems youth encounter in society. Prereq: 110.

PSYC 320. Social Psychology. 3 cr. Individual behavior as a function of social environment; how learning, cognition, motivation, and perception affect interpersonal behavior development. Prereq: 110. GDR:SS1

PSYC 321. Environmental Psychology. 3 cr. Empirical and theoretical relationships between human behavior and experience and the physical environment; environment perception; environmental influences on individual development and social interaction; interaction with natural and built, rural and urban environments. Prereq: 110. GDR:EL

PSYC 322(MNS). Cross-Cultural Psychology. 3 cr. Examine theoretical and methodological foundations of cross-cultural psychology through study of human behavior in a broad international perspective. Prereq: 110.

PSYC 323. Applied Social Psychology. 3 cr. Theory and application of social psychological principles. Overview of research methods in applied settings, esp. survey techniques. Explore creation of and evaluate programs designed to address consumer behaviors and mass media influence, forensic interviews and courtroom applications, political and business leadership, and environmental/conservation problems. Prereq: 110 and 320.

PSYC 325. Physiological Psychology. 3 cr. Introduction to biological bases of behavior. Nervous system function and its relation to behavior, perception, motivation and thinking. May include behavioral endocrinology, behavioral genetics, evolutionary psychology, and psychopharmacology. Prereq: 110.

PSYC 330. Perception. 3 cr. Fundamental concepts of perception involving all the senses, with emphasis on hearing and vision; experimental findings, theoretical interpretations, and demonstrations relating to perception. Prereq: 110. GDR:SS1

PSYC 331. Cognitive Psychology. 3 cr. Topics in human cognition including sensory memory, pattern recognition, selective attention, working memory, semantic memory and connectionist models, speech production and comprehension, semantic and syntactic theories, language acquisition, concept attainment, problem solving and artificial intelligence. Prereq: 110.

PSYC 332. Topics in Cognition. 3 cr. Discuss theoretical and experimental research in area of cognition such as attention, memory, psycholinguistics or thinking. Subtitle will designate area. May apply 3 cr max to major. Prereq: 110; 331 recommended.

PSYC 335. Motivation. 3 cr. Theoretical determinants of motivation related to learning, memory, homeostasis (ability to maintain equilibrium), instinct, emotion, and other behaviors. Prereq: 110.

PSYC 345. Industrial/Organizational Psychology. 3 cr. Job analysis; selecting, training, and evaluating workers; employee motivation and morale; leadership and organizations; fatigue and safety in the working environment; consumer behavior; engineering psychology. Prereq: 110.

PSYC 350. Psychological Assessment. 3 cr. Introduction to psychological assessment and norm-referenced testing. Psychometrics, test construction, and validation. Contemporary intelligence, achievement, interest, and personality tests and behavioral assessment techniques. Prereq: 110, 300, or Math 355, or cons instr.

PSYC 351. Abnormal Psychology. 3 cr. Research-based study of the classification, causes, origins (etiology), and treatment of the major psychological disorders including anxiety and mood disorders; schizophrenia; personality disorders, childhood problems, sexual dysfunctions, and neurological disorders. Prereq: 6 cr in psych and jr st; or cons instr.

PSYC 360/560. Behavior and Learning Disorders in Children. 3 cr. Introduction to child and adolescent psychopathology. Includes causes, course, and treatment of developmental disorders, learning disorders, internalizing disorders, and externalizing behavior problems in childhood. Emphasis on developmental psychopathology. Prereq: 260 or cons instr.

PSYC 375/575. Learning. 3 cr. Simple and complex learning, including conditioning, sensory-motor learning, language learning, problem solving; emphasis on contemporary theories. Prereq: 110.

PSYC 385/585. Health Psychology. 3 cr. Contribution of environmental and psychological factors to the causes, treatment, and prevention of disease. Prereq: 110.

PSYC 389. Experimental Psychology. 3 cr. Introduction to principles of experimental design with practice in conducting research, analyzing results, and writing research reports. 2 hrs lec, 2 hrs lab per wk. Prereq: 300.

PSYC 390. Psychology of Religion. 3 cr. Seminar on psychology of western religious experience. Read, discuss, write about classic texts such as Freud's *Future of an Illusion*, James' *Varieties of Religious Experience*, and Frankl's *Man's Search for Meaning*. Prereq: 389 or cons instr.

PSYC 399/599. Special Work. Upperclass psychology majors and minors and other qualified students may arrange for independent study. Credit based on scope of project. Prereq: Cons instr and chair.

PSYC 400. Advanced Experimental Psychology. 3 cr. Theory and techniques of advanced experimental design and methods of statistical analysis; consolidation through practice and procedures acquired in 389 including independent research. 2 hrs lec, 2 hrs lab per wk. Prereq: 389.

PSYC 401/601. Introduction to Counseling and Psychotherapy. 3 cr. Major approaches to counseling and psychotherapy; theory, research, evaluation, and demonstration. Prereq: 110 and cons instr for nonmajors, 301 and 351 recommended.

PSYC 402/602. Practicum in Counseling and Psychotherapy. 3 cr. Clinical application of theory and research in counseling and psychotherapy. Develop professional ethics, attitudes, behaviors, communication, and intervention skills essential to the therapeutic interview. Student counseling interviews are videotaped and critiqued. Prereq: 401 and cons instr.

PSYC 452. History, Systems, and Contemporary Issues. 3 cr. History of major systems and areas of psychology; current trends of theory and research; senior paper required. Prereq: Sr st; 389 or cons instr.

PSYC 485/665. Psychology of Late Adulthood. 3 cr. Psychological processes, behavior, and aging; methods of studying the aging process; research paper or experience working with the elderly required. Prereq: 110 and cons instr.

PSYC 480/680. Behavior Modification. 3 cr. Clinical application of behavior theory and research in the treatment of phobias, anxiety, depressions, delinquencies, psychosis, language and other behavior disorders, including such topics as desensitization therapies, assertive training, token economics, biofeedback, and self-control. Prereq: 110; 351 recommended.

PSYC 482/682. Practicum in Behavior Therapy. 3 cr. Clinical application of behavior modification principles in the treatment of behavior disorders. Prereq: 480 and cons instr.

PSYC 485/685. Behavioral Medicine. 3 cr. Theory, research, and assessment of psychological factors that contribute to the causes of specific disorders. Topics: hypertension, coronary prone behavior, obesity, pain, and sleep disorders. Prereq: 480/680 or cons instr.

PSYC 490. Seminar: Fields of Psychology. 2 or 3 cr. Discussion of psychology theory and research. Subtitle will designate area. May repeat for credit with different subtitles. Prereq: 110 and cons instr.

PSYC 491/691. Workshop. 1-5 cr. Subtitle will designate area. May repeat for credit with different subtitles.

PSYC 494. Human Services Internship. 1-6 cr. Field experience in human services agencies or activities under direction of field placement supervisors and psychology faculty. May repeat for 9 cr max. Prereq: 351, 401, psych major, jr st, 2.5 cum & psych GPA, cons instr, and con reg in 495.

PSYC 495. Human Services Internship Seminar. 1 cr. Weekly professional seminar meetings. Review professional practice standards, critique case study presentations, discuss professional ethics. Prereq: Con reg in 494.

PSYC 796. Special Work. Advanced graduate students may arrange for specialized independent study with cons instr, chair, and chair of major department. Credit based on scope of project.

Psychology Latent Courses: Not offered recently. See (xx-xx) catalog.
 310/510 Cognitive Processes, 3 cr.
 340 Comparative Psychology, 3 cr, (93-95)
 361/561 Mental Retardation/Develop Disabilities, 3 cr, (93-95)
 393 Genocide: Psycho-Historical Foundations, 3 cr, (91-93)
 460/660 Developmental Psychology Seminar, 3 cr, (93-95)

Public Administration and Policy Analysis

(College of Letters and Science)

Jianwei Wang, Chair of Political Science Department
Room 484, Collins Classroom Center
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Public administration and policy analysis is an interdisciplinary program, offering both a major and a minor, administered by the Political Science Department. For students interested in public service or graduate education.

Public Administration and Policy Analysis Major

Consists of 40 credits distributed as follows:

1. **Government**, 6 credits: Poli Sci 101, 242.
2. **Principles**, 9 credits: Poli Sci 202, 250; Econ 210.
3. **Functional areas**, 9 credits from: Poli Sci 354, 356 or Econ 311, Poli Sci 358, 450, Business 380 or 386.
4. **Tools of analysis**, 7 credits: Poli Sci 397 and 4 credits of statistics from Econ 310 or Math 355 or Psychology 300 or Sociology 351.
5. **Electives**, 9 credits selected from one of the groups listed below. A course used to fulfill a requirement in Sections 1-4 above MAY NOT also be used to fulfill a requirement in this section.
 - a. **Public policy**: Econ 315, 328; Soc 260; Poli Sci 212, 304, 306, 308, 314, 317, 320, 414, 455.
 - b. **Public planning**: Geography 276, 370, 372, 373; Natural Resources 480; Poli Sci 341, 455; Sociology 260, 356, 357; Econ 374.
 - c. **Human resources administration**: Business 347; Econ 345, 346; Poli Sci 315, 354, 455; Psych 345, 350, 401; Sociology 270, 310, 315.
 - d. **Natural resources and the environment**: Econ 342; Geography 340, 368; History 366; Natural Resources 370, 371, 372, 388, 389, 473; Philosophy 380; Poli Sci 304, 305, 455.
 - e. **Public finance administration**: Acct 210, 211, 312, 370; Econ 311, 328; Poli Sci 356, 358, 455.
6. **Recommended**: Poli Sci 455 internship.

Public Administration and Policy Analysis Minor

Consists of 25 credits.

1. **Government**, 6 credits: Poli Sci 101, 242.
2. **Principles**, 6 credits: Poli Sci 202, 250.
3. **Functional areas**, 6 credits from: Poli Sci 354, 356, 358, 450, Business 380.
4. **Tools of analysis**, 7 credits: Poli Sci 397 and 4 credits of statistics from Econ 310 or Math 355 or Psych 300 or Sociology 351.

Academic Standards

To graduate with a major in public administration and policy analysis, you must earn a grade point average of 2.50 or higher in ALL courses taken in the major, including transfer courses, regardless of any declaration of academic bankruptcy. You may repeat a course in the major only if you follow the course repeat policy found in the **More Academic Information** section of this catalog. Courses in public administration and policy analysis are open to all students who meet the prerequisites.

PUBLIC RELATIONS

See *Communication*.

REGIONAL ANALYSIS AND COMMUNITY DEVELOPMENT

See *Geography*

Religious Studies

(College of Letters and Science)

Donald E. Fadner, Chair of Philosophy Department
Room 489, Collins Classroom Center
Phone: 715-346-3340
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Web: www.uwsp.edu/philosophy

Faculty: C Demsey, D Fadner, A Keefe; J Lewis (adjunct).

Courses in **religious studies** are administered by the Philosophy Department.

Definition: Religious Studies is the cross-cultural and comparative examination of humanity's diverse religious traditions, without privileging the truth-claims of any particular tradition.

Philosophy Major with Concentration in Religious Studies

Consists of a minimum of 33 credits including:

1. **Philosophy core**, 12 credits.
 - a. Logic: Phil 121 or 322.
 - b. Content areas: Three additional courses in philosophy. Two must be at 300 level.
2. **Religious studies concentration**, 21 credits. At least 12 must be 300 level or above.
 - a. Non-Western religions: One course from Rel Std 100, 105, 316, 333 if not used in 2c, 340, 341, or Phil 105.
 - b. Western religions: One course from Rel Std 101, 303, 304, 311, or 330.
 - c. Approaches to the study of religion: One course from Rel Std 301, 302, 321, 333 if not used in 2a, or Anthropology 320.
 - d. Senior seminar: Rel Std 450.
 - e. Electives: A minimum of 9 additional credits from religious studies or collateral courses in anthropology, history, and philosophy. Collateral courses must be approved by religious studies coordinator or department chair.

Religious Studies Minor

Consists of a minimum of 18 credits. At least 9 credits must be at the 300 level.

1. At least one course selected from each group:
 - a. Non-Western religions: Rel Std 100, 105, 316, 333 if not used in 1c, 340, 341, or Philosophy 105.
 - b. Western religions: Rel Std 101, 303, 304, 311, or 330.
 - c. Approaches to the study of religion: Rel Std 301, 302, 321, 333 if not used in 1a, or Anthropology 320.
2. Electives: A minimum of 9 additional credits from religious studies and one or more from the following areas: anthropology, history, and philosophy. Collateral courses must be approved by religious studies coordinator or department chair.

Religious Studies Minor for Teacher Certification

Consists of a minimum of 22 credits. In addition to the 18 credits in the minor above, take one extra religious studies course and one credit of REL 399 focused on practical matters of teaching religious studies in primary or secondary schools.

Academic Standards

1. To ensure that your program is as well planned as possible, you must have a religious studies adviser.
2. You must have your adviser's approval for all courses you select to apply to the major or minor.
3. To be accepted and retained as a major or minor and approved for graduation, you must have a minimum grade point average of 2.50 (2.75 to student teach) in courses counted toward the major or minor, including transfer courses and regardless of any declaration of academic bankruptcy. Courses taken pass/ fail or with a grade lower than C- may not be counted toward the major or minor. The chair of the department may allow exceptions. You may repeat a course in the major or minor only if you follow the policy on repeating courses found in the **More Academic Information** section of this catalog.
4. Courses in religious studies are open to all students who meet the prerequisites.

Courses in Religious Studies

REL 100(NW). Religions of the World: Eastern. 3 cr. Survey ideas and practices of major Eastern religions: Hinduism and Buddhism. GDR:HU3

REL 101. Religions of the World: Western. 3 cr. Survey ideas and practices of major Western religions: Judaism, Christianity, Islam. GDR:HU3

REL 102(MNS). The Ways of Religion. 3 cr. Cross-cultural survey of common patterns in religious experience and expression, with specific consideration of creative adaptations to American culture made by ethnic and religious minorities. GDR:HU3

REL 105(NW). Myths of Creation. 3 cr. Study sacred stories of people living before or outside the Judeo-Christian spheres of influence that represent the creation of their physical and social worlds. GDR:HU3

REL 199. Reading in the Discipline. 1 cr; pass/fail. Improve critical reading and thinking skills. Taken in conjunction with designated sections of religious studies courses.

REL 301. Contemporary Religious Thought. 3 cr. Major themes of Western religious traditions as addressed in the works of significant 20th century thinkers. GDR:HU3

REL 302. Religion and Cultural Conflict. 3 cr. Explores questions of the nature and function of religion in a context of situations of cultural conflict and change. May include colonialism and post-colonialism, millenarian movements, religion and violence, religion and politics, and global fundamentalism. GDR:HU3

REL 303. Introduction to the Old Testament. 3 cr. Study Old Testament literature in the context of its historical and cultural background. GDR:HU3

REL 304. New Testament and Early Christianity. 3 cr. Study selected New Testament and extra-biblical texts to discern religious perceptions shaping various early Christian movements. GDR:HU3.

REL 311(MNS). Religion in America. 3 cr. Examine beliefs, practices, and interactions of diverse religious traditions represented in the United States (e.g. Native American, Hispanic, Protestant, African, American, Catholic, Jewish, Asian, Muslim). GDR:HU3

REL 316(NW)(MNS). Native American Religions. 3 cr. Examine religious ideas and practices of selected Native American tribes. GDR:HU3

REL 321. Studies in Religion. 3 cr. Topics in the study of religion in human life and culture. Subtitle will designate area. May repeat for credit with different subtitles. GDR:HU3

REL 330. Female Images and Myths in Religion. 3 cr. Investigate attitudes toward women in Western religious traditions and various responses of contemporary women to these traditions. GDR:HU3

REL 333. Women and Goddesses in India. 3 cr. Study of women's roles, notions of female power, and goddesses in Hindu tradition.

REL 399. Independent Study. 1-3 cr. Individual work in religious studies on a special problem, theme, thinker, or period may be arranged with instructor and cons chair. Credit based on scope of project.

REL 340(NW). Buddhism. 3 cr. Study of Buddhist religious traditions in their historical and cultural contexts. Relevance of Buddhism for addressing problems in the modern world such as war, environmental degradation, and social injustice. GDR:HU3

REL 341(NW). Religions of India. 3 cr. Study Hindu deities, practices, and philosophies including comparison of Indian and U.S. Hinduism, and Hinduism's influences on Indian Christianity. GDR:HU3

REL 450. Selected Topics. 3 cr. Major issues in the academic study of religion and culture. Subtitle will designate topic. May repeat under different subtitles.

Religious Studies Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

107	Religious Autobiographies, 3 cr, (01-03)
300	The Development of Christian Thought, 3 cr, (83-85)
305	Prophets and Prophecy, 3 cr, (95-97)
310	Religion and Moral Problems, 3 cr, (01-03)
315	Religion in Literature, 3 cr, (95-97)
331	Myth of the Hero, 3 cr, (01-03)

Research

RSCH 798. Thesis Research. 0 cr. Continuation of thesis research of half time or more. May enroll only twice. Prereq: Approval of grad adviser and grad program coordinator.

RESOURCE MANAGEMENT

See **Natural Resources - Human Dimensions of Natural Resource Management.**

R.O.T.C.

(Reserve Officers Training Corps)

See **Military Science.**

RUSSIAN

See **Foreign Languages.**

SAFETY & HEALTH PROTECTION

See **Health Promotion and Human Development.**

Scientific and Technical Writing

(College of Letters and Science)

Wm. John Coletta, Coordinator
Room 433, Collins Classroom Center
Phone: 715-346-4749
E-mail: jcoletta@uwsp.edu

An interdisciplinary minor in **scientific and technical writing** is administered by the English Department.

Scientific and Technical Writing Minor

Consists of 24 credits. At least 12 credits must be 300 level or higher.

1. Required: English 254, 349, 354, 365.
2. Required emphasis: choose 6 credits from ONE area below:
 - a. **Computer Graphics:** choose ONE sequence from:
 - 1) Communication 221, 322.
 - 2) Art 200 and 350 or 400.
 - 3) Art 400, 450.
 - 4) Art 207, and one course approved by the coordinator.
 - 5) Six credits in consultation with coordinator.
 - b. **Natural Resources:** NRES 320, 363, 364, 477.
 - c. **Natural Science:** 6 credits from science courses designated Writing Emphasis (WE), such as: Geography 380, Chemistry 338, 346, 496; CIS 358. You may use other WE science courses with coordinator approval.
3. Electives: 6 credits from the following with coordinator approval: Communication 321, 365, 391; English 350, 351, 352, 358, 379, 399, 498; Forestry 350; Natural Resources 365, 370, 390, 412. You may also use courses listed in 2 above that you did not use as required courses.
4. Collateral information.
 - a. Meet general degree requirements for natural science by using science courses 101 or above.
 - b. CIS 101 and 102 are highly recommended.

SECONDARY EDUCATION TEACHER CERTIFICATION

See **Education**.

SEMESTER ABROAD

See **International Programs** in the **More Academic Information** section of this catalog.

Small City Analysis

(College of Letters and Science)

Edward J. Miller and Robert P. Wolensky, Coordinators
Room 451 and Room 476, Collins Classroom Center
Phone 715-346-3130, 346-2708
E-mail: emiller@uwsp.edu OR rwolensk@uwsp.edu
Web: www.uwsp.edu/polisci/smallcity/center.html

Small City Analysis Minor

Consists of a minimum of 25 credits:

1. **Core courses, 12 credits:**
 - a. Required: 6-12 credits from Econ 374; Geography 373; NRES 388 or 389; Poli Sci 341; Sociology 300, 356.

- b. Electives: 0-6 credits from Forestry 333; Geography 370, 372, 378, 496; NRES 474, 495; Poli Sci 242; Sociology 357, 360.
2. **Analytic skills, 9 credits:**
 - a. Computer science: At least 3 credits from CIS 101-102, 115-116, 300.
 - b. Research methods: 2-3 credits from Econ 310; Geography 276, 279, 476; Poli Sci 203, 497; Sociology 351, 352; Psychology 300; Math 355.
 - c. Policy analysis/management: 3 credits from Business 380; Poli Sci 250, 397.
3. Internship or independent research on small cities: 3 credits from Poli Sci 455, 499; Sociology 497 or 498; Geography 395, 399, 480 or 491, or NRES 499.
4. Seminar or colloquium on small cities: one credit approved by one of the coordinators.

Social Science

(College of Letters and Science)

Sarah (Sally) Kent, Coordinator
Room 422, College of Professional Studies Building
Phone: 715-346-2334
E-mail: history@uwsp.edu OR skent@uwsp.edu

The social science major is available with or without teacher certification. If you are working toward teacher certification, select alternative A or B listed below in order to meet Wisconsin certification requirements for high school social studies teachers. Also see information about the Professional Education program and the Secondary Education curriculum for teacher certification in the **Education** section of this catalog.

Social Science Major

Without teacher certification consists of the following:

1. Complete a minor. Choose from anthropology, economics, history, political science, sociology.
2. Earn 6 or more credits in each of three social science fields listed below, but do not include the field you have selected for your minor:
 - a. Anthropology.
 - b. Economics.
 - c. Geography (human), consisting of Geography 110, plus 3 credits in human geography courses numbered 300 or above.
 - d. History (in addition to history credits necessary to meet the general degree requirements).
 - e. Political Science.
 - f. Psychology.
 - g. Sociology.
3. Sufficient additional credits to total 45 or more, with at least 15 in courses numbered 300 or above.

Broad-Field Social Science Major for Teacher Certification (Secondary/Middle)

Consists of a minimum of 54 social science credits from the following subjects: anthropology, economics, geography (human), history, political science, psychology and sociology. Select alternative A or B.

Alternative A:

1. A certifiable major (minimum of 34 credits) in one of the subject areas listed above and
2. A minimum of 20 credits distributed over at least two of the other social science subjects.
3. At least 12 credits must be in history and/or political science.

Alternative B:

1. A certifiable minor (minimum of 22 credits) in one of the social science subjects listed above and
2. A minimum of 32 credits distributed over at least three of the other social science subjects.
3. At least 12 credits must be in history and/or political science.

This "broad-field" social science major will permit teaching in the major field, the minor field, and the fusion courses. (The fusion courses are those drawn from several of the social science disciplines and, therefore, require a composite preparation in social science. Fusion courses include civics, social problems, American problems, area studies, vital issues, etc.) In addition, broad-field social science majors may be certified to teach in any of the social science disciplines in which they have completed 9 credits.

For certification in the "broad-field" social sciences, Wisconsin statutes require instruction in conservation and cooperatives. These requirements (normally Economics 210 or 272, and Natural Resources 370) are described in the **Education** section of this catalog.

Social Science Minor

Without teacher certification consists of 24 credits, 6 credits in each of the following social studies areas:

1. **Economics.** Required: Econ 210; Elective: Econ 211 or any 3 credit course numbered 300 or above approved by the social science adviser.
2. **Geography.** Required: Geography 110; Elective: any 3 credit course in human geography numbered 300 or above approved by the social science adviser.
3. **Political science.** Required: Poli Sci 101; Elective: any 3 credit course numbered 300 or above approved by the social science adviser.
4. **Sociology and anthropology.** Required: Sociology 101; Elective: any 3 credit course numbered 300 or above approved by the social science adviser.

