
University of Wisconsin- Stevens Point Undergraduate and Graduate Catalog 2009-2011

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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 advisor regularly during your college career. You may also check the catalog web site: www.uwsp.edu/news/uwspcatalog.

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Libby Raymond, 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
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-Hearing Association
Commission on Accreditation of
Athletic Training Education
Commission on Accreditation for
Dietetics Education of the American Dietetic Association
Council for Interior Design Accreditation
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
National Wellness Institute
Society of American Foresters

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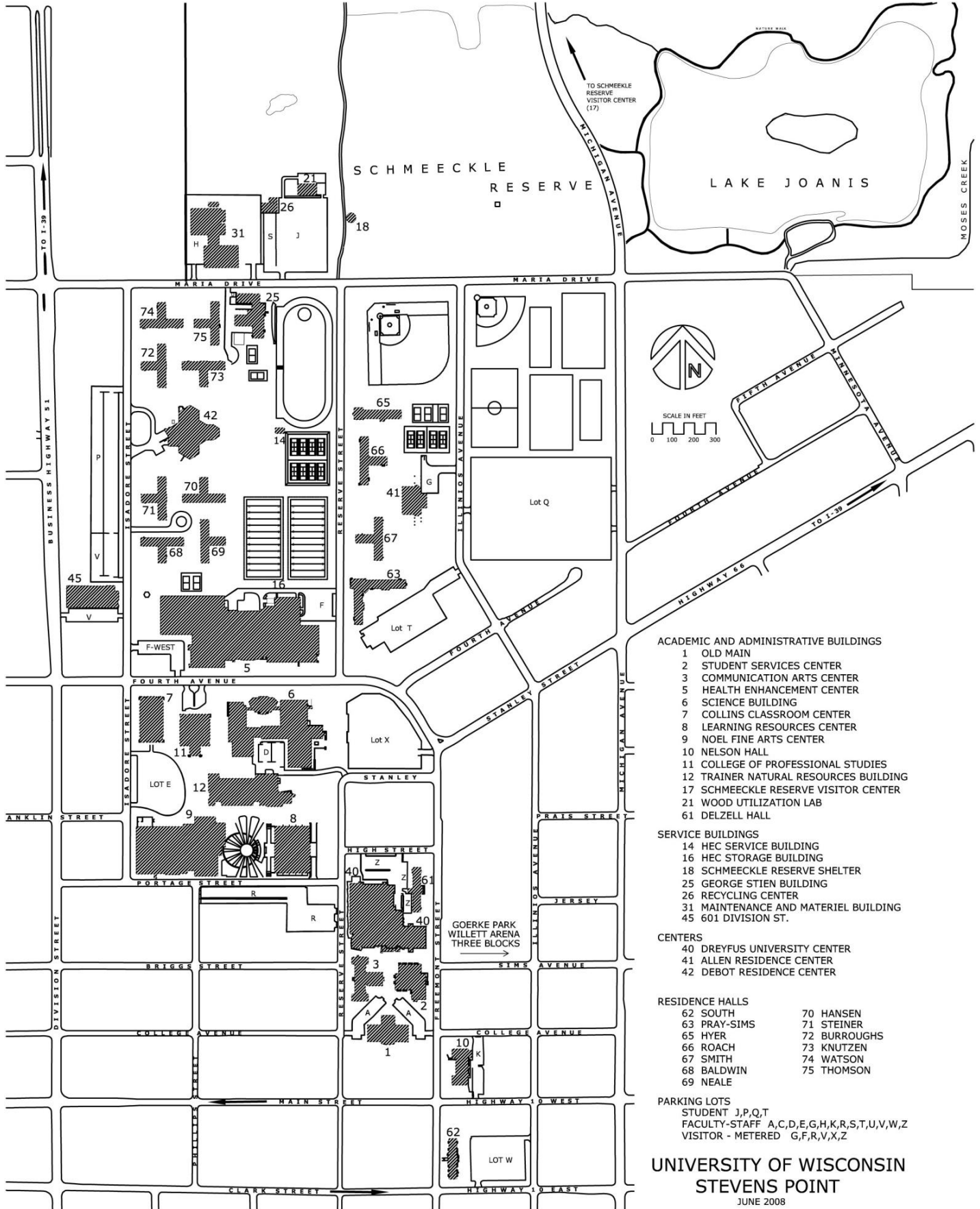
Table of Contents