Broad-Field Social Science Minor

This minor is open only to elementary education majors and is for DPI certification to teach ages six through 12-13. It consists of at least 24 credits as follows:

1. History, 9 credits: History 130 or 211; 107 or 108; and 3 credits from 215, 216, 219, 220, 253, or 254.
2. Political Science 160.
3. Geography 113 or 120.
4. Sociology 102.
5. At least 6 credits from Economics 210, Sociology 101, Anthropology 101.

Academic Standards

1. To graduate with a major in social science you must have a 2.0 cumulative GPA (**without** teacher certification) and a 2.75 cumulative GPA (**with** teacher certification) in all major required courses, including transfer courses, regardless of any declaration of academic bankruptcy.
2. No more than two courses for which you earned a D or D+ may be repeated for credit in the major. See the **More Academic Information** section of this catalog for the policy on repeating courses.
3. Courses in the social science major (without teacher certification) are open to all students who meet the prerequisites.
4. Enrollment caps may be enforced for admission into the Professional Education Program for certification in broad-field social science. See your adviser or the coordinator of the program for more information.

Sociology

(College of Letters and Science)

Robert Enright, Chair
Room 488, Collins Classroom Center
Phone: 715-346-3060
E-mail: sociology@uwsp.edu
Web: www.uwsp.edu/sociology

Faculty: E Bishop, A Boelk, E Clark, D DeBoer, R Enright, D Forbes, G Itzkowitz, G Skelton, A Smart, K Throckmorton, R Wolensky.

Definition: Sociology is the systematic study of human societies and social groups. Sociologists study the workings of social organizations, institutions, and cultures, as well as their influence on the social behavior of individuals.

Sociology Major

Consists of a minimum of 34 sociology credits including:

1. Required: Sociology 101, 350, 351, 352.
2. Earn at least 18 credits in courses numbered 300 and above.
3. Complete remaining credits from any electives.
4. For teacher certification in sociology, the requirements are the same as above. Also see the **Education** section earlier in this catalog for additional requirements for teacher certification and admission to the Professional Education Program.

Sociology Emphasis Areas

In addition to a major in sociology, you may select an emphasis consisting of 9 or more credits in a specified area. The emphases are:

1. **Deviance/social control:** 230, 306, 332, 333, 368.
2. **Family/socialization:** 224, 225, 240, 322, 343.
3. **Community/environment:** 300, 355, 356, 357, 360.
4. **Social work:** 261, 262, 316, 361, 362, 363, 364, 365, 376, 494, 495.

Adult Life and Aging Concentration for Sociology Majors

Consists of a minimum of 15 credits.

1. At least 9 credits from Sociology 366, 467, 492-493 (in approp area), 494-495 (in approp area), 497-499 (in approp area).
2. Cognate courses: at least 6 credits from Economics 328, Family and Consumer Education 390, Psychology 465. (These courses do not count toward the sociology major.)

Applied Sociology Concentration for Sociology Majors

Consists of 16 credits.

1. Required: Sociology 327, 340, 492, 493.
2. Electives, 6 credits from at least one area:
 - a. Gerontology: Sociology 366, 467, Psychology 465 (does not count toward sociology major).
 - b. Deviance/social control: Sociology 230, 306, 332, 368.
 - c. Family: Sociology 224, 225, 240, 332, 343.
 - d. Environment/population/community: Sociology 300, 355, 356, 357, 360.

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Gerontology Minor

Consists of 24 credits.

1. Required: Sociology 366 and 467, Psychology 465.
2. Electives: Select 15 credits from the following. No more than 6 credits may be from any one discipline: Communicative Disorders 352, Economics 328, Family and Consumer Education 390, Food and Nutrition 458, Health Promotion/Wellness 305, PEX 319, Political Science 306, Psychology 385, Sociology 328, 360, 492-493 (in approp area), 494-495 (in approp area), 497-499 (in approp area).

Native American and Rural Social Work Minor

Consists of 31 credits.

1. Required core courses, 25 credits: Sociology 261, 361, 362, 363, 364, 365, 376, 494, 495.
2. Electives, 6 credits from: Sociology 240, 262, 270, 300, 306, 310, 316, 368.

Social Science in Health Minor

Consists of 24 credits.

1. Required core, 12 credits from: Anthropology 380, Philosophy 302, Political Science 306, Psychology 385, Sociology 368.
2. Electives, 9 credits from at least two areas below, but 6 credits max from any one area.
 - a. Biology 285.
 - b. Clinical Lab Science 105, 295, 385.
 - c. Economics 328.
 - d. Health Education 345.
 - e. Food and Nutrition 253, 351, 353.
 - f. Psychology 485.
 - g. Sociology 327, 328, 366.
3. Administration/analytical, 3 credits from: Political Science 250, 397; Sociology 352.
4. Recommended, one course from Math 355, Psychology 300, Sociology 351.

Sociology Minor

Consists of 18 credits.

1. Required: Sociology 101 and 350.
2. Electives: 12 credits in sociology courses.

Sociology Minor for Teacher Certification

Consists of 25 credits.

1. Required: Sociology 101, 350, 351, 352.
2. Electives: Additional 12 sociology credits numbered 300 or above.

Academic Standards

1. To be retained, approved for graduation, or accepted as a major or minor at the beginning of your junior year, you must have a minimum grade point average of 2.00 (2.75 to student teach) in the major, including transfer courses, regardless of any declaration of academic bankruptcy. You may repeat a course in the major if you follow the course repeat policy found in the **More Academic Information** section of this catalog. The chair may allow exceptions on a conditional basis.
2. You may petition the chair to accept coursework done at other institutions, but no more than one-half the credits applied to your major may be earned outside this university. The chair may allow modifications.
3. You may take courses out of normal class level sequence only if you have approval from your adviser and instructor.

4. If you are preparing for specialized graduate studies, a professional school, or a specific career, you should request assignment to an adviser who is knowledgeable in that area to help you select your study program.

Test-Out and Credit-by-Exam Policy

You will receive course credit for Sociology 101 if you take the Introduction to Sociology CLEP exam and receive a score equal to or greater than the 50th percentile. You must arrange to take the CLEP exam with Testing Services in Delzell Hall.

Test-out (not course credit) is available for Sociology 102, 224, 225, 230, 240, 270, 300, 310, 316, 327, 343, 355, 360, 366, 368. After you confer with the department chair about a course, the faculty member who teaches the course will prepare a comprehensive exam and define the passing score for you before you take the test. You may take a test-out exam only once. You are not eligible for test-out if you are currently enrolled in the course.

Courses in Sociology

SOC 100. Forum In Sociology or Social Work. 1 cr; pass/fail. Lecture and discussion of current social issues or topics in sociology or social work. Subtitle will designate area. May repeat with different subtitles for 3 cr max. 2 hrs per wk or equiv.

SOC 101(MNS). Introduction to Sociology. 3 cr. Sociology as a special field of social science, social relations, and social systems; the organization of societies and other human groupings; fundamentals of sociological investigation, dealing with the underlying premises, concepts, logic, and methods of sociology. GDR:SS1

SOC 102(MNS). Social Problems. 3 cr. Theories explaining social and personal disorganization and deviation; selected contemporary problems analyzed and related to their social contexts. GDR:SS1

SOC 224. Sociology of Childhood. 3 cr. Socialization processes in the early years; impact of social and cultural forces on child-rearing practices and outcomes; child welfare. Prereq: 101 or 102. GDR:SS1

SOC 225. Sociology of Adolescence. 3 cr. Socialization processes in the adolescent years; impact of social and cultural forces on adolescent issues and problems. Prereq: 101 or 102. GDR:SS1

SOC 230. Criminology. 3 cr. Analysis of crime as an institution, with reference to the behavior of those who define, engage in, or become the victims of criminal behavior. Prereq: 101 or 102. GDR:SS1

SOC 240. Marriage and the Family. 3 cr. Institutional variations of marriage and family; contributions of behavioral sciences to understanding the processes of courtship and marriage interaction. Prereq: 101 or 102. GDR:SS1

SOC 261. Introduction to the Field of Social Work. 3 cr. Development of social welfare; contemporary public and private programs and appropriate settings; philosophy and principles of social work. Prereq: 101 or 102, or cons instr.

SOC 262. Social Welfare Policies and Programs. 3 cr. Development and philosophy of social welfare as an institutional system; critical analysis of programs, policies and issues; their interrelationship with other aspects of the social system. Prereq: 261 or cons instr.

SOC 270(MNS). Minority Groups. 3 cr. The role of minorities in society, their influence, impact, and relationship to the larger society. Prereq: 101 or 102 or cons instr. GDR:SS1

SOC 300. The American Community. 2 or 3 cr. Community organization and social processes that influence community behavior and change. Prereq: 101 or 102 or cons instr. GDR:SS1

SOC 306. Social Aspects of Substance Abuse. 3 cr. Social aspects of alcohol, cocaine, heroin, and other drugs. Emphasis on prevention, cause, treatment, and social policies. Prereq: 101 or cons instr.

SOC 310. Social Psychology. 3 cr. How social learning and habits relate to the development of the social self in groups: interaction, perception, motivation, attitudes, values, communication, roles in interpersonal relations. Prereq: 101 or 102 or cons instr. GDR:SS1

SOC 316(MNS). Child Welfare. 3 cr. Social, cultural, historical, and legal aspects of child welfare. Examine principal child welfare services (supportive, supplementary, and substitutive), and their effects on Native American and other minority cultures. Prereq: 101 or cons instr.

SOC 322. Culture and Personality. 3 cr. How literate and nonliterate cultures and subcultures affect personality development.

SOC 327. Social Inequality. 3 cr. Analyze patterns of inequality in the distribution of power, rewards, and opportunities between classes and other groups. Prereq: 101 or 102 or cons instr. GDR:SS1

SOC 328. Poverty, Welfare, Social Insurance. 2 or 3 cr. Study poverty in the U.S.; income maintenance programs including social security, unemployment insurance, workers' compensation, pension plans, and social assistance; health insurance. May not earn credit in both 328 and Econ 328. Prereq: 9 credits in sociology or Econ 210 or cons instr.

SOC 332. Juvenile Delinquency. 3 cr. Definition and sociological explanations of juvenile delinquency; individual and gang forms; control and treatment. Prereq: 101 or 102 or cons instr.

SOC 333. Corrections. 3 cr. Control and treatment of offenders. Prereq: 230 or 332.

SOC 340. Community Research. 3 cr. Methods and practice of applied research in community-based organizations. Prereq: 101.

SOC 343(NW). The Family: Cultural Perspectives. 3 cr. The family as social institution, its place in different cultures and social strata, impact of industrialization and urbanization. Prereq: 101 or 102 or cons instr.

SOC 350/550. Sociological Theory. 3 cr. History, content, construction, and application of sociological theories. Prereq: 101 or cons instr.

SOC 351/551. Social Statistics. 4 cr. Descriptive and inferential statistics; use statistical software to analyze sociological data. 3 hrs lec, 2 hrs lab per wk. Prereq: Math 100 or equiv, Sociology 101, 350 or cons instr.

SOC 352/552. Research Methods. 3 cr. Examine and apply social research processes from problem formulation to data analysis; includes computer applications. Prereq: 350 and 351 or cons instr.

SOC 355. Environmental Sociology. 3 cr. Sociological perspectives on relationships between society and the natural environment emphasizing causes and consequences of natural resource depletion and environmental degradation. Prereq: 101, or cons instr or jr st. GDR:SS2 EL

SOC 356. Urban Sociology. 3 cr. Comparative and historical approach to cities; urban spatial structure, temporal patterns and population characteristics; ecological factors; social structure and psychological aspects of urban metropolises; implications for policy and planning. Prereq: 101 or 102 or cons instr.

SOC 357. Sociology of Planning. 3 cr. Social context of policymaking and planning process; theoretical approaches to planning; planning and social change; specific topics in planning (city and regional, social service, environment). Prereq: 101 or 102 or cons instr.

SOC 360. Population Problems. 3 cr. Demography, population theory, trends, and analysis; United States and world population. Prereq: 101 or 102 or Econ 210. GDR:SS1;EL

SOC 361. Social Work Methods: Casework and Group Work. 3 cr. Principles of generic social work in microsystems; concepts and casework practice with individuals and families, interviewing, relationships, social diagnosis, and treatment; group work practice, principles of model development, diagnosis, and treatment. Prereq: 261.

SOC 362. Social Work Methods: Community Organization and Social Service Administration. 3 cr. Principles of generic social work in macrosystems including planning, action, and advocacy; social service administrative concerns including relationships between organizations, and issues within the organization including supervision, consultation, research, and continuing education. Prereq: 261.

SOC 363. Rural Social Work. 3 cr. Evaluation of nonmetropolitan, regional social services and delivery systems; characteristics of rural populations and community analysis; concept and function of generalist social worker in nonmetropolitan areas. Prereq: 261 or cons instr.

SOC 364. Orientation to Native American Social Work. 3 cr. Introduction to values, beliefs, customs, and histories of Native Americans emphasizing Wisconsin tribal nations and their social service needs. Prereq: 261.

SOC 365. Social Work with Native American and Other Culturally Diverse Families. 3 cr. Awareness and understanding of Native American values and lifestyles; principles of social work that apply to problems affecting Native American and other culturally diverse families. Prereq: 261, 364.

SOC 366. Sociology of Aging. 3 cr. Sociological theories and methods used to study aging; processes affecting the social status of older

people and social attitudes toward them; the impact of increasing numbers of elderly on institutions of American society. Prereq: 101 or 102 or cons instr. GDR:SS2

SOC 368. Sociology of Mental Health. 3 cr. Sociological perspectives and interpretations in the nature and causes of mental disorders. Theories of controlling mental illness, the development of mental health policies in the United States and strategies of preventive and community psychiatry. Prereq: 101 or 102 or cons instr. GDR:SS2

SOC 376. Human Behavior and the Social Environment. 3 cr. Theories of interaction between individuals and the social environment that apply to the practice of social work. Prereq: 261.

SOC 395. Special Topics in Sociology. 1-3 cr. Subtitle will designate area. May repeat for credit with different subtitles. Prereq: 3 cr in sociology or cons instr.

SOC 467/667. Social Gerontology. 3 cr. Critical issues in social gerontology; emphasis on industrialized societies; analysis of techniques for implementing programs and policies relating to the older population. Prereq: 9 cr in the social sciences or cons instr.

SOC 492. Applied Sociology Practicum. 3-6 cr. Observation and applied sociology practice under the guidance of cooperating field placement supervisors in an approved social service agency; emphasis on guided applied sociology. Sociology majors may apply for placement with cons field coordinator and chair. Prereq: Sr st.

SOC 493. Applied Sociology Practicum Seminar. 1 cr. Weekly meetings to discuss application of applied sociology practice theory to the agency setting. May repeat for 4 cr max. Prereq: Con reg in 492.

SOC 494. Social Work Practicum. 3-6 cr. Observe and practice social work under guidance of cooperating field placement supervisors in an approved social service agency; emphasis on guided social work. Sociology majors may apply for placement with cons field coordinator and chair. Prereq: 361 and con reg in 495.

SOC 495. Social Work Practicum Seminar. 1 cr. Weekly meetings to discuss application of social work practice theory to the agency setting, and to increase knowledge and identification with social work profession. May repeat for 4 cr max. Prereq: Con reg in 494.

SOC 497-499. Special Work. Each 1-3 cr. Upperclass sociology majors or minors may arrange for independent study with cons chair. Credit based on scope of the project. May apply 6 cr max to major.

497. Sociological Analysis and Research.

498. Social Work and Social Administration.

499. Sociology of Knowledge.

SOC 760. Seminar in Adult Development and Socialization. 2 or 3 cr. Advanced study of adult development and socialization topics. For development and administration of midlife and late maturity programs. Prereq: 9 cr in social sciences or cons instr.

SOC 796. Independent Study. 1-3 cr. Designed to supplement preparation in area of specialization. Prereq: 9 cr in social sciences and cons chair.

SOC 799. Thesis. 2-6 cr.

Sociology Latent Courses: Not offered recently. Full description in (xx-xx) catalog.

265 Social Problems of Aging and Old Age, 3 cr, (99-01)

295 Special Topics in Sociology, 1-3 cr, (99-01)

302 Political Sociology, 3 cr, (99-01)

305 Minority/Majority Relations, 1 cr, (99-01)

308/508 Sociology of Medicine, 3 cr, (99-01)

311 Collective Behavior, 2-3 cr, (99-01)

312 Propaganda and Public Opinion, 3 cr, (99-01)

315 Group Dynamics, 3 cr, (99-01)

358 Regional Sociology, 2-3 cr, (99-01)

359 Bureaucracy, 3 cr, (99-01)

367 Sociology of Middle Age, 3 cr, (99-01)

370 Processes of Sociocultural Change, 3 cr, (99-01)

373 Technology and Contemp Social Probs, 3 cr, (99-01)

460/660 Sociology of Work, Leisure, and Retirement, 3 cr, (99-01)

468/668 Problems in Family Interaction, 3 cr, (99-01)

490/690 Seminar: Fields of Sociology, 2-3 cr, (99-01)

500 The American Community, 2-3 cr, (01-03)

506 Social Aspects of Substance Abuse, 3 cr, (01-03)

527 Social Inequality, 3 cr, (01-03)

555 Environmental Sociology, 3 cr, (01-03)

561 Social Work Methods, 3 cr, (01-03)

568 Mental Health, 3 cr, (01-03)

SOIL and WASTE RESOURCES

See *Natural Resources*.

SPACIAL ANALYSIS AND GEOGRAPHIC INFORMATION SYSTEMS

See *Geography*.

SPANISH

See *Foreign Languages*.

SPECIAL EDUCATION

See *Education* and/or *Health, Exercise Science, and Athletics*.

SPEECH

See *Communication*.

SPEECH PATHOLOGY AND AUDIOLOGY

See *Communicative Disorders*.

STUDENT TEACHING

See *Education*.

SUMMER CAMP

See *Natural Resources*.

TEACHER CERTIFICATION

See *Education*.

TEACHING ENGLISH AS A SECOND LANGUAGE

See *Foreign Languages*.

TECHNICAL WRITING

See *Scientific and Technical Writing*.

TECHNOLOGY & NEW MEDIA ARTS

See *Web and Digital Media Development*.

Theatre and Dance (College of Fine Arts and Communication)

Kenneth Risch, Chair
Room B-109, Fine Arts Building
Phone: 715-346-4429
E-mail: theatre@uwsp.edu
Web: www.uwsp.edu/theatre-dance

Faculty: S Gingrasso, J Karlen, P Luedtke, R Nelson, G Olsen, K Risch, ST Smith, SG Sherwin, SH Sherwin, A Shorter.

Definition, Theatre: Incorporating elements of all the other fine arts, dramatic art (theatre) is a study of human action and interaction designed to enlighten and/or entertain an audience through theatrical presentation.

Definition, Dance: Dance is the study of human movement as a means of expression through the development of performance and choreography skills, separately and in relation to the other arts.

About the Department

Recognized as one of the premiere undergraduate theatre and dance departments in the upper Midwest, our program is an accredited member of the National Association of Schools of Dance and the National Association of Schools of Theatre.

Program Options

You may pursue either the bachelor of arts (BA) or bachelor of science (BS) degree in theatre arts with an option in dance or drama.

If you seek more specialized education in theatre, you may pursue the bachelor of fine arts (BFA) in theatre arts with options in drama or musical theatre. The BFA drama option has specializations in acting and design/technology.

Minors are available in dance and drama. There is no musical theatre minor.

Academic Standards

To be retained as a major or minor in any of the theatre arts options and to be approved for graduation, you must have a minimum grade point average of 2.75 in all courses taken within the major or minor, including transfer courses, regardless of any declaration of academic bankruptcy. You may repeat a course in the major or minor if you follow the course repeat policy found in the **More Academic Information** section of this catalog.

Credit-by-Exam Policy

The Theatre and Dance Department offers credit-by-exam for specific courses. If you wish to take the test-out exam, contact the department chair to arrange an exam with the appropriate faculty member. If credit is granted, results will be forwarded to Registration and Records.

Transferring Credits

You may apply transfer credits to the major or minor with the approval of the department chair.

Annual Meetings

As a theatre and dance major or minor, you are expected to attend the departmental meeting held at the beginning of the fall semester.

Advising

You will be assigned a faculty adviser whose specialty matches your area of interest. The dance coordinator advises all new and transfer dance majors and minors. Thereafter, you are assigned to one of the other dance faculty. If you are a BA, BS, or BFA theatre major, your adviser is the program coordinator or other faculty in your major. Drama minors are advised by the department chair.

Course Fees

Fees are charged in certain courses to cover the cost of materials.

Scholarships

The department has a limited number of scholarships available for entering students in dance, drama, acting, design/technology, and musical theatre. Contact the department Web site or theatre and dance office for information about annual scholarship auditions. Scholarships are also available for continuing students.

Required Practicum

For Majors: Register for a practicum **each semester**. Practicum areas are scene shop, costume shop, deck run crew, costume run crew, house/public relations, design, performance, directing/choreography/management. You may repeat an area after you have completed 6 different activities.

For Minors: Register for a different practicum **once each year**. You may not repeat an area.

For Majors and Minors:

1. Run crew must work appropriate rehearsals and the run of the show.
2. Other activities must complete 40 hrs of work.
3. Credit for practicum includes Dance 226, 426, or Theatre 226, 426, as appropriate.
4. If you do not register for a practicum or do not complete the activity satisfactorily, you will be placed on probation and must make up the missed work in the next semester. If you must make up missed work, you must also register for a practicum for the current semester. If the work is not made up, you will be dropped from the major or minor.
5. Normally a practicum may only count in the current semester. If a production occurs unusually late in a semester, the practicum for that production may count for the following semester.

DANCE

Susan Gingrasso, Dance Coordinator
Room B106, Fine Arts Center
Phone: 715-346-2500
E-mail: dance@uwsp.edu
Web: www.uwsp.edu/theatre-dance/dance/

About the dance program

The National Association of Schools of Dance accredits the dance program. Our curriculum features ballet, jazz, tap, theatre dance, modern, dance composition and theoretical studies. Dance majors complete 48 credits including the senior-level Interdisciplinary Seminar, a course that integrates dance with other academic disciplines and art forms, broadens your employment potential, and contributes to your total educational experience. After completing the core requirements, you may take selected performance classes for either two or three credits. We encourage you to pursue an additional major or minor in another field. Dance minors complete 27 credits.