ii	Accreditation
iii	Administration
iv	Table of Contents
v	Calendar
vi	Campus Map
1	Introduction
3	Admissions
6	Finances
11	Majors, Minors, etc.
13	General Degree Requirements
21	Associate Degree
23	More Academic Information
36	College of Fine Arts and Communication
37	College of Letters and Science
39	College of Natural Resources
41	College of Professional Studies
42	Courses of Instruction
176	Graduate Study
198	Faculty and Staff
212	Emeritus Faculty
213	University Associates
217	Index

Calendar

2009-10	2010-11	First Semester
Sep 2	Sep 2	Classes begin
Nov 25, 6pm	Nov 24, 6 pm	Tksjiv recess begins
Nov 30	Nov 29	Classes resume
Dec 11	Dec 15	Last day of classes
Dec 12	Dec 18	Reading day
Dec 19	Dec 18	Commencement
Dec 14-18	Dec 16-22	Final exams
2009-10	2010-11	Winterim
Jan 5	Jan 4	Winterim begins
Jan 21	Jan 20	Winterim ends
Jan 18	Jan 17	Holiday
		Second Semester
Jan 25	Jan 24	Classes begin
Mar 19, 6pm	Mar 19, 6 pm	Spring recess begins
Mar 29	Mar 28	Classes resume
May 14	May 13	Last day of classes
May 16	May 14	Reading day
May 17-21	May 16-20	Final exams
May 15	May 21	Commencement
2010	2011	Summer Session
Jun 1	May 31	Three-week session begins
Jun 21	Jun 20	Eight-week session begins
Jul 5	Jul 4	Holiday
Aug 11	Aug 10	Last day of classes
Aug 12-13	Aug 11-12	Final exams

VI Campus Map



- ACADEMIC AND ADMINISTRATIVE BUILDINGS**
- 1 OLD MAIN
 - 2 STUDENT SERVICES CENTER
 - 3 COMMUNICATION ARTS CENTER
 - 5 HEALTH ENHANCEMENT CENTER
 - 6 SCIENCE BUILDING
 - 7 COLLINS CLASSROOM CENTER
 - 8 LEARNING RESOURCES CENTER
 - 9 NOEL FINE ARTS CENTER
 - 10 NELSON HALL
 - 11 COLLEGE OF PROFESSIONAL STUDIES
 - 12 TRAINER NATURAL RESOURCES BUILDING
 - 17 SCHMEECKLE RESERVE VISITOR CENTER
 - 21 WOOD UTILIZATION LAB
 - 61 DELZELL HALL
- SERVICE BUILDINGS**
- 14 HEC SERVICE BUILDING
 - 16 HEC STORAGE BUILDING
 - 18 SCHMEECKLE RESERVE SHELTER
 - 25 GEORGE STIEN BUILDING
 - 26 RECYCLING CENTER
 - 31 MAINTENANCE AND MATERIEL BUILDING
 - 45 601 DIVISION ST.
- CENTERS**
- 40 DREYFUS UNIVERSITY CENTER
 - 41 ALLEN RESIDENCE CENTER
 - 42 DEBOT RESIDENCE CENTER
- RESIDENCE HALLS**
- | | |
|--------------|--------------|
| 62 SOUTH | 70 HANSEN |
| 63 PRAY-SIMS | 71 STEINER |
| 65 HYER | 72 BURROUGHS |
| 66 ROACH | 73 KNUTZEN |
| 67 SMITH | 74 WATSON |
| 68 BALDWIN | 75 THOMSON |
| 69 NEALE | |
- PARKING LOTS**
- STUDENT J,P,Q,T
 FACULTY-STAFF A,C,D,E,G,H,K,R,S,T,U,V,W,Z
 VISITOR - METERED G,F,R,V,X,Z

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 8,700 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 Schmeekle 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.

UW-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. www.uwsp.edu/equity

Disability Services

If you have a disability, you may obtain information on program access to all UWSP 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 hearing impaired; or www.uwsp.edu/special/disability. You may also call on them for referral information regarding counseling, housing, academic advising, and tutoring. We urge you to contact them 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 inter-institutional 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.
- 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.

2 Introduction

- 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 sciences, 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, county 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 67,000. 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 numerous baseball and softball facilities including 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. Other major employers include Ministry Health Care (including St. Michael's Hospital and Ministry Medical Group), Copps Corp, Stevens Point Public Schools, UW-Stevens Point, New Page, Del Monte, McCain Foods USA, Lands' End, Portage County, The Noel Group, and Worzalla Publishing.

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.

Admissions

Admission Application Procedure

You may apply for admission to UW-Stevens Point by submitting the UW System electronic application (<https://apply.wisconsin.edu>) or the paper application form available through your high school guidance office or the UWSP Admissions Office.

Office of Admissions
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/

New Freshman Admission Policy

Admission to the University of Wisconsin-Stevens Point is competitive. All applications are reviewed on an individual basis with both academic and non-academic factors considered. The university will give strong consideration to applicants with successful academic backgrounds who have demonstrated achievement both inside and outside the classroom. The potential to contribute to a diverse educational community is also considered.

NOTE: Admission is subject to program capacity limits and institutional enrollment limits.

A. You must graduate from a recognized high school or the equivalent.

1. A recognized high school is one which either (a) is accredited by a regional accrediting association or state university or (b) is recognized or accredited by a state department of public instruction or equivalent.
2. An applicant who has not graduated from a recognized high school must provide evidence of ability to begin college work. Such evidence may include, but is not limited to: transcripts verifying completion of a home-schooled educational program, GED/HSED test scores, ACT/SAT scores, and/or transcripts of coursework completed in high school. Additional documents, testing, and a personal interview may be required.

B. Academic Unit Requirements

	Minimum Required	Recommended
English	4 units	4 units
Mathematics	3 units	4 units
Social Science	3 units	4 units
Natural Science	3 units	4 units
Foreign Language	0 units	2-4 units
Electives*	4 units	4 units

*At least two of the elective credits must be from foreign language, fine arts, computer science, English, math, social science, or natural science.

Acceptable natural science courses:

The following courses offered through the high school science department are acceptable: 9th grade physical or general science, biology, advanced biology, chemistry, advanced chemistry, physics, advanced physics, astronomy, earth science, anatomy and physiology, marine biology, AP science courses, biotechnology, geology, physical geography, genetics, microbiology, meteorology, and environmental science courses for which biology is a prerequisite. *One unit may be from agriculture science courses that are approved by DPI to meet the high school science graduation requirement. One unit may be from Project Lead the Way (PLTW) courses that are approved by DPI to meet the high school science graduation requirement.*

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, keyboarding, cooperative education, most religion, English as a second language, remedial (in all areas of study) and exceptional education courses.

C. Academic Criteria

1. Class rank
2. Test scores: ACT or SAT (UWSP does not require the ACT Writing Test.)
3. Cumulative high school grade point average (GPA)
4. Rigor of high school courses
5. Trend in grades: the pattern of grades including the pattern in academic courses

D. Non-academic Criteria

In addition to academic achievement, the following non-academic factors will be considered: demonstrated leadership; involvement through work experience, extracurricular activities, and volunteerism; personal characteristics and accomplishments including honors, awards, special talents and abilities, and personal qualities; diversity in background and experience; and life circumstances.

While non-academic qualifications are considered in the comprehensive review process, they will not necessarily make an applicant with a weak academic background a strong candidate for admission.

Admission requirements and criteria are subject to change.

Orientation for New Freshmen

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

We encourage your parents to attend Orientation with you. Your parents hear presentations by UW-Stevens Point faculty and staff on such topics as student health programs, health insurance, financial aid opportunities, and housing and dining programs. You and your parents are invited to stay in a residence hall and eat at our dining facilities. For more information, write or visit the Admissions Office, Room 102, Student Services Center, or call 715-346-4164.