Admission, scholarship, retention requirements

1. To be eligible for admission to UWSP's dance program as a major or minor, you must successfully complete an on-campus performance audition in the spring.
2. The dance program awards one \$1000 scholarship to a high school senior pursuing a dance major, based on ability and potential in dance.
3. Admission into the dance program does not guarantee admission into the university. To audition, you must first be eligible for admission to UWSP. Applications for admission and scholarships are available from the department office and at www.uwsp.edu/theatre-dance/dance.
4. To continue as a major or minor, you must meet the dance program's retention criteria and successfully complete performance juries each semester.
5. A limited number of performance scholarships are awarded annually to continuing students.

Performance and choreography

The dance program provides multiple opportunities to perform and choreograph including required practicum participation; *Afterimages*, a student directed fall concert; the *Danstage* concert in spring; *Players*, a student organization; *Centertainment Productions*; and all main stage and studio musical and dramatic shows.

Employment opportunities

The interdisciplinary focus of our dance program trains you to be innovative in finding and creating employment opportunities. Recent graduates perform on Broadway; with national dance companies; and in television, commercials and film. Others have become dance videographers, formed dance companies, opened private studios, and developed dance/arts programs for school districts.

Courses for general university students

We encourage general university students to enroll in dance courses to experience the joy of dancing and appreciate the value of dance as an art form. Dance 103, 105, 112, and 114 are open to all university students. You may apply one credit of each approved performance course toward the wellness/aerobic activity general degree requirement.

Dance courses for the community

If you are not a university student, you may take selected performance and theory courses if you meet the required technical level; space is available in the class; the instructor grants approval; you enroll as a UWSP special student; and you take the class for credit.

Dance Option of Theatre Arts Major (BA/BS)

Consists of 48 credits.

1. **Core, 18 credits:**
 - a. Dance 104, 106.
 - b. Three credits from Dance 205, 206, 305, 306 (placement exam required for entrance).
 - c. Six credits of Dance 214 and 314.
 - d. Three credits of Dance 215.

NOTE: We recommend that if you are interested in continuing your dance studies, you should take two core classes per semester and participate in summer dance workshops to expand your network of professional performance contacts.
2. **Theory, 10 credits:** Dance 220, 328, 352, 420.
3. **Performance and choreography, 14 credits:** Dance 201, 212, 301, 302 and one course from Theatre 242, 243, 346, 349.
4. **Interdisciplinary seminar:** Dance 496.
5. **Electives:** 3 credits from Dance 203, 204, 303, 304.
6. **Required practicum:** See description above.

Dance Minor in Theatre Arts

Consists of 27 credits.

1. **Theoretical studies, 6 credits:** Dance 220, 352.
2. **Performance and choreography, 12 credits:** Dance 104, 106, 201, and 301.
3. **Electives:** 9 credits from Dance 203, 204, 205, 206, 212, 214, 215, 303, 304, 305, 306, 314, or 420.
4. **Required practicum:** See description above.

DRAMA

Kenneth Risch, Coordinator
Room B109, Fine Arts Center
Phone: 715-346-4429
E-mail: theatre@uwsp.edu
Web: www.uwsp.edu/theatre-dance

Drama Option of Theatre Arts Major (BA/BS)

Choose this option if you wish to gain general knowledge in a variety of theatre courses: acting, design, directing, theatre history, and dramatic literature, but also wish to take selected specialized courses in one theatre area that interests you.

Admission Policy: To major in the BA/BS drama option, you must be admitted to the university AND the drama program. Admission to the drama program is by application, essay and interview. Interviews are held in the spring for fall acceptance and you must be officially admitted to UWSP before your assigned interview date. If you are a high school student, you should apply to the department in the fall of your senior year. If you are a transfer student or continuing UWSP student, you must also apply. Contact the Department of Theatre and Dance for more information.

Curricular Requirements (Drama BA/BS)

Consists of 44 credits.

1. Theatre 146, 149 or 172, 160 or 170, 162, 351, 352, 375, 452; one course from Dance 103, 105, 112, 114, or 212.
2. Nine credits from: Theatre 241, 242, 243, 244, 327, 346, 490.
3. Electives: 9 credits approved by adviser. Up to 3 elective credits may be from Theatre 226-426.
4. Practicum: See description above.

Drama Option of Theatre Arts Major (BFA)

Choose this option if you wish to pursue intensive training in either acting or design/technology in order to become a theatre professional in your chosen area of interest.

ACTING

Admission audition required: Admission to the BFA acting program is by audition only. Auditions are held in the spring for fall acceptance. You must be officially admitted to UWSP before your assigned audition date. Apply early since the number of students accepted into the program is limited. If you are a transfer student and wish to enter the acting program, you should audition before transferring to UWSP. Contact the Department of Theatre and Dance for more information.

Retention in the program: Every BFA acting major will meet with performance faculty at the end of each semester for a comprehensive evaluation of classroom and performance work. If you do not demonstrate satisfactory progress or do not adhere to the retention standards established by the department, you may be placed on departmental probation or dropped from the major.

Required auditions: BFA acting majors must audition for all faculty directed mainstage and studio theatre productions and accept roles as assigned.

DESIGN/TECHNOLOGY

Admission Interview required: Admission to the design and technology program is by audition interview. Interviews are held in the spring for fall acceptance and you must be

officially admitted to UWSP before your assigned interview date. Apply early since the number of students accepted into the program is limited. If you are a transfer student and wish to enter the design/technology program, you should interview before transferring to UWSP. Contact the Department of Theatre and Dance for more information.

Retention in the program: You will be formally reviewed each semester. If you do not demonstrate satisfactory progress or do not adhere to the retention standards established by the department, you may be placed on departmental probation or dropped from the major.

Curricular Requirements (Drama BFA)

Consists of 78 credits.

1. Theatre 146, 162, 160 or 170, 351, 352, 375, 452.
2. Complete ONE area of specialization.
 - a. **Acting.** Theatre 172, 232, 233, 244, 282, 332, 380, 381, 382, 384, 429 (6 cr), 481, 482; Dance 112 or 212, and 13 elective credits approved by your adviser. Up to 3 elective credits may be from Theatre 226-426.
 - b. **Design and technology.** Theatre 149, 241, 242, 243, 244, 345, 347, 445, 448, 497 and
 - 1) 15 credits from Theatre 341, 342, 343, 346, 348, 349, 399, 446, 449, 492, up to 3 credits from Theatre 226-426; and
 - 2) 12 elective credits approved by your adviser.
3. Practicum: See description above.

Drama Minor in Theatre Arts

Consists of 24 credits:

1. Theatre 146, 162, 160 or 170; 6 credits from 351, 352, 452; 12 credits of department electives. Up to 2 elective credits may be from Theatre 226-426.
2. Practicum: See description above.

MUSICAL THEATRE

Musical Theatre Option of Theatre Arts Major (BFA)

Choose this option if you are a multitalented performer and wish to pursue a professional career in musical theatre. The program requires study in three primary areas: acting, dance, and voice, as well as courses in music theory, piano, theatre, and musical theatre history.

Admission audition required: Admission to the BFA musical theatre program is by audition only. We strongly encourage high school students to apply during their senior year. If you are a transfer student, you should audition before transferring to UWSP. Contact the Department of Theatre and Dance for more information.

Retention in the program: You will be formally reviewed each semester. You must participate each semester in at least one public performance in mainstage, studio or Players productions, performance forums or publicly performed class projects. If you do not demonstrate satisfactory progress in the program or do not adhere to the established retention standards, you may be placed on departmental probation or dropped from the major.

Required auditions: Musical theatre majors must audition for all faculty directed mainstage and studio theatre productions and accept roles as assigned.

Curricular Requirements (Musical Theatre)

Consists of 78 credits.

1. **General courses**, 9 credits: Theatre 146, 162, 452.
2. **Acting**, 19 cr: Theatre 170, 172, 282, 384, 481, 484.
3. **Dance**, 10 credits: Dance 103, 105, 112, 114, 212.
4. **Voice**, 14 cr: Theatre 131, 231, 232, 233, 331, 431.
5. **Piano**, 4 credits: Music 158.
6. **Musical Theatre**, 16 credits: Theatre 110, 111, 129-229 (4 cr.), 361, 362.
7. **Electives**: 6 credits approved by your adviser.
8. **Practicum**: See description above.

Courses in Dance

Notes: If you take a dance course for credit as a wellness course to meet general degree requirements, it will NOT be counted in with the other 120 credits required for a degree.

If you major or minor in dance, you must complete 120 credits for graduation IN ADDITION TO sufficient credits to meet the wellness requirement.

- DNCE 103. Modern A.** 2 cr. Introduction to basic modern dance technique and performance concepts. Does not count toward BA/BS dance major requirements. 3 hrs per wk. GDR:WL/AA
- DNCE 104. Modern IB.** 3 cr. For majors and minors. Continuation of 103. Fundamentals of modern dance concepts and techniques. 4 hrs per wk. May repeat once with cons instr for 6 cr max. Prereq: 103 or test out. GDR:WL/AA
- DNCE 105. Ballet A.** 2 cr. Introduction to the basic ballet technique and performance concepts. Does not count toward BA/BS dance major requirements. 3 hrs per wk. GDR:WL/AA
- DNCE 106. Ballet IB.** 3 cr. For majors and minors. Continuation of 105. Fundamentals of ballet concepts and techniques. 4 hrs per wk. May repeat once with cons instr for 6 cr max. Prereq: 105 or test out. GDR:WL/AA
- DNCE 112. Theatre Dance and Tap I.** 2 cr. Theatre dance forms, with beginning period styles of jazz and tap. 3 hrs per wk. GDR:WL/AA
- DNCE 114. Jazz I.** 2 cr. Introduction to beginning level jazz technique and performance skills. 3 hrs per wk. GDR:WL/AA
- DNCE 201. Composition I.** 3 cr. Explore basic elements and styles of movement and text through improvisation. 4 hrs per wk.
- DNCE 203. Modern IIA.** 2-3 cr. Master intermediate level modern dance techniques and performance concepts. 4 1/2 hrs per wk. Enroll for 3 cr as part of core. May enroll for 2 cr after core. May repeat for 6 cr max. Prereq: 104 and placement exam, or test out. GDR:WL/AA
- DNCE 204. Modern IIB.** 2-3 cr. Master intermediate level modern dance technique and performance concepts. 4 1/2 hrs per wk. Enroll for 3 cr as part of core. May enroll for 2 cr after core. May repeat for 6 cr max. Prereq: 104 and placement exam, or test out. GDR:WL/AA
- DNCE 205. Ballet IIA.** 2-3 cr. Master intermediate level ballet technique and performance concepts. 4 1/2 hrs per wk. Enroll for 3 cr as part of core. May enroll for 2 cr after core. May repeat for 6 cr max. Prereq: 106 and placement exam, or test out. GDR:WL/AA
- DNCE 206. Ballet IIB.** 2-3 cr. Master intermediate level ballet technique and performance concepts. 4 1/2 hrs per wk. Enroll for 3 cr as part of core. May enroll for 2 cr after core. May repeat for 6 cr max. Prereq: 106 and placement exam, or test out. GDR:WL/AA
- DNCE 212. Theatre Dance and Tap 2.** 2 cr. Theatre dance forms with beginning period styles of jazz and tap. Continuation of 112. 3 hrs per wk. Prereq: 112 or test out. GDR:WL/AA
- DNCE 214. Jazz II.** 2-3 cr. Master intermediate level jazz technique and performance skills. 4 hrs per wk. Enroll for 3 cr as part of core. May enroll for 2 cr after core. May repeat for 6 cr max. Prereq: 106, 114 or test out. GDR:WL/AA
- DNCE 215. Tap II.** 2-3 cr. Master intermediate level tap technique and performance skills. 4 hrs per wk. Enroll for 3 cr as part of core. May enroll for 2 cr after core. May repeat for 6 cr max. Prereq: 104, 112 or test out. GDR:WL/AA
- DNCE 220. Movement Analysis and Theory I.** 3 cr. Experience, observe and analyze the language of movement through body, effort, space and shape with application to performance. Introduction to motif writing and skeletal and muscular systems.

- DNCE 226. Theatre Practicum for Dancers.** 0-1 cr. Assigned participation in theatre and dance production. Required for all dept majors. See "Required Practicum" above. May repeat each course 3 times for credit.
- DNCE 227. Dance Workshop.** 1-6 cr. Subtitle will designate area (tap, jazz, pointe, partnering, fundamentals of rhythm, et al). May repeat for credit with different subtitles. Prereq: Cons instr.
- DNCE 301. Composition II.** 3 cr. Explore small group forms through studies in time, space, dynamics, and musical forms. 4 hrs per wk. Prereq: 201 or cons instr.
- DNCE 302. Composition III.** 3 cr. Emphasis on solo forms including a review of modernism, post-modernism and site-specific work in dance composition. Prereq: 201 and 301.
- DNCE 303. Modern IIIA.** 2-3 cr. Master advanced level modern dance technique and performance concepts. 4 1/2 hrs per wk. Enroll for 3 cr as part of core. May enroll for 2 cr after core. May repeat for 6 cr max. Prereq: 104 and placement exam, or test out. GDR:WL/AA
- DNCE 304. Modern IIIB.** 2-3 cr. Master advanced level modern dance technique and performance concepts. 4 1/2 hrs per wk. Enroll for 3 cr as part of core. May enroll for 2 cr after core. May repeat for 6 cr max. Prereq: 104 and placement exam, or test out. GDR:WL/AA
- DNCE 305. Ballet IIIA.** 2-3 cr. Master advanced level ballet technique and performance concepts. 4 1/2 hrs per wk. May repeat for 6 cr max. Prereq: 106 and placement exam, or test out. GDR:WL/AA
- DNCE 306. Ballet IIIB.** 2-3 cr. Master advanced level ballet technique and performance concepts. 4 1/2 hrs per wk. Enroll for 3 cr as part of core. May enroll for 2 cr after core. May repeat for 6 cr max. Prereq: 106 and placement exam, or test out. GDR:WL/AA
- DNCE 314. Jazz III.** 2-3 cr. Master advanced level jazz technique and performance skills. 4 hrs per wk. Enroll for 3 cr as part of core. May enroll for 2 cr after core. May repeat for 6 cr max. Prereq: 106 and 214 or test out. GDR:WL/AA
- DNCE 327. Dance Workshop.** 1-6 cr. Subtitle will designate area (tap, jazz, pointe, partnering, fundamentals of rhythm, et al). May repeat for credit with different subtitles. Prereq: Cons instr.
- DNCE 328. Career Seminar.** 1 cr. Survey of career options in dance.
- DNCE 352. Dance History II.** 3 cr. Development of dance in a cultural, philosophical and political context from 1930 to the present including culturally diverse American dance forms. GDR:HU1
- DNCE 399. Special Work.** 1-6 cr. Students may arrange for independent study on individual or group projects with cons instr and chair. Credit based on scope of the project. Subtitle will designate area.
- DNCE 420. Teaching Theories and Practices.** 3 cr. Introduction to the theories and practices of teaching dance. Observe, demonstrate, and practice teach beginning level classes. Prereq: 220, jr st or cons instr.
- DNCE 426. Theatre Practicum for Dancers.** 0-1 cr. Assigned participation in theatre and dance production. Required for all dept majors. See "Required Practicum" above. May repeat each course 3 times for credit.
- DNCE 428. Dance Internship.** 1-6 cr. Supervised field experience with a cooperating agency in fields related to dance. Prereq: Cons dance coordinator.
- DNCE 496. Interdisciplinary Seminar.** 3 cr. Advanced seminar experience integrating dance with other academic disciplines; including video dance and multimedia technology. Culminates in final performance or research project. Prereq: 201, 301, 302.
- Dance Latent Courses:** Not offered recently. See (xx-xx) catalog.
 115 Tap I, 2 cr, (99-01)
 221 Movement Analysis and Theory II, 3 cr, (99-01)
 315 Tap III, 2-3 cr, (99-01)
 351 Dance History I, 3 cr, (99-01)
 409/609 Dance Midwest, 2 cr, (01-03)

Courses in Theatre

- THEA 105. Theatre Appreciation.** 3 cr. Introductory study of the theatre; what it is and has been. Study plays, playwrights, and various theatre crafts. GDR:HU1
- THEA 110. Music Theory for Musical Theatre Performers I.** 3 cr. Music theory fundamentals: pitch recognition and notation, scales, triads, intervals, rhythm, vocabulary; introduction to harmonic and structural analysis and four-part writing. Lab section includes applied musicianship skills: sight singing, group singing, basic keyboard skills.

THEA 111. Music Theory for Musical Theatre Performers II. 3 cr. Extension of written, keyboard, and vocal musicianship skills in techniques of harmonic and structural analysis, four-part writing, transposition, and investigation of musical theatre styles.

THEA 129-429. Performance Laboratory. 1-6 cr. Intensive laboratory experience in performance techniques. Subtitle will designate area. May repeat for credit with different subtitles.

THEA 131. Vocal Training I. 1 cr. Private voice lessons for musical theatre performer. Prereq: Cons instr and program coordinator. May repeat once for credit.

THEA 146. Introduction to Theatre Technology. 3 cr. Study and application of materials and techniques for costume construction and stagecraft. Costume: introduction to basic process, skills and equipment required and used in construction of theatrical costumes. Stagecraft: stage equipment, rigging, woodworking tools, scale drawings, scenic and lighting design presentations, lighting systems, properties, and production organization. 6 hrs lec and/or lab per wk.

THEA 149. Introduction to Theatrical Design. 3 cr. Beginning design techniques: drafting, sketching, rendering. 3 hrs lec and/or lab per wk.

THEA 160. Introduction to Acting. 3 cr. Beginning acting course for nonacting majors to encourage imagination, self-expression, communication, and a fundamental understanding of the acting process.

THEA 162. Script Analysis. 3 cr. Fundamentals of analysis for the actor, designer, or director.

THEA 170. Fundamentals of Acting I. 3 cr. Beginning acting course for performance majors to explore fundamental process of character development through the playing of a dramatic action. Includes exercises to free body, voice, and emotions of inhibitions which restrict open communication within a dramatic situation. Prereq: Performance major or cons instr.

THEA 172. Fundamentals of Acting II. 3 cr. Continuation of 170 with script and character analysis. Prereq: 170, or 160 and cons instr.

THEA 180. Audition Fundamentals. 1 cr. Introduction to fundamental techniques of a prepared theatrical audition. Emphasis on purpose, selection, preparation, and presentation.

THEA 226. Theatre Practicum. 0-1 cr. Assigned participation in theatre and dance production. Required of all dept majors. See "Required Practicum" above. May repeat each course 3 times for credit.

THEA 231. Vocal Training II. 1 cr. Private voice lessons for musical theatre performer. Prereq: Cons instr and program coordinator. May repeat once for credit.

THEA 232. Voice and Articulation I. 3 cr. Practice with diaphragmatic breathing, vibrations, and responsiveness to language based on the work of Kristin Linklater. Work toward neutralizing regionalism; introduction of the International Phonetic Alphabet. Prereq: So st.

THEA 233. Voice and Articulation II. 3 cr. Reinforcement of breath support, articulation, placement, range, and power through work with classical texts or other highly theatrical styles. Prereq: So st.

THEA 241. Scene Design I. 3 cr. Elements of the scenic design process including research, scene analysis, floor plans, sketching, and rendering techniques. 3 hrs lec and/or lab per wk.

THEA 242. Lighting Design I. 3 cr. Theory and practice in the application of methods and principles of lighting for theatrical productions. 3 hrs lec and/or lab per wk.

THEA 243. Costume Design I. 3 cr. Introduction to the art and practice of costume design using beginning rendering techniques. Analysis of the costume design process and organization from script and design concept to the workable costume on stage. 3 hrs lec and/or lab per wk.

THEA 244. Make-up Design. 3 cr. Fundamentals of 2- and 3-dimensional stage make-up through character analysis, design, and application. Practical experience through laboratory and crew work on departmental productions. 4 hrs lec and/or lab per wk plus class assignments on departmental productions. Course fee required.

THEA 281. Improvisation. 3 cr. Participate in improvisation and theatre games to develop actor's physical and emotional freedom. Prereq: 160 or 170.

THEA 282. Scene Study I. 3 cr. Explore basic acting fundamentals through analysis and performance of scenes from contemporary realistic plays. Prereq: 172 or cons instr.

THEA 327. Fundamentals of Playwriting. 3 cr. Basic elements of playwriting; idea, structure, theme, plot, characterization, dialogue, language; project writing and class criticism.

THEA 329/529. Theatre/Dance as a Popular Art. 3 cr. May repeat for 6 cr max. Popular theatre from viewpoint of audience, artists and producing groups (including theatre, dance, TV drama and film) through visits and tours to theatre/dance rehearsals, TV studios and motion picture locations. Seminar appearances by actors, dancers, writers, directors, designers, producers and other theatre artists. Performance attendance and evaluation required. Offered in UWSP overseas studies program. Does not count toward drama major or minor. Prereq: Jr st or cons instr. GDR:HU1

THEA 331. Vocal Training III. 1 cr. Private voice lessons for musical theatre performer. Prereq: Cons instr and program coordinator. May repeat once for credit.

THEA 332. Phonetics and Dialects. 3 cr. Learn the International Phonetic Alphabet and how to apply it to stage dialects and accents. Prereq: 170, 232, or cons instr.

THEA 341. Scene Design II. 3 cr. Study and skills of scene design with multi-set productions, and advanced work on rendering techniques, model making, and computer-aided design (CAD). Introduction to resume and portfolio preparation. 3 hrs lec and/or lab per wk. Prereq: 241 or cons instr.

THEA 342. Lighting Design II. 3 cr. Study and skills of lighting design including design for a variety of theatre spaces, scenic projection techniques, and computer application in lighting design. 3 hrs lec and/or lab per wk. Prereq: 242 or cons instr.

THEA 343. Costume Design II. 3 cr. Study and skills of costume design. Relationship of script analysis, character analysis, and historical period to the formation and realization of the design concept. Rendering techniques with emphasis on fabric, color, line, and figure. 3 hrs lec and/or lab per wk. Prereq: 243 or cons instr.

THEA 345. Theatrical Rendering. 3 cr. Advanced rendering techniques for scenic, costume and lighting design. 4 hrs studio per wk.

THEA 346. Stage Management. 3 cr. Role of stage manager as assistant to the director during rehearsal and in managing backstage activities during productions including scheduling, company and union rules, rehearsal procedures, time management, scene shifts, running, and touring. Computer applications for production organization and communication. 3 hrs lec and/or lab per wk.

THEA 347. Computer-Aided Design for the Stage. 3 cr. CAD techniques including 2-D drafting and 3-D modeling. Explore computer as tool for graphic imaging and applications for theatrical production. 4 hrs lec and/or lab per wk.

THEA 348. Pattern Drafting. 3 cr. Work in costume interpretation and pattern drafting of period garments. 4 hrs lec and/or lab per wk. Prereq: Jr st, 146, or cons instr.

THEA 349. Theatrical Sound Design. 3 cr. Study equipment and techniques related to theatre sound and the art of sound as a theatrical design element.

THEA 351. Survey of Dramatic Literature and Theatre History I. 3 cr. Theatrical forms of ancient India, classical Greece and Rome, classical Japan, and medieval Europe studied through dramatic literature, cultural history, and theatrical conventions. Prereq: 162. GDR:HU1

THEA 352. Survey of Dramatic Literature and Theatre History II. 3 cr. Dramatic literature of European tradition from Renaissance through Romanticism in context of cultural developments and theatrical technologies/conventions of the time. Includes Elizabethan and Jacobean drama and spectacles, Restoration Comedy, French neo-classical theatre, Italian innovations in architecture and design, Romantic philosophy of art and drama. Prereq: 162. GDR:HU1

THEA 361. Survey of Musical Theatre I. 3 cr. Investigate forms and ideas that contributed to development of today's American musical including comic opera, operetta, minstrelsy, burlesque, and vaudeville with their respective leading exponents. GDR:HU1

THEA 362. Survey of Musical Theatre II. 3 cr. Explore musical theatre genres, styles, and architects from 1950 to the present.

THEA 365. Singing for the Stage. 2 cr. Basic singing technique for actors and others who are not primarily singers. Prereq: Theatre or dance major or minor; not open to musical theatre majors.

THEA 375. Directing I. 3 cr. Theory of directing; exercises in blocking and performing scenes. 4 hrs per wk. Prereq: 160 or 170, 162, jr st.

THEA 376. Directing II. 3 cr. Practice in directing scenes and one act plays; develop directing skills. 4 hrs per wk. Prereq: 375 or cons instr.

THEA 380. Audition Techniques. 3 cr. Participate in developing audition skills, monologues, and cold readings. Prereq: 282 or cons instr. For BFA acting and musical theatre majors; open by audition to others who meet prerequisites.

THEA 381. Acting for the Camera I. 3 cr. Experience in video and film acting. Course fee required. Prereq: 170, 282, 384, or cons instr.

THEA 382. Stage Combat. 3 cr. Fundamentals of hand-to-hand combat and weaponry used for the stage, emphasizing safety. Prereq: 170, 282, or cons instr.

THEA 384. Scene Study II. 3 cr. Analysis and performance of scenes in variety of styles. For BFA acting/ musical theatre majors; open by audition to others who meet prerequisites. Prereq: 282 or cons instr.

THEA 386. Acting for the Camera II. 3 cr. Continuation of 381. For BFA acting and musical theatre majors; open by audition to others who meet prerequisites. Prereq: 170, 282, 381, 384; or cons instr.

THEA 399. Directed Study. 1-6 cr. Upperclass theatre majors or minors may arrange for independent study on individual or group projects with cons chair. Credit based on scope of the project.

THEA 426. Theatre Practicum. 0-1 cr. Assigned participation in theatre and dance production. Required of all dept majors. See "Required Practicum" above. May repeat each course 3 times for credit.

THEA 429. Drama Workshop. 1-6 cr. Intensive laboratory experience. Subtitle will designate area. Prereq: Sr st, or jr st and cons instr.

THEA 431. Vocal Training IV. 1 cr. Private voice lessons for musical theatre performer. Prereq: cons instr and program coord. May repeat once for credit.

THEA 445. Scene Painting. 3 cr. Introduction to scene painting and application to scene design process; basic painting techniques; types of paint and materials. 4 hrs lec/lab per wk.

THEA 446. Technical Production. 3 cr. Advanced work in technical production including facilities management, budgeting, purchasing, scheduling, safety, and construction techniques. 3 hrs lec and/or lab per wk. Prereq: 241 and 242 or cons instr.

THEA 448. Costume Crafts. 3 cr. Advanced work in various craft areas: millinery, shoes, accessories, wigs, mold-making, dyeing, painting, and fabric manipulation. 4 hrs lec and/or lab per wk. Prereq: 243 or cons instr.

THEA 449. Seminar in Technical Theatre. 3 cr. Special projects and techniques of handling advanced technical theatre problems. Subtitle with designate area. May repeat once for credit under each subtitle. Arranged. Prereq: 241 or 242 or cons instr.

THEA 452. Survey of Dramatic Literature and Theatre History IV. 3 cr. Dramatic literature of Western world from late 19th century through present. Wide variety of dramatic theories and theatrical practices. Prereq: 162. GDR:HU1

THEA 461. Survey of Asian Theatre. 3 cr. Survey of dramatic literature, physical stage, production and acting conventions of traditional theatre forms of China, Japan, and other Asian countries.

THEA 481. Period Acting I. 3 cr. Theory and practice of acting verse and other drama written before the 18th century; Shakespearean plays. For BFA acting/musical theatre majors; open by audition to others who meet prerequisites. Prereq: 170, 282, 384, or cons instr.

THEA 482. Period Acting II. 3 cr. Advanced study and practice performing plays written prior to the 20th century. Emphasis on comedy of manners. For BFA acting and musical theatre majors; open by audition to others who meet prerequisites. Course fee required. Prereq: 170, 282, 384, or cons instr.

THEA 484. Musical Theatre Performance (formerly 480). 2 cr. Integrate acting, singing and movement into effective musical theatre auditions and performances through study and performance of scenes from musical theatre. May repeat for 6 cr max. For BFA musical theatre majors; open by audition to others who meet prerequisites. Prereq: 129, 282, jr st.

THEA 490/690. Seminar in Theatre. 3 cr. Research and discuss specialized areas of theatre and drama. Subtitle will designate area. May repeat for credit with different subtitles. Prereq: Sr st, or jr st and cons instr. GDR:HU1

THEA 492. Theatre Internship. 1-6 cr. On-the-job training in specific area of theatrical production, performance, or management. Prereq: Cons dept chair.

THEA 494. Drama Workshop. 1-6 cr. Intensive laboratory experience. Subtitle will designate area of concentration. Prereq: Cons instr.

THEA 497. Senior Project. 1-3 cr. Exhibit talents by developing special project in dance, drama, or musical theatre. Project must be approved by dept and be supervised by dept project committee.

UNDECIDED/UNDECLARED

Contact the **Student Academic Advising Center.**

WASTE MANAGEMENT/RESOURCES

See **Natural Resources, Soil and Waste Resources.**

WATER RESOURCES

See **Natural Resources.**

WATERSHED HYDROLOGY

See **Natural Resources, Water Resources.**

Web and Digital Media Development

(College of Letters and Science)

James Gifford, Chair of Mathematics and Computing and Coordinator of Web and Digital Media Development
Room B-246 Science Building
Phone: 715-346-2120
E-mail: mathcis@uwsp.edu
Web: www.wusp.edu/cis

Faculty: R Bullis, A Gribble, B Harbach.

The program and courses in **web and digital media development** are administered by the Department of Mathematics and Computing.

Web and Digital Media Development (WDMD) Major

Consists of 45 credits:

1. Required: WDMD 100, 101, 170, 270, 271, 306, 400; Business 330, 380; CIS 330; English 351.
2. Electives: 9 credits approved by WDMD coordinator in one or two focuses:
 - a. Design: WDMD 308, 310, 311, 345, 397 or 399.
 - b. Technical: CIS 332, 336, 346, 362, 365, WDMD 345, 397 or 399

Web and Digital Media Development Minor

Consists of 24 credits:

1. Required: WDMD 100, 101, 270, 306.
2. Electives: 12 credits (excluding WDMD 397, 399, 480) selected from WDMD courses, 6 of which must be 300 level or above.

Courses in Web and Digital Media Development

WDMD 100. Creativity and the Arts. 3 cr. Creation across artistic media and genres. Nature of artistic experience as expressed in art, theatre, dance, music, film, video, and computer media.

WDMD 101. Survey of the Internet, Technology and New Media Arts. 3 cr. World Wide Web understanding, appreciation, issues, and content production. Technology trends including research, copyright, privacy, and censorship.

WDMD 170. Internet Languages. 4 cr. Concepts of programming Web applications; introduction to one or more Web programming languages. Prereq: 101 or con req.

170 Web and Digital Media Development

WDMD 270. Web Design and Development I. 3 cr. Introduction to Web design principles; introduction to tools for developing Web applications, including graphics, audio and Web animation.

WDMD 271. Web Design and Development II. 3 cr. More Web development techniques including database use via the Web; aesthetics of Web design; user-oriented Web design. Prereq: 170, 270.

WDMD 306. Digital Media Creation. 3 cr. Development of digital media creation including video, audio, and animation. Prereq: 270.

WDMD 308. 3-D Computer Graphics. 3 cr. Development of 3-D computer modeling skills as well as introductory animation skill. Theory of design principles including scale and proportion, 3-D composition, color, etc. as applied to 3-D computer-simulated environments. Prereq: 306 or cons instr.

WDMD 310. Digital Image Development. 3 cr. Use advanced graphics and animation tools to develop digital images. Prereq: 306.

WDMD 311. Digital Audio and Video Production. 3 cr. Nonlinear audio and video production techniques including storyboarding, scene visualization, and editing. Prereq: 306.

WDMD 345. Advanced Web Development Tools. 3 cr. Use professional software tools for Web and digital media development. Subtitle will indicate tool(s). Prereq: 271 and 306.

WDMD 397. Internship in Web and Digital Media Development. 1-3 cr. Participate in supervised training work program that you arrange with your adviser at a cooperating organization. Adviser and chair determine number of credits. May repeat for 3 cr max. Prereq: Jr st and cons chair.

WDMD 399. Independent Study. 1-3 cr. Independent study/project development in Web and/or digital media. Prereq: Cons chair.

WDMD 480. Web Development Seminar and Workshop. 4 cr. Apply Web and media development concepts, principles, and practices using formal presentations and group dynamics to develop a Web-based project in a team environment. Also social, legal, and ethical issues related to using the Web. Prereq: 271 and 306 and sr st.

WEB SITE DEVELOPMENT

See *Computer Information Systems, Communication, Web and Digital Media Development, and Art and Design.*

WELLNESS

See *Health Promotion and Human Development.* For the list of courses that meet the wellness general degree requirement see *Health, Exercise Science, and Athletics.* Also see *General Degree Requirements.*

WILDLIFE

See *Natural Resources.*

Women's Studies

(College of Letters and Science)

Dean's Office, College of Letters and Science
Room 130, Collins Classroom Center
Phone: 715-346-4224

Definition: Women's studies addresses the forms and effects of gender bias in society, seeks to understand the particular issues and challenges facing women in the past and present, and highlights women's contributions in all areas of human endeavor.

Women's Studies Minor

Consists of 22 credits:

1. Core, 9 credits: Women's Studies 105; one of 300, 301, 320, 350; and 490 or 3 credits of 499.
2. Selections from Communication 369 with approp subtitle, 396; English 102 with approp subtitle, 285, 288, 309 with approp subtitle, 327, 378, 365; Geography 371; History 321 with approp subtitle, 384, 385, 386, 391 with approp subtitle, 490 with approp

subtitle; Music 301; Philosophy 350; Political Science 408, 414; Psychology 240; Religious Studies 105, 312 with approp subtitle, 330, 333; Sociology 240, 316, 395 with approp subtitle; Spanish 493 with approp subtitle; any women's studies course taken in addition to the core requirements, and other courses as approved by the women's studies committee.

NOTE: Subtitled courses may count with prior approval of the women's studies coordinator.

Credit-by-Exam Policy

Credit-by-exam is available for Women's Studies 105, 300, and 320. To arrange for an exam, contact the coordinator. For WOMN 300, you may test-out only for a topic that has been offered within one year of the test-out attempt. Exams will include objective and essay questions. Course credit is given for scores equal to or greater than 80 percent of the total points on the exam. You may take the exam only once.

Courses in Women's Studies

WOMN 105(MNS). Introduction to Women's Studies. 3 cr. Socialization of individuals into sex roles and the reinforcement of these roles; status and role of women in contemporary American society in school, marriage, employment, and politics; examine historical and cross-cultural materials. GDR:SS2

WOMN 200. Topics in Women's Studies. 1-3 cr. Interdisciplinary examination of one of the major topics in women's studies. Subtitle will designate topic. May take for credit twice with different subtitles.

WOMN 300/500. Topics in Women's Studies (Humanities Emphasis). 3 cr. Interdisciplinary examination of one of the major topics in women's studies. May take for credit twice under different subtitles. Prereq: 105 or cons instr. GDR:HU4

WOMN 301. Women and Feminism in the Modern World (Social Science Emphasis). 3 cr. Impact of feminism in a particular modern social and/or political context. May take for credit twice under different subtitles. GDR:SS2

WOMN 320/520(MNS). Literary Perspectives on Race and Gender. 3 cr. How U.S. ethnic minority women writers treat the subjects of race, ethnicity, and gender; social and historical contexts of their literature. GDR:HU4

WOMN 396. Practicum. 1-3 cr. Students may arrange through the women's studies coordinator to work with a community organization or agency directly involved in aiding women.

WOMN 490. Seminar. 3 cr. The changing status of women in contemporary society; investigate aspects of woman's role, e.g., in government, education, law, family, community; research involves reading and direct research projects producing significant data or a seminar paper.

WOMN 499. Special Work. 1-3 cr. Women's studies minors may arrange for special work with cons women's studies coordinator. Research involves reading and direct research, producing significant data or a seminar paper.

Women's Studies Latent Course: Not offered recently. 350/550 Women and Science, 3 cr, (See 01-03 catalog).

WRITING

See *English and Scientific and Technical Writing.*

WRITING EMPHASIS (WE)

See *General Degree Requirements.* The timetable lists writing emphasis course offerings for each semester.

YOUTH PROGRAMMING AND CAMP MANAGEMENT

See *Natural Resources-Human Dimensions of Natural Resource Management.*

ZOOLOGY

See *Biology.*

Graduate Study

Graduate Degree Programs

At UW-Stevens Point you may select among accredited programs leading to these graduate degrees:

- Master of Arts in Communication
- Master of Music Education
- Master of Science in Communicative Disorders
- Master of Science in Education-General
- Master of Science in Education-Elementary Education
- Master of Science in Human and Community Resources
- Master of Science in Natural Resources
- Master of Science in Nutritional Sciences
- Master of Science in Teaching with specialization in biology, English, reading certification in English, or history.

In addition, you may take part in programs offered through UW-Stevens Point's cooperative arrangement with UW-Oshkosh which lead to the:

- Master of Business Administration
- Master of Science in Education-Guidance and Counseling

You may also take part in programs offered through UW-Stevens Point's cooperative arrangements with UW-Superior which lead to the:

- Master of Science in Education-Educational Administration or Specialist in Education-Educational Administration.

Responsibility and Policy

The graduate faculty, through the Graduate Council and Faculty Senate, establish general requirements for graduate degrees. Each department offering a graduate program establishes discipline specific degree requirements.

Graduate Study policies intend to:

1. Facilitate orderly progress of graduate students through their degree programs;
2. Meet expectations of accrediting agencies, other graduate schools, and the University of Wisconsin Board of Regents;
3. Provide a common university standard and encourage the development of quality programs.

As a graduate student, it is your responsibility to become aware of and abide by graduate study policies. Every effort will be made by graduate study personnel, coordinators, and advisers to aid you as you progress through your graduate career at UW-Stevens Point.

Graduate Study

Graduate Faculty. Members of the graduate faculty have all earned terminal degrees (or equivalent), hold the rank of assistant professor or higher, and have successful teaching experience or continuing evidence of scholarly achievement and professional activity in their individual disciplines. They are nominated by their departments and are approved by the UWSP Graduate Council. Graduate faculty status allows individuals to regularly teach graduate courses, direct graduate students' committees, and be actively involved in graduate affairs. Graduate faculty members have a (G) following their individual listings that appear at the end of this catalog.

Graduate Council. The Graduate Council is a standing committee of the Faculty Senate. Its members include the chair of the graduate faculty, one representative for each

department or school with a graduate program, two representatives from the College of Letters and Science, one representative each from the College of Professional Studies, College of Natural Resources, and College of Fine Arts and Communication, one representative from the Learning Resources Center, and two graduate students. As the representative body of the graduate faculty, the Graduate Council has the authority to recommend and determine policies related to the graduate programs of the university (subject to review by the Faculty Senate).

Departmental Graduate Committees/Coordinators. Most of the larger departments offering graduate degrees have graduate committees and/or a graduate coordinator to deal with policy matters related specifically to their graduate degree programs. These committees/coordinators have general departmental concerns, and they should not be confused with your personal graduate committee and your graduate adviser. Departmental graduate committees/coordinators serve ALL of the graduate students in the department. Your graduate adviser and your graduate committee serve YOU.

When you have questions about a specific degree program, go to the department committee or coordinator first. You will find that these coordinators or committees are a valuable resource of information.

Student/University Relationships

Freedoms and Responsibilities. The university assumes that graduate students have intellectual maturity and a sense of commitment to the academic community. The freedoms and responsibilities listed below are general guidelines for your relationship to the university.

As a graduate student you are **FREE**:

- to express yourself freely in the classroom and take reasoned exception to the data and views presented in any course.
- from prejudiced or capricious academic evaluation.
- from disclosure of views or beliefs presented to an instructor during graduate study, except with your consent.
- to organize and join associations to promote your common interests.
- to examine and discuss questions of interest both publicly and privately.
- exercise the rights you enjoy as citizens (the freedom of speech, peaceful assembly, and rights of petition) without interference from the university.

As a graduate student you have the **RESPONSIBILITY**:

- to help maintain the atmosphere of free inquiry and free expression inherent in the academic community.
- to respect the right of other members of the community to express themselves freely.
- to observe scrupulous standards of intellectual honesty.

Graduate Study Academic Ethics. Only work that is solely yours may be submitted to a professor in the form of an examination paper, term paper, class project, research project, or thesis, unless the instructor specifically authorizes group work.

Cheating and plagiarism are prohibited. Plagiarism is the process of stealing or passing off as your own someone else's words or ideas, or presenting as your own an idea or product which is obtained from an existing source. To avoid any appearance of plagiarism or accidental plagiarism, it is important that you learn correct citation procedures for your discipline and your classes. The plea of ignorance regarding

citation procedures or of carelessness in citation is no defense against allegations of plagiarism.

You may not:

- purchase papers from commercial sources.
- use a single paper to meet the requirements of more than one course unless the professors of the courses approve.
- submit a paper or project completed by someone else.

Research Misconduct Policy

Standards of Conduct. As a researcher, you are expected to retain appropriate documentation for your research and adhere to accepted ethical standards appropriate to your academic discipline.

Definition of Research Misconduct. Misconduct is intentional falsification of data, plagiarism, or other practices that deviate from common research practice within the academic community for proposing, conducting, or reporting research. Honest error and differences in interpretation of data are not considered misconduct. Misconduct is prohibited at UWSP and may be cause for discipline or dismissal.

Reporting Research Misconduct. Research collaborators, colleagues, and anyone who has reason to believe that research misconduct has occurred are responsible for reporting the misconduct. Retaliation because of good faith reporting of misconduct is prohibited. However, individuals found to have brought allegations of a frivolous and/or malicious nature are subject to the same range of disciplinary action as those who are found guilty of this policy.

Processing Research Misconduct:

Allegations

- A. Report allegations in writing to the dean of the appropriate college. The accused and the dean of his/her college will be informed in writing within 10 days of the allegation: (1) that he/she is being investigated, (2) exactly what the allegations are, and (3) the identity of the accuser.
- B. The dean of the college will undertake a prompt and discreet inquiry. All matters pertaining to the investigation and evidence supplied will be kept in strict confidence. An inquiry consists of information gathering and preliminary fact-finding to determine whether an allegation or apparent instance of misconduct warrants an investigation. The initial inquiry will be completed within 60 days from the time allegations were made to the dean.
- C. If the inquiry concludes that the allegation of misconduct is unsubstantiated, and an investigation is not warranted, the reasons and supporting documentation for this conclusion will be reported to the chancellor, who will be responsible for reviewing the conclusion of the inquiry. If the chancellor concurs in the conclusion that an investigation is not warranted, his/her determination, and all other supporting documentation from the inquiry will be recorded and the record maintained confidentially for a period of three years after the termination of the inquiry.
- D. If the preliminary inquiry finds reasonable cause to believe the allegations are not frivolous or misguided, the matter will be referred to an ad hoc committee appointed by the dean for formal investigation. The accused will be given a copy of the report of the dean's inquiry. The committee members will be knowledgeable about the researcher's area of inquiry, but will not be involved with the research in question or in competition with the accused. It may be necessary or advisable in certain situations to invite researchers from other institutions to participate in the investigation. The investigation must be initiated within 30 days of the completion of the inquiry. If the research has been supported by extramural funds, federal agencies require notification that a formal investigation is underway.

1. The ad hoc committee will determine whether misconduct has taken place and assess its extent and consequences.
2. If the ad hoc committee finds the charges to be true, regular governance procedures will be followed by the dean of the college in consultation with the associate vice chancellor in determining the proper course of action. Recommendations may range from reprimand to dismissal depending upon the seriousness of the misconduct. The investigation should ordinarily be completed within 120 days of its initiation.
3. A copy of the ad hoc committee's preliminary report will be provided to the individual being investigated. The dean shall give the individual an opportunity to discuss the matter with the ad hoc committee and himself/herself before any action is taken under D2 of this policy. The individual may reply in writing to the committee. These replies will be attached to the committee's report.
4. Appropriate agencies and journals will be notified by the dean of the college of the ad hoc committee's findings if the committee finds that misconduct is substantiated.
5. If the misconduct is not substantiated, extensive efforts will be made to restore the reputation of the accused.

Copyrights and Patents—

Any copyrights you obtain as a graduate student on your original works (theses, educational products, research papers) belong to you except when they are subject to prior agreements between the university and extramural sponsors.

You have complete ownership and control of any patents that result from inventions you make as a graduate student at UW-Stevens Point. However, you must honor any contractual rights of extramural sponsors if you develop an invention while being financially supported through a grant or contract. To ensure such sponsor rights, you should sign a patent agreement with the external agency at the beginning of your assistantship. Contact the associate vice chancellor for Academic Affairs if you have any questions regarding inventions or patents.

Admission to Graduate Study

There are three admission categories designed to meet your graduate needs.

Graduate Regular: If you wish to pursue a master's degree at UW-Stevens Point, you will need to be formally admitted to the university as a graduate regular student. Submit to the Admissions Office a completed graduate study application form, the \$45 nonrefundable application fee, and official transcripts from each college you have attended (both undergraduate and graduate). The transcript from the college from which you graduated must certify that you have received your baccalaureate degree. Upon receipt of your completed application file, the Admissions Office will forward your application materials to the coordinator of your intended graduate program. You may then be asked to submit additional application materials to the graduate program coordinator.

Graduate Special: If you wish to take graduate courses but do not wish to pursue a master's degree at UW-Stevens Point, you may register as a graduate special. To attend UW-Stevens Point as a graduate special, you must hold a bachelor's degree from an accredited institution. You do not need to complete a formal application process. You will be granted graduate special status when you register for classes.

As a graduate special student you can enroll in graduate-level courses and receive graduate credit for teacher certification requirements or for personal enrichment. A

maximum of 9 credits can apply toward a master's degree provided they are approved by your adviser and fit within the seven-year time period. If you decide to pursue a master's degree, it is in your best interest to change your status to graduate regular as soon as possible.