<http://www.uwsp.edu/admissions/orientation/>

If you are a nontraditional student, you may get additional information about orientation and registration by writing or visiting the Multicultural Affairs office, Room 209, Student Services Center, or calling 715-346-3574. www.uwsp.edu/multicultural/

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

4 Admissions

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 and an official high school transcript. Additional information is available at: www.uwsp.edu/admissions/YOPapp.aspx. You may also contact your high school counselor or the UWSP Admissions Office for more information.

Returning UWSP Students

If you have been away from campus for one or more semesters, complete the UW System admission application form (see **Admission Application Procedure** in the beginning of this section) 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 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 please note 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 appeal letter to Director of Admissions with a request that your appeal be forwarded to the Chancellor's Appeals Committee.

UW Central Wisconsin Connection

If you are admitted to UW-Marathon County or UW-Marshfield/Wood County, you also may be eligible for admission to UW-Stevens Point under a dual admission agreement called the UW Central Wisconsin Connection. While you complete a minimum of 42 credits at your home campus, you will also have the option to take UWSP courses and receive access to programs and services at UWSP including academic and career advising, an e-mail account, library privileges, and more. Dual enrollment will provide you with opportunities for involvement in UWSP campus life, as well as services to ensure your smooth transfer to UWSP. Contact the UWSP Admissions Office or

your UW-Marathon County or UW-Marshfield/Wood County advisor for more information.

Admission of Transfer Students

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

You are normally eligible for admission unless you have 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 do have 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 regarding admission eligibility and enrollment, please contact the Admissions Office, Room 102, Student Services Center, 715-346-2441. www.uwsp.edu/admissions/

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 advisor and register for classes. We will send you information about 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 college level courses at a regionally accredited college or university will transfer to UWSP if you received grades of D or higher.
- 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. Exceptions can be granted by the appropriate dean. There is no limit on credits accepted from four year universities.
- If you earned an approved associate degree from another UW System institution, you will automatically have met the UW-Stevens Point general degree breadth requirements in natural science, history, humanities, social science, environmental literacy, non-Western culture and, (depending on when the degree was earned) minority studies. You must still meet UW-Stevens Point skills requirements in mathematics, foreign language, communication (public speaking), freshman English, writing emphasis and wellness, unless you took appropriate coursework to meet these requirements at the previous institution. You may also still need to complete certain general degree requirement courses if required within your specific major or program. 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.

- If your previous institution awarded “split” grades (AB, BC, etc.), those grades will appear on your UW-Stevens Point degree progress report as follows: AB = B+, BC = C+, CD = D+.
- 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. Exceptions can be granted by the appropriate dean. 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.

Access TIS at www.uwsa.edu/tis/

Using TIS you can determine how your UW College courses will transfer and which UWSP general degree requirements they will fulfill.

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, Chippewa Valley Technical College, Western 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 30 credits of approved WTCS general education courses in communication, social sciences, behavioral sciences, mathematics and natural science. You also may be eligible to transfer certain technical support or occupational credits if they have been approved for transfer by our academic departments or 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.
- You also 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.

We recommend that you consult the UW System’s online Transfer Information System (www.uwsa.edu/tis/) for information on specific WTCS/UWSP course equivalencies and articulation agreements, or contact the Admissions Office, Room 102 Student Services Center; 715-346-2441. www.uwsp.edu/admissions/

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, submit:
 - 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 2003.)
 - 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

In addition to traditional classroom instruction, there are a number of opportunities available at UWSP for earning credit or meeting course requirements. 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 applicable life experiences, you are encouraged to pursue one or more of the following opportunities.

6 Finances

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 counselor or our Admissions Office, Room 102, Student Services Center, 715-346-2441, or see <http://www.uwsp.edu/admissions/apexampolicy.aspx>

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. <http://www.uwsp.edu/admissions/clep.aspx>

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 and/or receive credit-by-exam for any General Education (GDR) course at UWSP, except for Writing Emphasis courses.

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.

Finances

Financial Aid Office

Paul Watson, Interim Director
Room 106, Student Services Center
Phone: 715-346-4771
Email: finaid@uwsp.edu
Web: www.uwsp.edu/finance

How to Apply for Financial Aid

Apply early: Applications received after May 15 may be awarded less aid as funding becomes depleted.

Complete the **FAFSA (Free Application for Federal Student Aid)** using completed Federal tax returns.