Graduate Guest: If you wish to apply credits taken at UW-Stevens Point toward a graduate degree at another institution, you are neither evaluated nor formally admitted to UW-Stevens Point, but are permitted to enroll in specific courses with the approval of your graduate adviser at the other institution. This procedure assures that credits taken at UW-Stevens Point will transfer properly to another institution.

Admission Status and Your Specific Degree Program

Successful admission to Graduate Study requires admission to a specific degree program. Most graduate programs require additional application criteria such as letters of reference, personal interviews, standardized test scores, verification of certification, etc. You should contact the graduate coordinator in your discipline for these additional requirements. The Admissions Office forwards your graduate study application file to the graduate coordinator of your designated program area for final consideration for admission to that particular program.

Admission to Candidacy

Admission to a specific degree program does not automatically make you a candidate for a master's degree. You must meet residency and evaluation requirements before you are a degree candidate. The formal admission to candidacy process varies from one program to another, but generally you must:

- Earn at least 9 credits in residence at UWSP.
- Remove any academic deficiencies and/or complete all subject matter prerequisites.
- Maintain at least a 3.00 (B) grade point average.
- Select a graduate adviser (and a graduate committee if required by your discipline).
- Complete and get approval for your Program of Study.

Graduate Adviser

When you first enter your graduate program, you will probably be assisted by a departmental graduate adviser who counsels all incoming graduate students. In some of our graduate programs this person continues to advise all students in the program until the degree is nearly completed. In other programs, you will need your own personal adviser who may also be known as your "major professor." This individual plays a key role in guiding you through your graduate career. Your graduate adviser should act as a personal adviser, mentor, advocate, constructive critic, and friend. Your graduate adviser is the person who should "go to bat" for you when you encounter problems with your program plan, courses, and/or research.

Selecting a Graduate Committee

Your graduate adviser may be required to use other graduate faculty to make final decisions about the acceptability of your program plan and the quality of your thesis, if you choose to write one. Therefore, give careful consideration to your choice of these critical advisers who will form your graduate committee. The graduate coordinator or your graduate adviser normally assists in this process.

The graduate committee consists of at least three graduate faculty members including your graduate adviser. Try to ask

a person from outside your major discipline area to serve on your committee. A nongraduate faculty member who possesses expertise particularly relevant to your field of study may be appointed as a special extra member.

Your graduate adviser and/or the graduate committee is responsible for supervising your Program of Study and should:

- Guide you in an appropriate selection of courses and experiences to ensure that you are aware of all relevant material necessary for a complete understanding of your chosen field of study. This not only includes concentration of coursework in your major area of interest, but also selecting courses to bridge the gaps you may have in your previous educational experiences. This may require you to take some undergraduate courses to make up for deficiencies.
- Determine whether you have accumulated and demonstrated sufficient ability to engage in the analytic process of problem solving. A graduate degree entails more than just taking additional courses within a major. You will be expected to demonstrate your ability to synthesize the new knowledge you have gained in your graduate courses and apply this knowledge to solve contemporary problems.
- Make certain that if you elect to write a thesis it is consistent with the degree, confronts the interdisciplinary relationships of your subject area, and focuses on problem-solving methodology.

Your graduate committee members, including your graduate adviser, will be listed on your Program of Study form. They must sign this form indicating their approval of your graduate program plan. If you desire a change in the composition of your committee, it is your responsibility to explain to the current committee members why the change is desirable or necessary. If the change is acceptable to the outgoing and incoming professors, you should then notify the graduate coordinator for your department, school, or college to complete the transfer of committee members.

Program of Study

You and your graduate adviser jointly develop a Program of Study that is primarily a listing of courses and other experiences that will be required for your degree. It is personally designed for you, taking into account previous academic strengths and weaknesses as well as your career goals. This plan is outlined on the Program of Study form that, once approved, becomes a contract-like agreement between you and the university. It is important that this agreement be made before you have accumulated 15 credits, since it is intended to be a realistic plan and defines all requirements necessary to complete your degree.

The Program of Study may include courses, both graduate and undergraduate, that are designed to add to your expertise or to correct deficiencies. These are in addition to the **minimum** of 30 graduate credits required of master's degree candidates. The Program of Study also lists when courses are to be taken, the tentative title and completion date of the thesis or product, tentative dates for final examination and graduation, etc.

You may make minor changes in your approved Program of Study with the approval of your graduate adviser in consultation with the graduate committee members. Major changes such as course substitutions, changing of committee members, changing from thesis to nonthesis, etc. require formal concurrence of you, your major

professor, your graduate committee, and the graduate coordinator of your department, school, or college.

General Requirements for All Master's Degrees

- A maximum of 9 credits completed at the time of admission.
- A minimum of 30 credits in graduate courses (Communication, 30 cr + 1 credit colloquium), (Communicative Disorders, 37 cr + 21 cr practicum).
- At least 15 credits must be taken in courses numbered 700 and above.
- An approved Program of Study must be on file with your adviser and the graduate coordinator of your department, school, or college before you complete 15 credit hours toward the degree.
- A minimum overall grade point average of 3.00.
- No more than 6 credits total in special topics courses and independent study courses may apply toward a master's degree.
- Successfully complete a culminating experience.

All credits accepted toward a degree, including transfer credits, must be **earned within a seven-year period**. The time period starts with the beginning of the term in which the first course approved for your Program of Study was taken. For example: You are accepted into a UWSP graduate program in fall 2003. Part of your approved plan of study for your master's degree includes a course taken in spring 2001. Thus, your seven-year time period to complete the degree starts with the beginning of the spring 2001 semester, NOT the semester in which you were accepted into your graduate program.

General Requirements for All Master of Science in Teaching (MST) Degrees

In addition to the general requirements of all master's degrees, the MST degree has the following requirements:

- Eligibility for certification for teaching in the area of specialization (biology, English, history) in the state of Wisconsin or another state.
- Minimum of 30 graduate credits distributed among:
 - Group I:** Major area of specialization, 18-24 credits. These courses provide additional depth in your teaching field and increase familiarity with new knowledge, problems, and trends.
 - Group II:** Professional education, 6-9 credits. These courses enhance your understanding of education and improve performance in the art of teaching.
 - Group III:** Liberal studies, 0-6 credits. These courses are taken outside the content area of your specialization and broaden your knowledge and outlook.
- A minimum equivalent of a major in the area of specialization at the completion of the graduate program.
- A minimum grade point average of 3.00 in the area of specialization at the time of graduation.

Academic Information

Academic Standards and Probation

You must maintain at least a B average (3.00 grade point average) to remain in good standing in a graduate program. Graduate regular students who fail to maintain at least a B average will be placed on probation. You must raise your overall grade point average to a B or better with the next 9 graduate credits you take. While on academic probation you cannot carry a graduate assistantship appointment or

be admitted to candidacy for a degree. If you fail to raise the overall grade point, you will be dropped from your degree program and will be automatically reclassified as a graduate special student.

Grades of C will be accepted in no more than 8 of the 30 credits that apply toward a degree. Coursework with a grade below C may not be used to satisfy graduate degree requirements. You may not repeat a course unless you get approval from the dean of the college offering the course. For courses taken at this university, only the credit and grade earned in your second attempt will be figured into your grade point average, but the original grades are not taken off your record. If you plan to repeat a course, pick up a request to repeat a course form from Registration and Records and have it approved by the appropriate dean.

If you need to take extra credits to raise your grade point average, you may take only 6 credits beyond the 30 credit minimum requirements for the degree.

Incomplete and Pass/Fail Grades. You must remove a grade of incomplete before the end of the next semester. If not, it automatically becomes a failure unless it is a culminating experience course. Courses with pass/fail grades do not apply to a graduate degree program.

Academic Progress Standards for Receiving Financial Aid

You will maintain satisfactory academic progress for financial aid eligibility if you receive grades of A-C in 75 percent of the total graduate semester hours for which you are enrolled at UW-Stevens Point.

Your academic progress is determined each year in June. If you are not making satisfactory academic progress, you will be ineligible to receive financial aid until such time as you earn a sufficient number of credits to be making satisfactory academic progress. Additional conditions apply:

1. "Total graduate semester hours for which enrolled" is defined as all the graduate credits for which you receive a grade of A, B, C, D, F, I, GP, W, or WF. Plus and minus grades are included.
2. These standards are applied after you have accumulated 9 or more "semester hours enrolled."
3. Incomplete grades in thesis courses are excluded.
4. Transfer credits are excluded.
5. According to federal regulations, you are no longer eligible for financial aid after you attempt more than 48 graduate credits.
6. If you re-enter after being out of school one or more semesters, you must be making satisfactory academic progress at the time you re-enter in order to qualify for financial aid.
7. If you are ineligible for financial aid due to unsatisfactory academic progress, you may appeal to the dean of your college for special consideration if you feel your lack of progress is due to extenuating circumstances.

Active/Inactive Status

Admission to a graduate program is usually granted to begin graduate coursework in a specific term (semester or summer session). If you delay your enrollment beyond the specific term of your admission (or if your admission letter does not include a specific term of admission), contact the Admissions Office to find out what will be needed to enroll in a future term.

If you do not earn any graduate credit for a period of five consecutive terms, you will be considered inactive and must be readmitted before enrolling. Inactive students who

reapply must meet admission standards in effect at the time of readmission and must meet degree requirements that are in effect at that time.

Courses

The courses approved for graduate credit are listed in the undergraduate **Courses of Instruction** section of this catalog by academic department. All courses in your approved Program of Study will be in the 500-799 group. You must have graduate standing to take courses numbered 700 and above.

Dual numbered (slash) courses are those numbered in the 300/500 and 400/600 range and are offered simultaneously at the undergraduate and graduate levels. You may change an undergraduate course to a graduate course **ONLY** during the semester in which you are enrolled in the course, with the consent of the instructor.

When you take dual numbered courses as a graduate student you must meet at least one additional qualitative objective beyond the requirements for the undergraduate students in the same course. This might be a research project with a written and/or oral report, a term paper, a seminar or presentation given to the class, a product that can be used in class and shared with others, an essay or oral examination instead of an objective examination, etc. These additional qualitative objectives should be included in the syllabus for the course.

In addition, faculty members teaching dual-numbered courses should use instruction methods that involve dialogue, student discussion/presentation. Where this is not feasible for the entire class, there should be additional discussion/seminar sessions for graduate students.

Coursework Criteria/Graduate Level

1. Graduate coursework has a greater level of academic/intellectual rigor, is more specialized, and requires significantly greater depth and intensity of study than does UW-Stevens Point undergraduate coursework.
2. Graduate coursework involves a balance of theory and practice. Some courses in a master's program will place more emphasis on theory while others will emphasize practice.
3. The methods of instruction in graduate courses reflect a high level of personal interaction between the instructor and individual students. This requires small graduate course sections, regular and personalized advising, and interactive teaching methods.
4. Graduate coursework requires more student self-directed learning than found in undergraduate courses and requires extensive use of learning resources that include but are not limited to library resources, laboratories, and computer facilities.
5. Graduate coursework focuses on advanced disciplinary content, usually an extension of what was presented at the undergraduate level. When graduate work serves an introductory function, it introduces content that is not offered at the undergraduate level but is dependent upon understandings acquired at the lower level. However, introductory graduate coursework may also be used in an accelerated way to create a basic background for an individual with an undergraduate degree in another field or who lacks background from undergraduate preparation.
6. All graduate coursework should contribute to degree program goals.
7. Grades assigned in graduate courses distinguish between levels of achievement at the graduate level.

8. Graduate courses should only be taught by graduate faculty or by those with similar qualifications. Course formats should allow for adequate reflection and integration of learning and meet the UW System requirements of
 - a. No more than one credit per week (seven consecutive days),
 - b. At least 800 contact minutes per credit, and
 - c. At least 1600 minutes out-of-class work per credit.

Credit Load and Limitations

You should register for credit any time you use the physical or personnel resources of the university to fulfill the requirements of your degree program. You can register on a per credit basis when you are doing research and/or working on a project, paper, or thesis at UW-Stevens Point. The instructor or graduate adviser determines the number of credits according to the scope of the project.

The normal graduate course load for a semester is 9 to 12 credits. If you register for 9 or more credits you are considered a full-time graduate student. Undergraduate credits count when determining your credit load. Once you have completed all degree requirements except for your thesis, we consider you full time for one semester while you work on your thesis.

You may register for no more than 15 credits during the semester and no more than 9 credits (6 credits in any four week period) for the summer session. If there are exceptional circumstances, you can appeal to the dean of your college for permission to carry more than the maximum load. To do this you will need to submit an overload form for your dean's signature **BEFORE** you register for the overload. You will not be allowed to register unless your overload has had prior approval.

The normal graduate course load for the eight week summer session is 6 credits (3 credits in each four week term or 6 credits in the eight week term). If you register for 5 or more credits in the summer you are considered a full-time graduate student. You may register for up to 9 credits in the summer. However, be aware that the concentrated nature of summer courses with the extra commitment of time and energy places a strain on your academic performance. Taking more than 6 credits in summer is not advised.

If you are supported by a full-time assistantship, we expect you to devote at least half of your time to your assistantship duties. Therefore, you should enroll for a maximum of 9 credits per semester.

You do not need to be registered during the semester that you graduate. However, some programs require that you must be enrolled in thesis or project credits each semester in order to maintain your status as a degree candidate. If your last semester only involves completing your thesis, you may enroll in **Research 798** with the approval of your graduate adviser and graduate program coordinator. This zero credit "course" will allow you to use e-mail, retain graduate student library privileges, and postpone federal loan payments. Or if necessary, the registrar will write a letter certifying that your thesis work involves at least 50 percent of your time.

Culminating Experience

You must successfully complete a culminating experience. The individual colleges or departments determine the nature of this experience subject to approval by the Graduate Council. Examples of experiences which may meet this requirement include: thesis, seminar paper, oral

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and/or written comprehensive examination, clinical paper or semester, integrative course, exhibition, or recital. Most programs will require more than one of the above experiences.

Degree Completion Time Limit

All credits accepted toward a degree, including transfer credits, must be **earned within a seven-year period**. The time period starts with the beginning of the term in which the first course approved for your program of study was taken. For example: You are accepted into a UWSP graduate program in fall 2003. Part of your approved plan of study for your master's degree includes a course taken in spring 2001. Thus, your seven-year time period to complete the degree starts with the beginning of the spring 2001 semester, NOT the semester in which you were accepted into your graduate program.

Drop/Add Procedure

Refer to the timetable for drop/add (change of registration) instructions. Get drop/add forms in the Registration Office.

Employed Students

If you are employed, you should consider the time demands of that job when planning an academic program. Certain fellowships, assistantships, and scholarships specifically limit other employment. You have the obligation to learn these restrictions and abide by them if you receive one of these awards. As a graduate student at UWSP, you are considered a student first. Employment within or outside of the university is of secondary consideration when determining the time devoted to the academic program.

Fees for Graduate Credits

Graduate fees are assessed for graduate credits. Undergraduate fees are assessed for all undergraduate credits.

During your last undergraduate semester you may register for graduate credits as long as all requirements for the completion of your bachelor's degree will be met. To do this, complete the Undergraduate/Graduate Split Program Status form from the Registration Office. You pay graduate fees for graduate credits taken during the split program period. Note that this is not a guarantee that these credits will be accepted into a master's program.

Grading Standards

According to Graduate Study policy:

- A Indicates superior work.
- B Indicates satisfactory but undistinguished work.
- C Indicates work below the standard expected of graduate students.
- D/F Clearly indicate unsatisfactory work and do not apply toward your degree.
- GP Indicates thesis and thesis-like courses in progress.

Graduation Requirements

Applications for graduation are available in the Registration and Records Office. Submit an application before the start of your last semester. Candidates for summer graduation should apply by January (the start of the semester preceding summer). Complete all requirements by the end of your graduation term. If they are not completed by then, you must complete a new application for the next term in which you expect to graduate. There is a one time graduation fee of \$30.00.

You should check with your adviser and graduate program coordinator by the middle of your last term to be sure your

file is complete except for the elements you know are outstanding, e.g. current courses, thesis approval, etc.

Since there is no August commencement, you may choose to participate in the prior May or following December ceremonies. Notify Registration and Records at least two months before the commencement you wish to be in so there is time to include your name in the commencement program.

Incompletes

A grade of incomplete indicates that you have done satisfactory work in the course, but because of circumstances beyond your control you have been unable to finish all requirements. The incomplete is not given to enable you to do additional work to bring up a deficient grade. A grade of incomplete must be removed before the end of the next semester. Except for culminating experience courses, if the incomplete is not removed within that time, it automatically becomes a failure.

Registration

Follow current registration procedures that are published in the timetable. Registration instructions for off-campus and credit-outreach courses are available from UWSP Extension and the Professional Development Network. See Web sites www.uwsp.edu/reg-rec; www.uwsp.edu/extension; and www.uwsp.edu/cps/network.

Schedule of Classes

The timetable contains registration instructions and the schedule of all the courses to be offered in the following semester. Note that not all of the courses listed in the catalog are offered each semester. You should consult the timetable and your department chair when planning for registration in any given term.

Second Master's Degree

If you have earned a graduate degree from UW-Stevens Point and wish to pursue another degree, you must submit a new application for admission. Normally, you do not need to furnish transcripts or other credentials previously submitted. Check with the Admissions Office to be certain that your records are complete. **Credits earned for one degree usually cannot be used to satisfy the requirements for a second degree.**

The Thesis

Some degree plans require a thesis. After you select a research topic, submit a proposal to your graduate adviser briefly describing what you want to do and how you plan to do it. Your graduate adviser and thesis committee review your proposal, determine how many credits (up to 6) you earn for the thesis, and approve or reject your proposal.

A thesis is a formal written work and should follow the standards of the style manual preferred by your department. Also consult the Graduate Study Thesis Manual and your graduate adviser for proper format.

If you are working on your thesis the equivalent of half time and not enrolled in other classes, you may enroll in **Research 798** with the approval of your graduate adviser and graduate program coordinator. This zero credit "course" will allow you to use e-mail, retain graduate student library privileges, and postpone federal loan payments. You may enroll only twice.

As a degree candidate, you defend your thesis in an open, public oral examination at least 30 days before you expect to graduate. Your thesis committee conducts the exam.

You must deposit a **bound** copy of your thesis at the University Library in order to complete your degree. The library provides a service for binding your thesis at a nominal cost.

Transcripts

To get a copy of your transcript, fill out the proper form in the Registrar's Office and pay the appropriate fee. A UW-Stevens Point transcript includes all of your UW-Stevens Point academic record.

Transferring Graduate Credits

UWSP does not automatically accept transfer graduate credits from other institutions. You must submit a formal application for approval of such credits. While credits taken prior to admission to a graduate degree program may be considered at the discretion of the coordinator of that program, in most cases you should obtain approval for any transfer credit **PRIOR** to taking those courses. The graduate coordinator for each program will determine the acceptability of transfer credits using the following criteria:

- The course must be from an institution regionally accredited **at the graduate level**.
- You must have taken the course for graduate credit at the offering institution.
- The course must be acceptable toward fulfilling degree requirements at the institution offering the course.
- The format and number of contact minutes (minimum of 800 minutes instructional time **PER CREDIT**) must be at least as rigorous as those for UWSP graduate courses.
- One credit per week is accepted.
- The course may not be a correspondence and/or mass media course, independent study course, or from extension divisions outside the UW System. Continuing Education Units (CEUs) are not equivalent degree credits and are not transferable.
- Acceptance of the course does not make you exceed the 9 credit transfer limit.
- A maximum of 9 credits taken with graduate special status will apply toward a degree.
- You must have earned grades of A, B, or equivalent.
- You may not transfer credit applied toward another degree that you have already obtained.

If your graduate coordinator determines that the transfer course meets these minimum criteria, she/he may:

- Accept the transfer course and have the credits apply toward your Program of Study.
- Accept the transfer course as **AN ADDITION** to the normal 30-credit Program of Study.
- Accept the course as either applying to your degree plan or as an addition to the degree plan, but at a reduced credit level if the course does not meet UW-System's contact-hour-per-credit standards.

You must **complete a formal application for approval** of transfer credits before graduate credits from any institution other than UWSP can be considered. File the application for transfer credits with your graduate coordinator at least a month before the class begins. Your application must include (1) a photocopy of the catalog course description, (2) a course syllabus (if available), (3) verification that the course is a graduate course, (4) and verification that it is applicable to a graduate program at the institution offering the course.

After your graduate coordinator approves the transfer credit application, a copy will be sent to the Registration and Records Office which will add the transfer credits to your

record after receiving an official transcript indicating completion of the course with at least a B (3.00). You will be notified when this is completed.

UWSP Extension and PDN

UWSP Extension, Room 012 Main Building

Hours: 8 am-6 pm, Monday-Friday

Phone: 715-346-3838 or 800-898-9472

Web: www.uwsp.edu/extension

Professional Development Network (PDN)

Room 330, College of Professional Studies Building

Phone: 715-346-3801

Web: www.uwsp.edu/cps/network

Credit courses are taught by faculty at various locations throughout Central Wisconsin, as well as online and via television and videotape. Courses are designed to meet needs of returning adult learners who are pursuing certificates, degrees, or other professional development while still in the workplace.

Withdrawing from Classes

When you withdraw, you terminate your complete registration for the semester. To withdraw, go to the Registration and Records Office and file a formal notice of withdrawal. If you stop attending classes and do not officially withdraw, you will be considered as still registered and receive a grade of F for each of your classes.

Financial Information

Graduate Assistantships

The Board of Regents for the University of Wisconsin System provides the financial resources for a number of graduate assistantships. In addition, several college units have extramural funds to employ graduate assistants. When you have a full-time assistantship you can plan to work half time (20 hrs per wk) for the university. If you are a nonresident student and have at least a half-time assistantship or fellowship, you are also eligible for out-of-state fee remissions.

To qualify for graduate assistantships, you must:

- Be admitted to a graduate degree program at UWSP.
- Be in good standing in the degree program (maintain at least a 3.0 GPA).
- For a research assistant, enroll for at least 9 graduate credits per semester or 5 during the summer. For a graduate assistant enroll for at least 4 graduate credits per semester or 3 during the summer.

We recommend that graduate assistants limit their maximum course loads to 9 credits a semester.

We award assistantships on a competitive basis through departments to students admitted to a graduate program. Departments normally screen applications in the spring for fall appointment. Contact your department graduate coordinator for the criteria used to select graduate assistants.

If you are selected for an assistantship, you will enter into a contract with the university. The contract includes a description of the position offered, stipend, and length of employment. Discuss the specific nature of your responsibilities as a graduate assistant with your immediate supervisor at the beginning of your appointment.

As a graduate assistant you are normally required to be on campus for the same work periods as faculty. You are entitled to official holidays and normal break periods between sessions. Your specific work schedule, however, is

at the discretion of your immediate supervisor. This is usually your graduate coordinator or department chair if you are a graduate assistant, or your graduate adviser if you are a research assistant. Arrange your work schedule at the beginning of the semester so that it does not conflict with your class schedule. If you need to negotiate work schedule changes, you must do so BEFORE you need them.

Categories of Graduate Support

With a "full" graduate assistantship you are expected to work half time which is at least 20 hours per week in a regular session and 10 hours per week in a summer session. The remaining half time is devoted to your academic Program of Study. Therefore, we actively discourage employment in addition to the assistantship.

Graduate Assistant

As a graduate assistant you get professionally-related assignments that assist the university such as paper grading, assisting faculty in laboratory sections, research projects, developing materials for classroom instruction, assisting in departmental libraries, etc. You may be assigned duties such as gathering, organizing, and analyzing information for a department which may entail routine clerical, secretarial, or accounting procedures. However, the main thrust of the assignment is a learning experience.

The funds to support graduate assistants come directly from the university on a fiscal-year basis. Consequently your appointment is for a semester or academic year and cannot be assured for more than one academic year at a time.

As a graduate assistant you are an employee of the university, and your salary is taxable. You may be eligible for insurance benefits. Contact the Staff Benefits Office for more information.

Instructional Assistant

As an instructional assistant you will be given professionally related instructional assignments in the classroom under the direction of a graduate faculty mentor. You are also expected to participate in an instructional training and assessment program during your assistantship appointment. The instructional assistantship is a subcategory of graduate assistantships and, therefore, your salary is taxable. You may be eligible for insurance benefits. Contact the Staff Benefits Office for more information.

Research Assistant

As a research assistant you get paid for performing certain research duties. Research assistantships are only available in graduate programs where research is required as part of the degree requirements of all students who are candidates for the same degree. The assigned duties must be directly applicable to your degree requirements. The funds for the stipend may come directly from the university or from an external sponsoring agency. Since the research is a degree requirement, the service you provide the university as a research assistant is taxable. You may be eligible for insurance benefits. Contact the Staff Benefits Office for more information.

Program/Project Assistant

Usually an external source provides funds to employ program/project assistants. Your duties as a program/project assistant are similar to those of the graduate assistant but are usually more specific and are dictated to the university by the sponsoring agency in a grant or contract. Taxability and benefits are the same as the graduate assistant.

Graduate Fellowship

A fellowship is a gift and requires no services from the recipient. The nontaxable funds come to the university from an external source, usually through a grant or contract. If you receive a fellowship, you cannot provide any service to the university or the sponsor for the funds you receive. To remain eligible for a fellowship you need to be in good academic standing in an approved academic program and participate in a prescribed Program of Study.

Student Research Fund

The Student Research Fund provides graduate students with funds to help defray research expenses that are required for their master's degree. If your degree program requires research or if you choose a research option in your program, you are eligible to apply for a grant from this fund. Your graduate adviser must certify that:

- The research project is required for graduation.
- You are making satisfactory degree progress.
- The funds are necessary to complete the research.

Proposal deadlines occur twice each semester. Contact the Grant Support Office for application forms. A review committee screens the grant applications and makes award recommendations.

Fee Waivers for Out-of-State Students

If you are a nonresident graduate student with at least a one-half assistantship or fellowship for the academic year, you qualify for out-of-state fee remission. If funds are available to the university for this purpose, your college dean may grant the remission based on the description of duties in the assistantship or fellowship contract. The fee waiver is NOT automatic. You must indicate to your department that you believe you are eligible for the out-of-state fee waiver.

Other Financial Aid

Obtain information about loans and other sources of financial aid from the Financial Aid Office. Graduate students are not eligible for U.S. government-sponsored grants such as Pell Grants. You must be making satisfactory academic progress toward your degree (described earlier in this catalog) to be eligible for financial aid.

Part-time Employment

We discourage part-time employment because a full academic credit load of graduate studies requires so much of your time. If you are working full time, we recommend that you register for no more than 6 credits a semester or 3 credits for an eight-week session. We especially discourage supplemental employment if you have a full-time graduate assistantship.

Checklist for Master's Degrees

Below is a series of steps, in chronological order, that you should complete in order to obtain a graduate degree from UW-Stevens Point. Since the requirements are different for each degree, not all the steps listed will apply to your degree plan. However, the list is provided for you to keep

track of your progress as you work toward the completion of your degree requirements. Nearly all of the steps require you to fill out a printed form and get it approved before you move on to the next step.

Procedure/Event	Time Frame for Completion	Comments
Apply for graduate study (Get form at Admissions Office, 102 Student Services Center).	Before registering for a graduate class.	Required of ALL students attempting to earn a graduate degree.
Pay \$45 application fee.	When you apply to a graduate degree program with graduate regular status.	Not required of graduate special students.
Have official transcripts (except those from UWSP) sent to Admissions Office.	Before graduate regular status can be determined.	Not required of graduate special students.
Admissions will send your application file to the graduate program coordinator of your intended field of study.		
Submit other required documents to graduate program. Includes GRE scores, letters of reference, interviews, certification, other.	Before the application to a degree program can be considered.	Check with the graduate coordinator of the specific degree program. Not all programs require all of this information.
Acceptance by the graduate program.	During first semester of residence.	
Assignment/selection of graduate adviser	Early, but depends on each program.	
Assignment/selection of graduate committee.	Early, but depends on each program.	Do this as soon as possible. Not required in all degree programs.
Program of study form, filed and approved.	Before you acquire 15 credit hours.	
Admission to candidacy.	Before you acquire 15 credit hours.	
Thesis/research topic approval. Varies with program.		
Culminating experience --Clinical semester/practicum --Comprehensive exam --Seminar --Seminar paper --Educational product --Exhibition/recital --Thesis	Approved 30 days before graduation. Deposited in LRC 10 days before graduation (if participating in commencement ceremony). Approved and deposited in LRC by graduation date (if not participating in ceremony).	
File application for graduation.	Before the start of your last semester.	
Application for graduation approved.	Approximately two weeks before graduation.	

GRADUATE PROGRAMS

Biology

Robert A. Bell, Graduate Coordinator
Room 167A, College of Natural Resources Building
Phone: 715-346-2159
E-mail: biology@uwsp.edu OR rbell@uwsp.edu

The Biology Department offers the Master of Science in Teaching (MST) degree. The program is designed for teachers and includes some work in education. If you are interested in a Master of Science (MS) degree, examine the Master of Science in Natural Resources. Several biologists have joint appointments in the College of Natural Resources and serve as major advisers for that degree.

To determine your specialization within a degree, meet with your graduate committee. If you are admitted without deficiencies, you have great flexibility in designing your program. In the MST, you may take credits in the liberal arts category (in addition to biology) in chemistry, geology, and physics.

As a secondary school teacher, the MST program will give you the opportunity for advanced study, experimentation, research, and involvement in various professional activities.

Admission to the Program

A three-member admissions committee reviews your application to determine if you have completed the equivalent of UW-Stevens Point's undergraduate major with collateral requirements in chemistry and mathematics. If you are missing required courses, they list these as deficiencies, and you complete these at the undergraduate level.

In order for you to be admitted, your grade point average (GPA) in your major, including collateral courses, should be 3.00 (B) or higher. If it is below this level, the committee reviews your overall GPA. If this is below 3.00, they usually suggest that you enroll as a graduate special student to demonstrate your ability to perform graduate-level work. You are accepted into a thesis plan only when a faculty member agrees to serve as your thesis adviser.

Culminating Experience

Nonthesis Option: Under this option you complete a research paper which grows out of your participation in Education 707, Educational Research. You also take a final oral or written comprehensive examination administered by your graduate committee. This is based primarily on the courses you have taken in the degree program but also may review your knowledge of concepts and your problem-solving skills.

Thesis Option: Under this option your thesis committee reviews your thesis research proposal and evaluates the final product. You also take a final oral examination based primarily on the thesis, but it also may include questions on coursework you've taken and your knowledge of concepts.

Communication

Chris Sadler, Graduate Coordinator
Room 312, Communication Arts Center
Phone: 715-346-3898 or -3409
E-mail: communication@uwsp.edu OR csadler@uwsp.edu

In the Division of Communication you may work toward the Master of Arts (MA) in Communication degree specializing in organizational communication, interpersonal communication, public relations, and mass communication. Many students elect to take most of their coursework in one area and one or two courses in an adjunct area. Some will achieve a blend between areas, depending upon how they define an area of concentration. Working with your adviser, you define a plan of study best suited to your career goals.

Although a full-time student can complete this program in two years, many plan a two to five year part-time program. You must earn a minimum of 30 graduate credits, plus one credit for colloquium, but many students finish with more than 31 credits.

Admission to the Program

To be admitted to the Master of Arts in Communication program you need to:

1. Complete a baccalaureate degree from an accredited institution.
2. Submit undergraduate transcripts with GPAs.
3. Submit results of the Graduate Record Examination. (You may appeal to the graduate coordinator for an exception.)
4. Submit a statement of purpose which explains what role the completed degree will play in your future.
5. Submit a 5-7 page sample of your writing ability.
6. Write a brief analytical/critical response to a common essay provided to all applicants.
7. Provide two letters of recommendation that address the likelihood of your success in a graduate program.
8. Document relevant work experience that you want the admissions committee to consider.
9. If you are a foreign student, present a current TOEFL score of 575 or higher. Please inquire about other requirements for foreign students.

Additional Information

1. You will be admitted to the graduate program in communication on a **probationary** basis.
2. Full-time students are admitted in the fall only.
3. Required:
 - a. Take at least 15 credits of 700 level courses (no more than 3 credits may be independent study).
 - b. Take Comm 701 and 702 plus at least two additional graduate level communication seminars.
 - c. As part of your colloquium, give a presentation based on your thesis or project.
4. After you are admitted to the program you have seven years to complete your degree. It is your responsibility to be aware of this timeline and to complete the degree within the allotted time.
5. Be aware that after you have been admitted into the program you may still be asked to do remedial work if your undergraduate transcript indicates insufficient preparation for master's level communication courses.

Admission to Candidacy

You provide supporting materials (papers, exams, recommendations, etc.) based on your first 6 credits of

work. The graduate program committee reviews these materials to decide your continuing status:

1. **MA candidate:** If your work is acceptable, the committee grants you candidacy and clearance to establish an advisory committee and obtain approval of your Program of Study.
2. **Conditional candidate:** If your work shows promise, the committee will grant you conditional candidacy and will re-evaluate your status once you have completed their recommendations.
3. **Graduate Special student:** If your graduate-level work is unacceptable, you are eligible to take courses but may not continue in the graduate degree program. You may appeal this status by writing to the graduate coordinator and graduate program committee or apply to another program.

Typical Timeline

After completing 6-9 credits meet with the graduate coordinator to establish a tentative plan of study which outlines the courses you intend to take and establishes a thesis/project committee. While the official plan of study is not completed until you form your graduate committee, it is important to discuss your plans with the graduate coordinator to ensure that you are making adequate progress toward completing your degree.

After you complete approximately 18 credits you should formally complete your plan of study and select a graduate committee to direct your thesis or project. You choose the members of your graduate committee that consists of a chair and two readers who all must have graduate faculty status at UWSP. The most important member on this committee is the chair, the person you will be working with while completing your thesis or project.

Program Planning

You may choose one of two options:

Option 1—Thesis: 24 credits of coursework, plus 6 credits for thesis, and one colloquium credit. This option allows you to conduct a research project (approx 100-150 pages) that can help you prepare for entering a PhD program or complete a more detailed and/or theoretical examination of a topic of interest. After you have completed at least 15 credits, the advisory committee approves the selection of a thesis topic, rationale, and method to be used for the study. When the advisory committee approves your thesis project proposal, you must enroll in one or more hours of thesis or project credit to maintain your status as an MA candidate. We count no more than 6 thesis credits toward your 31 credit degree requirement.

Option 2—Project: 27 credits of coursework, plus 3 credits for project, and one colloquium credit. This option allows you to conduct a study (approx 50 pages) of a work situation, write about and direct a production, or examine a topic of interest from a more applied perspective. After you have completed at least 15 credits, the advisory committee approves the selection of your project topic, rationale, and method to be used for conducting the project. When the advisory committee approves your project proposal, you must enroll in one or more hours of project credit to maintain your status as an MA candidate. We count no more than 3 project credits towards your 31 credit degree requirement.

Process for Completing the Thesis/Project

1. With the chair of your committee, write a prospectus (a proposal of 20-30 pages) that outlines the thesis/project topic and the methods you will use to conduct the study. After the remaining committee members have read your prospectus, you must orally defend it to your committee.
2. After approval of the prospectus, conduct your study and write the thesis or project. Once you and your chair feel the written thesis/project is ready, have the remaining committee members read it and set a date to orally defend the thesis/project to the committee.
3. Make any final revisions that are required by the committee. Arrange with the library to have at least four hardbound copies made. After receiving your bound copy, the library certifies that your thesis/project is complete. The graduate coordinator and registrar then conduct a final audit of your work before approving you for graduation.

Communicative Disorders

Leslie Plonsker, Coordinator of Academic Programs
Room 048, College of Professional Studies Building
Phone: 715-346-4835

E-mail: commdis@uwsp.edu OR lpionske@uwsp.edu
Web: www.uwsp.edu/commd

In the School of Communicative Disorders you may work toward the Master of Science (MS) degree with either of two specialization options: speech-language pathology or audiology. In each area you receive the academic background and clinical practicum required to function competently and independently in a variety of professional employment settings.

The School of Communicative Disorders at UW-Stevens Point was among the first in the country to be accredited by the Education and Training Board of the American Speech-Language-Hearing Association. The program provides a quality education that emphasizes training in the prevention, evaluation, and treatment of disorders of hearing, speech, and language. Our graduates are located from coast to coast and in foreign countries in schools, universities, hospitals, and public and private clinics.

Clinical training begins at the undergraduate level and culminates with a clinical semester at the end of your graduate program. In consultation with the director of Clinical Services, you select a site (school, clinic, hospital, etc.) for a 15-week, concentrated, supervised practicum.

Admission to the Program

For either specialization you must have completed specific courses and practicum experiences at the undergraduate level. The coordinator of academic programs determines whether you have any deficiencies that you must eliminate as soon as you enroll in the graduate program. For a detailed list of course content and practicum experiences required at the undergraduate level, ask for a packet of graduate application materials, or see the communicative disorders Web site, www.uwsp.edu/comd.

Admission to Candidacy

You must complete at least 9 credits of graduate work with a GPA of 3.00 (B) and not more than one grade of B-

Specializations

In either specialization you must meet the minimum standards for clinical certification as established by the American Speech-Language-Hearing Association that are in effect at the time you graduate.

Culminating Experience

In either area of specialization, you must fulfill a clinical semester (15 credits) after you have completed the appropriate coursework and clinical practicum. In the clinical semester, you are assigned full time for one academic term to a hospital, clinic, school, etc. to gain professional experience in the type of setting that most interests you.

Education

School of Education Graduate Advising Office
Patricia Caro, Director of Graduate Studies for the School of Education

Room 438, College of Professional Studies Building
Phone: 715-346-4403 or 3248; Fax 715-346-4846
E-mail: pcaro@uwsp.edu

OR Education.Graduate.Advising.Office@uwsp.edu
Web: www.uwsp.edu/education/graduate/

The School of Education offers the following graduate programs:

- Master of Science in Education-Elementary Education. Open to certified teachers.
- Master of Science in Education-General. Open to certified elementary or secondary teachers with two or more years **full-time** teaching experience.
- Master of Science in Teaching. Refer to biology, English, and history—the three departments that offer this degree.

You may also work toward:

- Master of Science in Education: Educational Administration **OR** the Specialist in Education: Educational Administration, offered in cooperation with UW-Superior.
- Master of Science in Education: Guidance and Counseling, offered in cooperation with UW-Oshkosh.

Resources

School of Education (SOE) Graduate Advising Office

Room 438, College of Professional Studies Building
Phone: 715-346-4403

Web: www.uwsp.edu/education/graduate/

- School of Education graduate program admission
- Graduate level certification programs (reading, early childhood education, special education)
- Graduate/undergraduate catalog (upon admittance to program)
- Program planning and adviser assignment
- Planning sheets/program outlines
- Program of Study change forms
- Credit checks
- Graduate exams in education
- Application for graduation

Admissions Office

Room 102, Student Services Center
Phone: 715-346-2441

Web: www.uwsp.edu/admissions

Registration and Records Office

Room 101, Student Services Center
Phone: 715-346-4301

Web: www.uwsp.edu/reg-rec

- On-campus timetables
- Registration information
- Requests for official transcripts
- Application for graduation

Professional Development Network (PDN)

Room 330, College of Professional Studies Building
Phone: 715-346-3801

Web: www.uwsp.edu/cps/network

- On- and off-campus offerings for nontraditional students
- Courses for add-on certifications

UWSP Extension Office

Room 032, Old Main Bldg; 8 am–6 pm; Monday-Friday
Phone: 715-346-3838 or 715-800-898-9472

Web: www.uwsp.edu/extension

- Off-campus course listings and timetables
- Registration for outreach and distance learning courses

Master of Science in Education –Elementary Education

Admission to the Program

1. Submit an application to pursue graduate study at UW-Stevens Point to the Admissions Office.
 - a. Be aware that you must make your initial application to the Admissions Office **before** you can be admitted to the MSE-Elementary Education program.
 - b. To allow time for processing, we recommend that you apply no later than mid-semester of the semester **before** you want to be admitted.
 - c. The UWSP Admissions Office processes your application and notifies you when your materials are being forwarded to SOE Graduate Advising. Your application will then be reviewed by Graduate Advising for admission to the “program.”
2. Submit official transcripts covering your undergraduate coursework and any additional coursework listed on your application.
3. Send a copy of your teaching license to SOE Graduate Advising.
4. Have an undergraduate grade point average of 3.00 or higher. If your GPA is less, you may be admitted on probation, but will then need to establish a minimum 3.00 GPA on your first 9 resident graduate credits at UWSP to be fully admitted.
5. Complete no more than 9 credits of graduate work. You may apply earlier, but you should be admitted to the program and **meet with your adviser before you have completed 9 graduate credits.**

Admission to Candidacy

Admission to candidacy (program planning) does not occur until after you have applied to pursue graduate study at UWSP through the Admissions Office and been admitted to your elected program through the SOE Graduate Advising Office. Once you are admitted you will receive a university catalog, “working copy” form, and planning guidesheet to use as you prepare your proposed plan of study. You will also be assigned an adviser.

To be accepted as a candidate:

1. Remove any academic deficiencies and/or complete all subject matter prerequisites.
2. Maintain at least a 3.0 (B) grade point average in all your graduate work.
3. **Because you may include no more than 9 completed graduate credits in your official Program of Study, submit your proposed plan of study and rationale statement BEFORE you complete 9 graduate credits.**
4. Receive approval from your graduate adviser for your Program of Study.

The Program

Earn 30 credits in graduate courses:

1. **Professional education:** 9 credits that include foundations, curriculum, and research courses. (Educ 782 may substitute for Educ 707 only with adviser approval prior to enrollment.)
2. **Liberal arts:** 6-9 credits outside education (courses without the EDUC prefix).
3. **Area of specialization:** of the remaining education credits, at least 3 must be from courses in instructional methods, supervision and instruction, reading, foundations, etc. Advisers may approve exceptions for 500 level courses.
4. Fifteen credits must be at the 700 level.

Culminating Experience

Complete one of these two options:

Thesis Option: Write a thesis and a comprehensive examination covering the liberal arts area of your program.

Nonthesis Option: Take Educ 707 or 782 and write a comprehensive examination. You must have at least 24 credits completed toward your Program of Study including the required component area coursework before you can register to write your exam. The graduate exam will include foundations, liberal arts, and 6 additional credits in your area of study. You may not write on practicum, independent study, or research work. Register for the exam one semester before you plan to take it. To register and for more information, contact Graduate Advising 715-346-4403.

Exit Interview (credit check for graduation)

You must complete an exit interview one semester **before** the semester in which you plan to graduate. This interview generates a credit check on your progress and requirements and provides a one-semester "cushion" to cover discrepancies. You will receive a graduation application at the interview and you apply for graduation after the interview.

Deadlines: Decide on the term in which you anticipate receiving your diploma. Schedule your credit check, sign up for exams and apply for graduation by the month indicated.

- Apply by August for December diploma and graduation ceremony.
- Apply by December for May diploma and graduation ceremony.
- Apply by December for August diploma. There is no ceremony in August; however, you may request to participate in the May or the December ceremony.

Master of Science in Education-General

This degree is for licensed teachers with at least two years of **full-time** elementary or secondary teaching experience. Substitute teaching will be considered for this requirement,

but student teaching and interning will not. The program allows you to design a Program of Study that meets your specific needs. You may incorporate credits from several disciplines into the 30 required graduate credits provided you can verify a professional need for them.

Admission to the Program

Follow steps 1-5 as listed for MSE-Elementary Education above. In addition, you will need to:

6. Have an employing official provide a letter certifying that you have two or more years of **full-time** teaching experience. Interning and student teaching experience do not apply, but substitute teaching will be considered. For substitute teaching, have an employing official provide a letter documenting the number of days of substitute teaching with less than five hours a day and the number of days with five or more hours per day.
7. Have an employing official provide a letter of reference for you.

Options for MSE-General

Elect ONE of the following three options:

- **Option A, professional and subject matter content:** Requires a minimum of 6 credits outside education, i.e., courses without an EDUC prefix.
- **Option B, specialization or certification:** Minimum of 18 credits leading to a state certificate or credits in a specialty area such as reading teacher (316), reading specialist (317), any of the special education certifications, gifted/talented specialization, technology and leadership specialization, early childhood education certification, English as a second language (ESL), or a block of courses designed for initial or advanced graduate work by School of Education as part of your master's degree.
- **Option C, content specializations outside the School of Education:** 21 credits from outside education, i.e., courses without an EDUC prefix. Secondary candidates will pursue this option.

Admission to Candidacy

Same as MSE-Elementary Education above.

You must submit a rationale statement with the proposed plan of study that explains how the proposed courses will enhance your professional expertise and how they reflect your personal, professional, and academic interests and needs. Generally, you can group courses into categories (curriculum, math, reading, etc.) and write a rationale for each group. You may prepare the rationale statement in paragraph format and attach it to the "working copy."

Please note that the "working copy" is **NOT** the final Program of Study. It is a tool used to assign an adviser whose background most closely parallels your area of interest and/or expertise. The "working copy" will be used at your advising conference to develop a formal Program of Study which your adviser will approve.

SOE Graduate Advising makes all official adviser assignments after your proposed plan of study and rationale statement have been received. You may **request** a specific adviser at this time. SOE Graduate Advising will send you a letter of adviser assignment which includes the address, phone number, and e-mail address of your adviser. You will need to schedule an advising conference with your assigned adviser in order to have your proposed plan of study officially approved.

You will receive a copy of the official Program of Study once the advising process has been completed. The original will

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be retained in SOE Graduate Advising. If you want to change your officially approved Program of Study, you must fill out a "change of study" request and forward it to SOE Graduate Advising for processing prior to enrollment in the new class. Contact SOE Graduate Advising if you have further questions regarding changes to your Program of Study.