- Apply online at www.fafsa.ed.gov. If you previously completed a FAFSA using the government's Internet site, you must reapply using the same method (requires the use of a personal identification number – PIN).
- Or request a paper FAFSA by calling the Federal Student Aid Information Center at 1-800-433-3243. If you are hearing impaired, please contact the TTY line at 1-800-730-8913.

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 or teacher certification program,
- Not be in default on a student loan,

- Not have been convicted of selling or possessing illegal drugs while receiving federal student aid,
- Not owe a repayment on a student grant, and
- Be enrolled at least half time (except for Pell Grant recipients).

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, and 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 Waivers, Need-Based

Academic Competitiveness Grant: Awarded based on high school courses or AP credits. Must be Pell Grant recipients enrolled full time as a first or second year student. Second year students must have 3.0 GPA at the conclusion of their first year.

Indian Student Assistance: State awards up to \$1,100, that is usually matched with a tribal grant, to Wisconsin Indian students who show financial need.

Lawton Retention Grant: Awarded to Wisconsin and Minnesota undergraduate diversity students with sophomore standing and a minimum 2.00 GPA.

National Smart Grant: For third or fourth year students majoring in mathematics, science, technology, engineering, or a critical foreign language. Awarded to Pell Grant recipients enrolled full time and maintaining a 3.0 GPA.

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.

Pell Grant: Awards up to \$4,731 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 \$2,980 per academic year as determined by the Wisconsin Higher Educational Aids Board.

Wisconsin Talent Incentive Program: Awards between \$1,000-\$1,800 to disadvantaged Wisconsin residents.

Loans, Need-Based

Perkins Loan: Loans up to \$2,000 annually, with a maximum total of \$27,500 for all undergraduate years. The graduate student cumulative maximum is \$30,000 which includes any amount borrowed for undergraduate study.

Subsidized Stafford Loan: \$3,500 the first year, \$4,500 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 need-based Subsidized Stafford loan (except that the limits are higher for independent students: + \$6,000 for freshmen and sophomores; + \$7,000 for juniors and seniors; + \$12,000 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.

Alternative Loans: Loans from commercial lenders to help meet unmet financial need or cover assessed family contribution. These are last resort loans, which should only be considered if needed after receiving regular financial assistance.

Jobs for Students

Need a job? The Student Involvement and Employment Office (SIEO), located at 011 Dreyfus University Center starting spring semester 07-08, 715-346-2174, works to connect students and employers. The SIEO lists jobs online at www.uwsp.edu/centers/sieo are 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/centers/sieo.
- **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.
- **Honors Intern 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.
- See the UWSP Foundation Web page www.uwsp.edu/foundation/scholarships/shtm for information about general scholarships for sophomore, junior, senior, and nontraditional students.

Military Scholarships

Army ROTC Scholarship: Army ROTC offers you several opportunities for scholarships at UW-Stevens Point. The scholarships pay full tuition and major fees, \$900 per year

8 Finances

book allowance (tax free), and \$300-500 (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 \$450-500 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 go to www.uwsp.edu/rotc.

Simultaneous Member Program (SMP): 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. In addition to the monthly allowance, SMP cadets may be eligible for MGIB “kickers” and increases in drill pay as additional financial incentives. For more information contact the Military Science Department, Room 204 Student Services Center, phone 715-346-3821, e-mail rotc@uwsp.edu, or go to 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 eight GDR elective credits, as well as an opportunity to earn a 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 go to 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. For full consideration, send nominations and applications each year by January 1 to the University Special Fee Remission Committee, Room 134, Old Main Building.

Return to Wisconsin Tuition Discount

Nonresident children and grandchildren of UWSP alumni may be eligible for a discount of 25 percent off the regular nonresident tuition rate. Contact the Admissions Office, 715-346-2441, for more information.

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 we *estimate* you will pay per semester when you enroll for the 2009-10 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.

Minnesota residents must have approval for reciprocity. Your high school counselor can give you information about how to apply or go to www.mheso.state.mn.us.