Culminating Experience

Complete one of the following options:

Thesis Option: Write a thesis and a comprehensive examination covering liberal arts.

Nonthesis Option: Enroll in either Educ 707 or 782 (as approved by your adviser) and complete a comprehensive examination covering 12 credits from your Program of Study that includes required foundations, curriculum components, and an additional 6 credits from Area 2 of your Program of Study. You may not write on practicum, independent study, or research work. You must have at least 24 credits completed toward your Program of Study, including the required component area coursework, before you can register to write your exam. Register for the exam one semester before you plan to take it. For more information, contact SOE Graduate Advising, 715-346-4403.

Exit Interview (credit check for graduation)

Same as MSE-Elementary Education above.

Graduate Certification Programs

The School of Education offers graduate certification programs in:

1. **Exceptional Education**
 - a. Early Childhood Special Education
 - b. Emotional/Behavioral Disabilities
 - c. Learning Disabilities
 - d. Cognitive Disabilities
 - e. Multicategorical Special Education
2. **Reading**
 - a. Reading teacher (316)
 - b. Reading specialist (317)
3. **English as a Second Language (ESL)**
4. **Early Childhood Education**

You may complete these certifications as specializations in the MSE (General) degree via Option B or by enrolling as a graduate special student and pursuing certification only. Please forward a letter of intent to SOE Graduate Advising indicating which certification you wish to pursue. A file will be established for you and an adviser assigned. Curriculum requirements for each of the certification areas are described below.

NOTE: If you are pursuing graduate level certification, you must **DECIDE EARLY** whether to incorporate credits for certification as part of the MSE-General degree. You may obtain a master's degree which incorporates certification by taking a course in each of the required component areas (foundations, curriculum, and research). You can have no more than 9 completed graduate credits at the time your official Program of Study for the master's degree is approved.

The certification program plan is NOT the same as the master's Program of Study. The certification program plan outlines coursework required for certification only. The master's program plan outlines coursework required for the awarding of the master's degree. In some cases, coursework will apply to both programs. Certification candidates, therefore, will have two program plans on file:

one which leads to certification and another which leads to the awarding of the master's degree. It is conceivable that a candidate may complete the requirements for one program plan prior to completing requirements for the other program plan. For further information contact SOE Graduate Advising, 715-346-4403.

Graduate Certification Programs in Exceptional Education

You may complete these certifications as specializations in the MSE-General degree via Option B or by enrolling as a graduate special student and pursuing certification only.

Early Childhood Special Education

To receive certification, fulfill these requirements:

1. Professional preparation: Complete a bachelor's degree in early childhood ed, exceptional ed, or elementary ed, including these required courses: Educ 570 (Workshop in Educ: Curriculum/Methods for Young Children), Educ 398; and Psych 260 or HD 261.
2. General exceptional education: Educ 551 and 778.
3. Area of specialization: Educ 565, 566, 567, 781.

NOTE: If you are certified in related service fields such as physical therapy, speech/language pathology with a master's degree, etc., but do not have a prior degree with certification in education, you can pursue an emphasis in early childhood special education needs in order to augment your skills in working with this population. This avenue will NOT lead to teacher certification unless you elect to take the courses that lead to that certification.

Emotional/Behavioral Disabilities

To receive certification, fulfill these requirements:

1. Professional preparation:
 - a. Complete a bachelor's degree in elementary or secondary ed, including these required courses: Educ 309 or 386; Educ 351, 381, 383, 398; methods courses for instructional areas; and Psychology 260 or HD 261.
 - b. If you are certified in other areas of special education, complete these professional education courses: Educ 309 or 386; Educ 351, 381, 383, 398; methods courses in regular curriculum; Psychology 260; or equiv graduate level courses.
2. General exceptional education: Complete Communicative Disorders 567; Educ 556, 568, 704, 778.
3. Area of specialization: Complete these, with emphasis in emotional disabilities: Educ 564, 569, 781.

Learning Disabilities

To receive certification, fulfill these requirements:

1. Professional preparation:
 - a. Complete your bachelor's degree in elementary or secondary ed, including these required courses: Educ 309 or 386; Educ 351, 381, 383, 398; methods courses for your instructional areas; and Psychology 260 or HD 261.
 - b. If you are certified in other areas of special education, complete these professional education courses: Educ 309 or 386; Educ 351, 381, 383, 398; methods courses in regular curriculum; or equivalent graduate courses.
2. General exceptional education: Communicative Disorders 567, Educ 556, 568, 704, 778.
3. Areas of specialization: Complete with emphasis in learning disabilities: Educ 564, 569, 747, 781.

Cognitive Disabilities

To receive certification, fulfill these requirements:

1. Professional education:
 - a. Complete your bachelor's degree in elementary or secondary education, including these required courses: Educ 309 or 386; Educ 351, 381, and 383 and 398; methods courses for your instructional areas; and Psychology 260 or HD 261.
 - b. If you are certified in other areas of special education, complete these professional education courses: Educ 309 or 386; Educ 351, 381, 383, 398; methods courses in regular curriculum; Psychology 260; or equivalent graduate courses.
2. General exceptional education: Complete Communicative Disorders 567, Educ 556, 568, 704, 778.
3. Areas of specialization: Complete these courses, with an emphasis in mild-moderate cognitive disabilities: Educ 564, 569, 781.

Multicategorical Special Education Graduate Certification Program

This is a fast-track preparation program for teachers who are already certified in regular or special education and are provisionally certified in a category of special education. It consists of two consecutive 9-10 credit summer institutes and 5 credits over the regular school year. Check with SOE Graduate Advising for availability of this program.

Before you begin any coursework, you must develop a Certification Outline with your major professor. It will designate the content areas you will study for the certification you are seeking. Depending on your background and assessment of competencies, you could take some of the courses for variable credit (to be determined by your adviser). This will allow you to either specialize in one area or obtain equal coursework in each area.

Entrance qualifications for multicategorical special education are:

1. Be a certified teacher.
2. Be admitted to Graduate Studies.
3. Be provisionally certified in an area of special education.
4. Have a minimum of 3 credits (Educ 351/551).
5. Be able to commit to two consecutive summer programs for 9-12 credits each.

Course of study is:

1. Summer I: 9 credits from Educ 556, 564, 568.
2. Semester I: Educ 781.
3. Semester II: Communicative Disorders 567 or 797 (normal language and language disorders).
4. Summer II: 12 credits from Educ 569, 704, 747, 778.

Graduate Certification Programs in Reading

You may complete these certifications as specializations in the MSE-General degree via Option B or by enrolling as a graduate special student and pursuing certification only.

Reading Teacher (316) Certification

NOTE: You must have two years of successful regular classroom teaching experience in addition to the coursework for certification.

To receive certification you must earn 9 credits (6 from Area A and 3 from Area B) as described below. You can take them at the graduate or undergraduate level, but note

that if you are applying the credits to a master's degree, they must be at the graduate level. Before you take Educ 741 you must take Educ 309, 310, 386/586, or English 381/581 (for English majors).

1. **Area A**, 6 credits: One course is required at both elementary and secondary levels.
 - a. Elementary: Educ 309 or 310.
 - b. Secondary: Educ 386/586 OR English 381/581.
2. **Area B**, 3 credits from Educ 327/527, 383/583, 706, English 275, 375/575.
3. Also earn 12 credits (plus any prerequisites) from Educ 741, 746, 747, 748.

Reading Specialist (317) Certification

You may complete 317 certification either as a specialization in the MSE-General degree via Option B or by enrolling as a graduate special student and pursuing certification only. Meet the following requirements:

1. Complete a master's degree.
2. Meet the requirements for reading teacher (316) certification as outlined above.
3. Complete Educ 328/528, 749, 750, and 798.

Master of Science in Education: Guidance and Counseling

UW-Stevens Point cooperates with UW-Oshkosh in their degree program leading to guidance certification with different emphases. For more information, contact SOE Graduate Advising, 715-346-4403.

Master of Science in Education: Educational Administration -OR- Specialist in Education: Educational Administration

These programs are offered in cooperation with UW-Superior. For more information, contact SOE Graduate Advising, 715-346-4403.

English

Michael Williams, Graduate Coordinator
 Room 486, Collins Classroom Center
 Phone: 715-346-4757
 E-mail: m2willia@uwsp.edu

In the English Department you may work toward the Master of Science in Teaching-English or the Master of Science in Teaching-Reading Certification in English. If you seek to teach English or reading, you can gain advanced knowledge and training through these programs.

Admission to the Program

To be accepted into the MST program you must have a bachelor's degree with an English major. If you have less than this, the graduate coordinator may grant you provisional acceptance.

Admission to Candidacy

To be admitted to candidacy, successfully complete 9 graduate credits with at least a B (3.0) average.

The Program

Take at least half of your English credits at the 700 level.

- 1. Master of Science In Teaching-English**
 - a. Complete 18-24 credits in English courses selected with graduate coordinator approval.
 - b. Complete 6-9 credits in education courses.
 - c. With graduate coordinator approval, you may substitute 3 graduate credits in another liberal arts area for 3 credits in English.
- 2. Master of Science In Teaching-Reading Certification In English**
 - a. Complete 15-18 credits in reading courses (up to 6 at undergraduate level) including: Educ 746, 747, 748; other courses approved by graduate coordinator to total 15-18 credits.
 - b. Complete 18-21 credits selected with graduate coordinator approval.

Culminating Experience

Before you complete 21 credits, select one of the four options below and notify the department chair.

1. Portfolio of papers, publications, and professional presentations submitted to and approved by a committee of graduate faculty appointed by the department chair, 2-4 credits.
2. Project that is an outgrowth of English 712, 755, or 781, 1 credit.
3. Thesis in literature or some aspect of teaching English, 2-6 credits.
4. Written comprehensive examination based on two areas of specialization from your English coursework.

History

Sarah (Sally) Kent, Graduate Coordinator
Room 422, College of Professional Studies Building
Phone: 715-346-2334
E-mail: history@uwsp.edu OR skent@uwsp.edu

You may earn a Master of Science in Teaching in History or in History with a concentration in the Social Sciences. You may also earn a Master of Science in Education-General degree with a History concentration. In these programs you study specific historical periods or topics, acquire new information, learn the latest interpretations, and evaluate the latest methods of teaching the subject.

Admission to the Program

The minimum requirements for admission to the MST program are:

1. Application to Graduate Study,
2. An undergraduate major in history or social sciences,
3. A 2.75 cumulative GPA in your undergraduate work.
4. A 3.00 GPA in your undergraduate major.
5. If you do NOT meet all these criteria, you may appeal to the History Department Graduate Committee for acceptance on probation.
6. Complete a Program of Study form in consultation with your adviser, during the first semester you are in the graduate program.

Admission to Candidacy

After you have completed 12-15 credits of graduate work, have an evaluation meeting with your adviser. At that meeting, discuss your program, progress, and potential for success in completing your degree.

The Program

In consultation with your adviser, plan a program that best meets your professional needs. If you wish, you may specialize in a specific field of history.

- 1. MST In History.** To earn your degree:
 - a. Achieve a 3.25 GPA in 30 credits of graduate coursework.
 - b. Earn at least 18 credits and no more than 24 in history, at least 12 of them at UW-Stevens Point. Earn at least 9 of these credits in courses numbered 700 and above and at least 6 of them at UW-Stevens Point.
 - c. Complete History 782 or 784 or 786. Do not concentrate all your work in any one area (e.g., American, European, or non-Western); earn at least 3 credits in a second area.
 - d. Earn 6-9 credits in 700 level education courses.
- 2. MST In History with Social Science concentration.** Complete 30 graduate credits.
 - a. Earn 12 credits in history, at least 9 in courses numbered 700 and above and with at least a 3.25 GPA.
 - b. Earn 12 credits, with your adviser's approval, in one or more of the social sciences.
 - c. Earn 6 credits in 700 level education courses.
- 3. MSE (General) with History concentration.** For full information on this degree, see the section in this chapter on **Education**. As part of the 21 credits toward this degree in your area of subject content or specialization, you may take history credits under the professional option. Under the liberal arts option, you may take up to 21 credits in history.

After consulting with your education and history advisers, you determine your Program of Study in your area of specialization. Earn one-half of the credits in history courses numbered 700 and above. Also maintain at least a 3.25 GPA in history courses. If you wish to make exceptions to these history requirements, the history department chair, graduate committee, and graduate program coordinator must approve them.

Culminating Experience

The Thesis Option. If you choose to write the thesis, select a topic in consultation with your adviser and inform the graduate coordinator. After you submit the completed thesis, take an oral examination on it conducted by your thesis adviser and two other members of your department chosen by your adviser in consultation with you.

To pass this exam, your adviser and one other member of your committee must approve both your thesis and your responses. You must then take a written comprehensive examination consisting of one question in education. For further information on the thesis, contact the History Department Office.

Research Paper/Comprehensive Exam Option. If you choose to submit a research paper, you must also take a written comprehensive examination in history and education. If your degree is in history, you must display thorough factual and bibliographical knowledge of at least one area of history. If your degree is in history with a social science concentration, you must display the same knowledge of one area of history and one social science.

Portfolio Option. The third option for the culminating experience consists of the creation of a professional portfolio compiled under the supervision of a committee chaired by one department member whom you select, the

graduate coordinator, and a third member of the department. The portfolio will consist of three parts:

1. Resume and statement of your teaching philosophy.
2. Academic materials (examinations, papers, book reviews, and so forth) produced in your graduate history courses.
3. A detailed course proposal and a sample of accompanying materials (i.e., lectures, in-class exercises, and homework assignments) that emerge out of your graduate coursework in history.

In addition, you must write two comprehensive questions for the component of the MST in the School of Education.

Resources

In the government publications division of the Learning Resources Center you will find a rich collection of public documents on international and national as well as state and local topics. As an Area Research Center, the LRC collects U.S. government publications and Wisconsin government publications. It also has a growing collection of public documents and private papers. With these materials, you may research such areas as 20th century diplomatic and military history, English history, 18th and 19th century United States history, and American Indian history.

Human and Community Resources and Nutritional Sciences

Kathy McKinney, Graduate Coordinator in the School of Health Promotion and Human Development
 Room 236, College of Professional Studies Building
 Phone: 715-346-4084
 E-mail: hphd@uwsp.edu OR kmckinne@uwsp.edu
 Web: www.uwsp.edu/hphd/academics/NutriSci.asp

Abbreviations

FCE = Family and Consumer Education
 FN = Food and Nutrition
 HD = Human Development
 HP/W = Health Promotion/Wellness

You may earn the Master of Science in Human and Community Resources or the Master of Science in Nutritional Sciences. In both programs you have an opportunity for graduate teaching and research assistantships as well as for in-depth clinical/community practitioner experiences.

Human and Community Resources

The Master of Science Degree in Human and Community Resources is designed to broaden your expertise in family and consumer education, child and family studies, health promotion and community resources, or adult education. Each program is developed according to your individual needs and career goals.

Admission to the Program

For the Human and Community Resources program you must hold a baccalaureate degree from an accredited university or college with an undergraduate grade point average of 2.75 or above (based on a 4.0 scale). You must clear any deficiencies before applying for candidacy. We may grant probationary status if you have a GPA below 2.75. Graduate faculty in your program area of emphasis may grant admission with deficiencies.

Admission to Candidacy

Admission to candidacy (program planning) does not occur until after you have applied and are accepted into the human and community resources graduate program at UWSP. Once admitted, you will consult with your adviser to prepare a proposed program of study. Acceptance as a candidate occurs when your graduate committee has approved your Program of Study.

To be accepted as a candidate:

1. Complete no more than 9 credits of graduate work from UWSP. Transfer credits may apply toward completion of your degree, but they are not included in consideration for admission to candidacy. You may apply earlier, but you should be admitted to the program and meet with your adviser before you have completed 9 graduate credits.
2. Remove any academic deficiencies and/or complete all subject matter prerequisites.
3. Maintain at least a 3.0 (B) grade point average in all your graduate work.
4. Receive approval for your Program of Study.

The Program—Human and Community Resources

1. Required core: HD 768, 789, 798.
2. Choose one:
 - a. Human development option: HD 765, 766 with tracks in family and consumer education or child and family studies.
 - b. Family and consumer wellness option: HD 760, HP/W 690 with tracks in adult education or health promotion and community resources.
3. Electives, 9-21 credits.
4. Choose one:
 - a. **Thesis option:** HD 799, 2-6 credits. For those interested in conducting qualitative or quantitative research. Choose a topic in an area similar to the interests of one of the faculty, or propose a project of personal interest. Requires at least 30 graduate level credits, including 3-6 thesis-related credits. Requires written thesis and oral defense.
 - b. **Project option:** HD 797, 2-4 credits. Develop and implement a project designed to accommodate a current community, employment or career need. Requires 32 graduate level credits, including 2-4 project-related credits. Requires written description of project proposal and oral defense.
 - c. **Test-out option:** Requires at least 36 graduate level credits and an examination as the culminating experience. The four-hour examination consists of three essay questions derived from courses in your program of study. Requires passing score on each exam question.

Nutritional Sciences

The Master of Science Degree in Nutritional Sciences addresses the needs of two groups. (1) Students with a background in nutrition or other health field may improve their knowledge base and sharpen their research skills. (2) Registered dietitians or others who are already working in a nutrition/health area may use the degree for career enhancement or professional development.

Admission to the Program

For admission to the Nutritional Sciences program, you need the following:

1. A baccalaureate degree from an accredited university or college and an undergraduate grade point average

- of 2.75 or above (based on a 4.0 scale). We may grant probationary status if you have a GPA below 2.75.
2. Complete the following courses or their equivalent and their prerequisites with a grade of C or better prior to admission: Chemistry 260 (Biochemistry); FN 106 (Introductory Foods) and FN 457 (Advanced Nutrition and Human Metabolism). The program coordinator may grant admission with deficiencies.
 3. A current resume or curriculum vitae.
 4. A letter of intent detailing your background qualifications, career goals, and how this program fits into your future professional plans.

Admission to Candidacy

Admission to candidacy (program planning) does not occur until after you have applied and are accepted into the human and community resources graduate program at UWSP. Once admitted, you will consult with your adviser to prepare a proposed program of study. Acceptance as a candidate occurs when your graduate committee has approved your Program of Study.

To be accepted as a candidate:

1. Complete no more than 9 credits of graduate work from UWSP. Transfer credits may apply toward completion of your degree, but they are not included in consideration for admission to candidacy. You may apply earlier, but you should be admitted to the program and meet with your adviser before you have completed 9 graduate credits.
2. Remove any academic deficiencies and/or complete all subject matter prerequisites.
3. Maintain at least a 3.0 (B) grade point average in all your graduate work.
4. Receive approval for your Program of Study.

The Program—Nutritional Sciences

1. Required core: HD 768, 798; FN 749, 751, 758, 762.
2. Electives to meet your specific needs and goals: 6 credits with thesis option; 9 credits with project option.
3. Choose one:
 - a. **Thesis option:** FN799, 6 credits. For those interested in developing hypothesis testing, data collection, analysis, and interpretation skills while engaging in nutrition-related research. Choose a topic in an area similar to the interests of one of the faculty, or in an area of personal interest. Requires 30 graduate level credits, including 6 thesis-related credits. Requires research proposal presentation, written thesis, and oral comprehensive exam including defense of thesis.
 - b. **Project option:** FN 798, 3 credits. For those employed in a nutrition-related field to develop and implement a program in their current target population. Requires 30 graduate level credits including 3 project-related credits. Requires project proposal presentation, written project report, and oral comprehensive exam.

Music

Patricia Holland, Graduate Coordinator
Room C-124, Fine Arts Center
Phone: 715-346-3119

E-mail: pholland@uwsp.edu OR music@uwsp.edu

In the Music Department you may work toward the Master of Music Education degree with an emphasis in instrumental, vocal/choral, Suzuki talent education, general music,

jazz education, or studio pedagogy emphasis. In this program, you prepare for classroom, performance, and administrative responsibilities as a member of the music teaching discipline. You improve your competency in music philosophy, methodology, literature, and applied musical experiences while learning of the most recent trends and innovations in music education. **Please note that this program does not lead to teacher certification.**

A wide range of activities are available to enhance your abilities as a music educator. Seminars and methods courses illuminate practical and philosophical issues in music education. In the Suzuki talent education curriculum, you participate in the renowned institute which brings several thousand students and teachers to the UW-Stevens Point campus each year. You have access to music department resources such as the Computer Music Center with opportunities to learn and apply technological advancements in the field.

Admission to the Program

To be considered for admission:

1. Complete the university and department application forms for admission.
2. Submit a transcript of all undergraduate or graduate work you have taken at other institutions.
3. Have your past administrators, teaching colleagues, or college teachers in your major area send two letters of recommendation on your behalf.
4. If you wish to have an emphasis in instrumental, vocal/choral, general music, or jazz, you must have state teacher certification. If your emphasis is Suzuki, certification is recommended but optional. If your emphasis is pedagogy, certification is optional.
5. Meet these requirements for certain emphases:
 - a. Instrumental, vocal/choral, general music, jazz: an undergraduate degree in music education.
 - b. Suzuki talent education: an undergraduate degree in music and a Suzuki-related performance area; OR gain admission by faculty evaluation, based on your performance area, music courses taken toward a related undergraduate degree, and significant involvement in Suzuki teaching. You may be required to take additional courses.
 - c. Studio pedagogy:
 - 1) Undergraduate degree in applied music or music ed (teacher certification optional).
 - 2) Approval of faculty in your major area of performance. OR
 - 3) Admission by faculty evaluation, based on performance area, music courses taken toward a related undergraduate degree, and significant involvement in studio teaching and performance. You may be required to take additional courses.

Admission to Candidacy

To be admitted to candidacy:

1. Complete 9 credits with a grade of B or better.
2. Before you complete 15 credits, adopt a Program of Study, including projected courses, the topic of your culminating experience, and the selection of a graduate committee and project adviser, who is also chair of your committee.

The Program

To earn your degree, earn at least 30 graduate credits of which 10 must be in music education courses:

1. Applied music, 4 credits.

2. Music theory and applied creativity, 6 credits. Take a placement exam when you enter. If you have deficiencies, you may be required to take additional theory courses.
3. Music history/literature, 6 credits. Take a placement exam when you enter. If you have deficiencies, you may be required to take additional music history courses.
4. Music education:
 - a. Instrumental, vocal/choral, general music, jazz, Suzuki, 6 credits: Music Ed 786 and 787 (or 788-Suzuki; or 790-jazz)
 - b. Studio pedagogy, 5 credits: Music Ed 789 and Music 691.
5. Thesis option, 0-4 credits.
6. Electives, 4-9 credits. (See below.)

Culminating Experience

Option 1: Thesis, 4 credits; electives, 4 credits (studio pedagogy, 5 credits).

Option 2: Performance, methods and materials paper, 2 credits; electives, 6 credits (studio pedagogy, 7 credits).

Option 3: Seminar paper, 0 credit; electives, 8 credits (studio pedagogy, 9 credits); and comprehensive final examination.

No matter which option you choose, make an oral defense, demonstration or other presentation appropriate to the option before your committee. Select one of the three options in cooperation with the graduate coordinator and your project adviser. The options may include a wide variety of activities in research, performance, and teaching methods.

Natural Resources

Christine Thomas, Graduate Coordinator
 Room 265, College of Natural Resources Building
 Phone: 715-346-4617
 E-mail: cnr@uwsp.edu

In the College of Natural Resources you may earn the Master of Science in Natural Resources in subject areas such as forestry, forestry-recreation, urban forestry, wildlife, fisheries, limnology, resource management, extension programming, environmental education, international resource management, land use planning, soil science, aquatic toxicology, groundwater, watershed management, and water chemistry.

In the graduate program you have an opportunity for advanced study, research, and involvement in natural resource-related professional activities. We have designed all our programs to meet your individual needs and interests.

Admission to the Program

Complete both an application to Graduate Study and an application for the College of Natural Resources program and submit two letters of recommendation. The Graduate Record Examination is required. You also must have a 3.00 grade point average during your last two years as an undergraduate.

You do not need an undergraduate major in one of the natural resource specialties. However, you may have to take additional courses to make up deficiencies in your

undergraduate curriculum. If you have an undergraduate major in social sciences or humanities, you have more deficiencies than someone with a major in the sciences.

Graduate faculty in your area of interest admit you to the program. An adviser will be assigned to you when you are admitted.

The Program

1. You must earn at least 30 credits in graduate courses. At least 15 credits must be in courses numbered 700 and above.
2. You must take courses in at least four disciplines (e.g., forestry, wildlife, biology, and education).
3. Your graduate committee must consist of at least three members of the graduate faculty who represent at least two disciplines.
4. You must enroll for at least 3 thesis or independent study credits during each of your first four semesters.
5.
 - a. **Thesis option** (recommended for most students)
 - 1) Thesis: maximum of 6 credits count toward your 30 credit requirement; and
 - 2) Seminar: maximum of 4 credits in Natural Resources 794 and 795 count toward your 30 credit requirement.
 - b. **Nonthesis option** (available only with the approval of your graduate committee and adviser)
 - 1) Independent study, 3 credits: (library research, management plan, etc.); and
 - 2) Seminar: maximum of 4 credits of Natural Resources 794 and 795 count toward your 30 credit requirement.
 - c. **Extended MS In Natural Resources/ Environmental Education for Elementary and Secondary Teachers.** This program is open to licensed, continuing teachers who wish to develop their skills and expertise in natural resources, environmental education, research, methodology, and leadership. Your adviser will be determined based on the grade level you teach and your professional interests.
 - 1) **Project option:** 30 credits and a project (report, articles, presentations, and/or activities) related to your Program of Study and professional situation. May include 3 credits of independent study (library and local research, management plan, etc.)
 - 2) **Nonproject option:** 36 credits and a comprehensive examination on coursework. Check with the Wisconsin Center for Environmental Education for details on course and option requirements, 715-346-4973.
6. Enroll in Natural Resources 794 every semester that you are not enrolled in Natural Resources 791 or 795. You may not substitute Natural Resources 791 for the seminar requirements.
7. Enroll in Natural Resources 796 or 799 each semester you are enrolled as a full-time student.

Culminating Experience

You must take a comprehensive final oral examination conducted by your graduate committee which includes questions on your thesis or seminar paper and on coursework.

Faculty and Staff

This listing includes faculty, academic staff, classified staff, and limited term and project employees. An asterisk (*) following the name indicates a part-time assignment.

Appointments for summer, less than one semester, less than 6 credits, or less than 20 hours a week are not listed. The date indicates the beginning of service at the UWSP.

HESA = Health, Exercise Science, and Athletics
 HPHD = Health Promotion and Human Development
 UW = University of Wisconsin
 (AG) = associate graduate faculty
 (G) = graduate faculty

R. Anne Abbott, Prof of HPHD, 1987. BS, East Tennessee State U; MS, Florida State U; PhD, U of Pittsburgh. (G)

James Adamski, Ship/Mail Clerk 2.

Debra Aebly*, Lect in Educational Support Prog and Multicultural Affairs, B.S., M.A., UW-Stevens Point, 1999. BS, MA, UW-Stevens Point.

Thomas J. Ahlers, Painter in Residential Living, 1999.

Terry L. Alttama*, Lect in HPHD, Employee Wellness Coord, 1993. BS, UW-La Crosse; MPH, U of Michigan.

Rosario Alemparte, Assoc Student Serv Spec in Multicultural Affairs, 2000. BA, UW-Stevens Point.

Calvin Young Allen, Prof of Communication, 1969. BA, U of Evansville; MA, Ohio U. (G)

Gall M. Allen, Library Serv Asst Adv, Instructional Materials Ctr Circulation Supvr, 1975. BA, UW-Oshkosh.

Stacey Allen, Network Support Tech-Entry in the College of Natural Resources, 2001.

Kama N. Almasi, Asst Prof of Biology, 2002. BA Connecticut College; PhD, U of California-Davis. (G)

Cristina Altobelli, Prog Asst 2 in UWSP Extension.

Michael Amundson, Electronics Tech in Biology and College of Natural Resources, 1975. AA, Wis Indianhead Technical College.

Margaret N. Anderson, Teacher, Univ Child Learning and Care Ctr, 1982. BS, UW-Stevens Point.

Marty Anderson, Custodian 2 in Residential Living.

Debra Anderson, Prog Asst 3, Building Services Coord in Residential Living.

Eric M. Anderson, Prof of Wildlife, 1990. BS, Michigan State U; MS, PhD, Colorado State U. (G)

Jennifer Anderson*, Admissions Counselor, 2000. BA, UW-Stevens Point.

Katherine J. Anderson, Asst Prof in the Univ Library, 1985. BA, MA, UW-Stevens Point; MSLS, UW-Madison.

Martha L. Anderson, Sr Lect in Mathematics and Computing, 1987. BS, UW-Oshkosh; MA, U of Kansas.

Colleen Andrews, Sr Info Processing Consult in Info Tech, Student Computer Labs/ResNet Mgr, 1986. BA, Dominican College (UW-Parkside).

Colleen A. Angol, Library Serv Asst Adv, 1980. BS, UW-Stevens Point; MLIS, UW-Milwaukee.

Phillip Jack Annis, Lect in Resource Mgt, Solid Waste Ed Spec, 2000. BS, MBA, Wilmington College.

Deborah Anstett, Dir of Annual Giving in UWSP Foundation, 1999. BS, UW-Stevens Point; MS, UW-Madison.

Ernest Anthes, Sr Info Processing Consult, Network Mgr in Info Tech, 1989. BSEE, Marquette U.

Ella J. Armacanqui-Tipacti, Asst Prof of Spanish, 2002. BA, U Mayor de San Marcos, Lima, Peru; MA, PhD, UW-Madison. (G)

Arne J. Arneson, Assoc Prof, Dir of Univ Library, Dir of Teaching-Learning Resources, 1987. BM, MM, MA, UW-Madison. (G)

David L.G. Arnold, Asst Prof of English, 2000. BA, MA, PhD, U of California-Riverside. (G)

Nicole Garrity Arnold*, Assoc Lect in English, Instruc Spec in the Tutoring-Learning Center, 2002.

Fidells B. Asuquo, Custodian 2 Academic, 1984.

Darrell Austreng, Custodian 2 Academic, 1990.

Robert C. Badger, Prof of Chemistry, 1984. BS, Ohio U; PhD, U of Toledo. (G)

Kevin M. Bahr, Asst Prof of Business and Economics, 1999. BBA, MS, MA, PhD, UW-Milwaukee. (G)

Ronald Baker*, Sr Clinical Nurse Spec in Health Serv, 1995. BS, UW-Stevens Point; BSN, MSN, UW-Oshkosh.

Joseph Baldarotta, Head Hockey Coach, Assoc Lect in HESA, 1991. BS, UW-Stevens Point.

Mark G. Balhorn, Prof of English, 1992. BA, Michigan State U; MA, U of Kansas; PhD, UW-Madison. (G)

Larry F. Ball, Prof of Art History, 1991. BA, Oberlin College; PhD, U of Virginia. (G)

Sheila Bannister-Gross, Prog Asst 2 in UWSP Extension, 1987. BS, UW-Stevens Point.

Richard J. Barker, Assoc Prof of Spanish, 1988. BA, Hamilton College; MA, U of Iowa; PhD, U of Oregon. (G)

Terese Marie Barta, Assoc Prof of Biology, 1997. BS, PhD, UW-Madison; MS, U of California-Riverside. (G)

Barbara A. Bartkowiak, Prog Asst 2 in Music, 1981.

Gregory P. Bauer, Distinguished Psychologist, 1988. BS, UW-Stevens Point; MS, PhD, Oklahoma State U. (G)

Nancy E. Bayne, Assoc Vice Chancellor for Personnel and Budget, Prof of Psychology, 1975. BS, MS, PhD, Iowa State U of Science and Technology. (G)

Larry Beck, Dir of Facility Serv, 1990. BS, Purdue U; MBA, U of Chicago.

Kimberly Becken, Prog Asst 3 in Biology, 1990. BS, UW-Stevens Point.

David C. Becker, Instructional Spec in Suzuki for Violin/Viola, 1994. BM, UW-Madison; MM, The Juilliard School.

Pamela Becker, Academic Adviser; Disabilities Serv Adviser in the Student Academic Advising Ctr, 1983. BA, UW-Stevens Point.

Patti Clayton Becker, Assoc Prof in the Univ Library, Reference Coord, 1993. BS, UW-Stevens Point; MS, Columbia U; MA, Drew U; PhD, UW-Madison.

John Bedard, Custodian 2 Academic, 1995.

Margaret Beeber, Sr Advising Coord in the School of Education, 1989. BS, UW-Stevens Point.

Robert B. Beeken, Prof and Chair of Physics/Astronomy, 1980. BA, Western State College of Colorado; MS, Ohio U; PhD, U of Iowa. (G)

Sue Beeken, Financial Spec 2 in the University Center, 1998. BS, Western State College of Colorado.

Richard H. Behm, Prof of English, 1976. BA, U of Saint Thomas; MFA, PhD, Bowling Green State U. (G)

Robert A. Bell, Prof of Biology and Water Resources, Chair of Biology, 1993. BA, Drake U; MS, Illinois State U; PhD, Arizona State U. (G)

Holly L. Bembenek, Dir of Conference and Reservations, 1976. BS, BA, UW-Stevens Point.

Debra Bemowski, Financial Spec 1 in the Bursar's Office.

Ismael (Roy) Benavides, Custodian 2 Academic, 1971.

Barb Bengsch*, Financial Spec 2 in Accounts Receivable, 1982.

John J. (Jack) Bennett Jr., Head Basketball Coach and Lect in HESA, 1996. BA, Ripon College; MEPP, UW-Stevens Point.

Julle Benson, Prog Asst 2, Records Spec in Registration and Records, 1986. BS, UW-Stevens Point.

Daniel Berger, Info Systems Tech Serv Sr, Server Admin in Info Tech, 1994. BS, UW-Stevens Point.

Stacey J. Berk, Asst Prof of Music-Oboe, 2002. BA Western Illinois U; MM, MM, U of Illinois at Urbana-Champaign.

John I. Betinis, Univ Physician and Assoc Dir of Health Serv; Adjunct Prof of HPHD, 1977. BA, MD, U of Southern California; MPH, U of California, Berkeley. (G)

Cheryl Bever, Prog Asst 1 in Alumni and Univ Relations, 2002.

Patrick D. Beyer, Major US Army, Asst Prof of Military Science, 2000. BS, Stephen F Austin State U.

Michael Blalas*, Prog Asst 2 in UWSP Extension.

Karyn L. Blasca, Assoc Prof of Paper Science, 1989. BS, U of California, Los Angeles; MS, PhD, Institute of Paper Chemistry. (G)

Paul J. Bliersack, Craftworker Supvr in Facility Serv, 1984.

John J. Blirrenkott, Asst to the Vice Chancellor for Student Affairs, 1976. BS, UW-Stevens Point; MBA, UW-Oshkosh.

Pat Birrenkott*, Student Status Examimer in Registration and Records, 1994.

E. Sherwood Bishop, Prof of Sociology, 1972. BA, Lakeland College; MA, UW-Milwaukee; PhD, Florida State U. (G)

Steven A. Bjella, Prof of Music-Violin, 1991. BM, MA, U of Iowa. (G)

- Diana K. Black**, Asst Prof of Art and Design, 2002. BFA UW-Milwaukee, MA, MFA, UW-Madison.
- Joyce A. Blader**, Security Officer 4, Crime Prevention Officer, 1977. BS, UW-Stevens Point.
- John C. Blakeman**, Asst Prof of Political Science, 2003.
- Patricia Ann Bloom**, Sr Lect in English, 1968. BA, MA, Ohio U.
- Thomas K. Bloom**, Assoc Prof of English, 1968. AB, MA, PhD, Ohio U. (G)
- Jennifer Blum**, Interim Dir of Alumni and University Relations, 2000. BS, UW-Stevens Point.
- Julie Bodzislav**, Prog Asst 4, Data Mgr for Dean of the College of Professional Studies, 1965.
- Alan G. Boelk**, Head Men's and Women's Swimming Coach, Assoc Lect in HESA, 1997.
- Amy Zilmen Boelk***, Asst Prof of Sociology, 2000. BSW, UW-Eau Claire, MSSW, UW-Madison. (G)
- Penny L. Bolleau**, Instr of Education, 2002. BS, UW-Green Bay, MAE, Marian College. (AG)
- Judith W. Bond**, Assoc Prof of Music, Coord of Music Ed, 1994. BA, Grinnell College; MA, PhD, U of Minnesota. (G)
- N. Al Bond**, Info Processing Consult, College Tech Support Spec in the College of Letters and Science, 1998. BS, West Virginia U; MS, Southern Illinois U at Carbondale.
- Ginny Bondeson**, Instr in English as a Second Language Prog.
- Stephen R. Bondeson**, Prof of Chemistry, 1980. BS, UW-Stevens Point; PhD, Duke U. (G)
- Barbara J. Borski**, Prog Asst 2 for Conservatory for Creative Expression in UWSP Extension, 1966.
- Janis J. Borski**, Prog Asst 3 in Equity and Affirmative Action, 1972.
- Glenn R. Bowles Jr**, Asst Prof of Natural Resources, 2002. BS, U of Miami; MS Iowa State U; PhD, U of Michigan. (G)
- Mary R. Bowman**, Asst Prof of English, 1998. BA, College of William and Mary; MA, PhD, Duke U. (G)
- Amy Jo Boyd***, Licensed Practical Nurse 2 in Health Serv, 1997.
- Michael Bozek**, Unit Leader, Wis Cooperative Fishery Research Unit, 1994. BS, UW-Stevens Point; MS, U of Nevada-Las Vegas; PhD, U of Wyoming (G)
- Peter Brandl**, Painter, 1991.
- Thomas Brandl**, Painter, 1996.
- Daniel Breining**, Asst Prof of Spanish, 1999. BA, UW-Stevens Point; MA, U of New Mexico; PhD, UW-Madison. (G)
- Jutta Brendel***, Instr in English as a Second Language Prog, 1995.
- Kim Brenegan***, Outreach Prog Mgr in UWSP Extension, 1997. BS, MA, UW-Stevens Point.
- Denise K. Brennecke***, Assoc Lect in HPHD, 2002. BS, U of Iowa.
- Kathy Breseman**, DAC, Admin Personnel Tech in Military Science.
- Susan A. Brewer**, Prof of History, 1990. BA, Allegheny College; MSC, London School of Economics and Political Science; PhD, Cornell U. (G)
- Chris Brindley**, Building and Grounds Superintendent 3, 1998. BS, UW-Stevens Point.
- Dilly Britz**, Custodian 2 in Residential Living, 2002.
- Bryan Brophy-Baermann**, Asst Prof of Political Science; Assoc Lect in Communication, 1997. BA, PhD, U of Iowa. (G)
- Michelle Brophy-Baermann**, Asst Prof of Political Science; Assoc Lect in Communication, 1997. BA, PhD, U of Iowa. (G)
- W. Thomas Brown***, Assoc Lect in Interior Architecture, 1999. BArch, Catholic U of America.
- Bryant Browne**, Assoc Prof of Soils/Water Resources, 1993. BA, Boston College; BS, U of Massachusetts; MS, U of California-Berkeley; PhD, Syracuse U. (G)
- Mark Brueggeman***, Sr Lect in Art and Design, 2002.
- James G. Brummer**, Prof of Chemistry, 1985. BS, U of California, Davis; MS, U of Montana; PhD, Washington State U.
- Dale Brunl**, Maintenance Supvr 3, 1990.
- James J. Buchholz Jr**, Asst Dir of Schmeckle Reserve, 2002. BS, UW-Stevens Point.
- Mathew Buchman**, Asst Prof of Music, 1996. BM, Lawrence U, MM, U of Michigan-Ann Arbor. (AG)
- Joyce Bulgrin***, Sr Lect in Clinical Lab Science, 1990. BS, UW-Eau Claire; MSA, Central Michigan U.
- Roger A. Bullis**, Prof of Mathematics and Computing, 1971. BA, MA, PhD, UW-Madison. (G)
- Thomas A. Burkart**, Shipping and Mail Clerk 3. AD, Mid-State Technical College, 1987.
- Jane A. Burroughs**, Prog Asst 2, Office Mgr in Political Science, 1966.
- Christina M. Burton**, Asst Prof in Interior Architecture, 2001. BS, MFA, Northern Illinois U. (G)
- Barbara Y. Butler**, Assoc Prof of Anthropology, 1992. BA, Mount Holyoke College; MSSW, UW-Madison; PhD, U of Rochester. (G)
- Sharon Buzza**, Prog Asst 3 in National Environ Ed Advancement Project.
- Timothy P. Byers**, Outreach Prog Mgr I in UWSP Extension and Wis Ctr for Environ Ed; 1996. BS, MS, UW-Stevens Point.
- Diane Canfield Bywaters**, Prof of Art, Dir of Grant Support Serv, 1987. BFA, U of Kansas; MFA, Washington U, St. Louis. (G)
- Michael F. Calro**, Lect in Political Science, 2000. BA, State U of New York College at Geneseo; MA, PhD, U of Virginia.
- James Lewis Canfield**, Prof of Political Science, 1969. AB, Albion College; MA, PhD, U of Michigan, Ann Arbor. (G)
- Diane A. Caporale-Hartleb**, Assoc Prof of Biology and Wildlife, 1999. BA, U of Vermont; MAT, PhD, U of New Hampshire. (G)
- Stanley L. Carlson**, Prof of Mathematics, 1965. BS, UW-River Falls; MA, U of Northern Iowa; EdD, U of Northern Colorado. (G)
- Ginny Carlton***, Assoc Admin Spec for the Wis Environ Ed Board in the Wis Ctr for Environ Ed, 1993. BS, State U of New York College of Environ Science and Forestry; MS, UW-Stevens Point.
- Patricia Caro**, Prof of Education, 1990. BEd, MEd, PhD, McGill U (Montreal); EdS, U of Virginia. (G)
- James K. Carter**, Assoc Prof of Mathematics and Computing, 1985. BA, Ohio Northern U; MBA, U of Toledo.
- Alfredo Casas**, Motor Vehicle Operator Light in Facility Serv for Recycling, 1997.
- Sean Casey**, Facility Repair Worker 2.
- Nina Cass**, Clinical Asst Prof of Communicative Disorders, 2001. BS, MS, UW-Stevens Point.
- Matthew Catalano**, Research Scientist in Wis Coop Fisheries Research Unit, 2002.
- Paul W. Cauffield**, Asst Men's Hockey Coach, Assoc Lect in HESA, 2000. BA, UW-Whitewater.
- Julie A. Cayo**, Prog Asst 2, Asst to the Chair and Faculty in Business and Economics, 1984. BA, UW-Eau Claire.
- Randall J. Champeau**, Assoc Dean for CNR Outreach and Extension, Prof of Environ Ed and Resource Mgt, Dir of the Wis Ctr for Environ Ed, 1984. BS, MS, UW-Stevens Point; PhD, Michigan State U. (G)
- David K. Chan**, Asst Prof of Philosophy, 2001. BA, U of Melbourne (Australia); MA, National U of Singapore, PhD, Stanford U.
- Therese A. Chang**, Info Systems Res Support Tech Sr, System Administrator in General Ledger Accounting, 1986. BS, U of Hawaii.
- Theresa M.F. Chao**, Asst Prof in the Univ Library, Periodicals/Reference, 1971. BA, National Chengchi U; MLS, U of Oklahoma; MSM, Cardinal Stritch College.
- Thomas A. Charlesworth**, Media Spec/Photographer in News Services, 1999. BS, UW-Stevens Point.
- LeAnn M. L. Chase***, Assoc Lect in Education, 2000.
- Christine Chorney**, Internal Auditor for Business Affairs, 2001.
- Judy A. Chesebro**, Prog Asst 2 in Career Serv, 1968.
- David P. Chitharanjan**, Prof of Chemistry and Clinical Lab Science, 1968. BS (Hons), MSc, Annamalai U, Madras, India; PhD, Wayne State U. (G)
- Jasla Chitharanjan***, Asst Prof of HPHD, 1998. BS, MS, UW-Stevens Point; PhD, UW-Madison.
- Donna Christensen**, Clinical Asst Prof of Communicative Disorders, 1987. BS, UW-Madison; MA, Western Michigan U. (G)
- Dale N. Christiansen**, Custodian 2 Academic, 1980.
- Jackie Christianson**, Prog Asst 3 in UWSP Foundation, 2001.
- Jay Christianson**, Macintosh Support Spec, Multimedia Hardware Support Spec in Info Tech, 1994. BA, UW-Stevens Point.
- Darrell A. Christie**, Assoc Prof of Economics, 1964. BS, Jamestown College; MS, U of Illinois at Urbana-Champaign.
- Dennis D. Church**, Plumber for Residential Living, 1991.
- Marie Cincera**, Prog Asst 3; Head Cashier in Univ Bookstore, 1969.
- Karen R. Cisewski**, Prog Asst 2, Dept Secretary in Mathematics and Computing, 1976.
- Kenneth R. Cisewski**, Custodian 2 Academic, 1979.
- Sarah J. (Sally) Clanton**, Dir of News Services, 1977. BS, MA, UW-Stevens Point.
- Bonnie Clark***, Financial Spec Supvr 3 in the College of Natural Resources, 1969.

192 Faculty and Staff

- Charles E. Clark**, Exec Asst to the Chancellor and the Provost, 1993. BA, Moorhead State U; MA, U of Kansas; PhD, U of Illinois at Urbana-Champaign.
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 Thomas Detwyler, 1981-2001
 Winthrop Difford, 1968-1987
 Orthula C. Doescher, 1964-1982
 Ruth E. Dorgan, 1962-2000
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 James Dunigan, 1970-2001
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