Credits	Wisconsin Residents		Minnesota Residents	
	U-grad Costs*	Grad Costs*	U-grad Costs*	Grad Costs*
1	\$ 294.42	\$ 433.14	\$ 317.87	\$ 455.44
2	576.24	857.68	627.14	902.28
3	860.07	1282.22	936.42	1349.12
4	1143.78	1706.76	1245.58	1795.96
5	1427.50	2131.30	1554.75	2242.80
6	1687.63	2531.74	1840.33	2665.54
7	1898.25	2883.08	2076.40	3039.18
8	2108.83	2234.42	2312.43	3412.82
9	2319.51	3585.77	2548.56	3786.47
10	2530.31	3585.77	2784.63	3786.47
11	2740.65	3585.77	3020.60	3786.47
12-18	2949.30	3585.77	3254.70	3786.47
19+	204.55 per credit		230.00 per credit	

Out-of-State (except Minn.)

Credits	U-grad Costs*	Grad Costs*
1	\$624.77	1063.84
2	1240.94	2119.08
3	1857.12	3174.32
4	2473.18	4229.56
5	3089.25	5284.80
6	3681.73	6315.94
7	4224.70	7297.98
8	4767.63	8280.02
9	5310.66	9262.07
10	5853.63	9262.07
11	6396.50	9262.07
12-18	6937.50	9262.07
19+	536.90 per credit	

*The total cost includes tuition (also called the incidental fee) and seven segregated fees: University Center fee for UWSP campus centers, student activity fee for recreational services, text rental fee (undergraduates only), student health fee for medical care, municipal service fee for various utilities, Health Enhancement Center fee, and United Council fee for student government. For a more complete breakdown, call the Accounts Receivable Office, Room 003, Student Services Center, 715-346-4796.

Tuition Surcharge

If you are a resident student working toward your first degree and accumulate 165 credits (or 30 credits more than required by your degree program, whichever is greater), you will be assessed a surcharge equal to 100% of the regular resident tuition on all credits beyond 165.

1. Only credits earned at UW-Stevens Point or transferred from a UW System or Wisconsin Technical College institution count toward the 165 credits.
2. Advanced placement (AP), credit-by-exam, retroactive credit, remedial credit, and other nontraditional credits do NOT count toward the 165 credits.
3. The surcharge begins in the term following the one in which you reach 165 credits.
4. To appeal, contact your dean's office or Registration and Records at 715-346-4301.

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 or your high school counselor 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 or to go www.mheso.state.mn.us.

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). A person who was a resident of this state at the time of entry into active duty, who is a resident of and living in this state at the time of registering at an institution, and who is a veteran, as defined in s.45.01(12), is entitled to the 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. Anybody 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:

1. **Full Payment Plan:** All students are required to pay a \$100 registration deposit prior to registration. Then, full payment must be received by the Bursar's Office by the first day of classes to avoid finance charges which will be assessed from the first day of each term.
2. **Partial Payment Plan:** The university offers a partial payment plan which provides for payments to be made in two equal installments following the initial \$100 registration deposit. The charges may include academic and segregated fees, room, board, special course fees and miscellaneous charges. You will be assessed a finance charge for each billing period in which you have not paid the balance in full by the billing due date.

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 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

10 Finances

.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 999 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 statement: For information only. Your \$100 registration deposit has already been received and there is no required payment due at this time. However, finance charges will be assessed on any unpaid balance as of the first day of each term.
2. Second statement: Created at the end of the second week of classes, this statement requires a minimum payment of 50% of the balance plus finance charges.
3. Third statement: Created during the sixth week of the semester, 100% of any remaining balance plus finance charges will be due.
4. Fourth statement: Pay any further charges plus all finance charges at about the tenth 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 also are unable to enroll for future courses under the partial payment plan until you have paid in full.

E-Billing

UWSP electronic billing is the official means of generating tuition bills for all students. You will receive a notice in your university e-mail account when your UWSP E-Bill is ready to be viewed online. A UWSP logon and password are required to access the billing statement which details the amount due (tuition, fees, housing, and other campus charges) and the payment due date. Paper billing statements are no longer sent to enrolled students.

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 can be found on the Accounts Receivable website (<http://www.uwsp.edu/admin/busaffairs/ar>), and then under "Tuition & Billing", choose "Electronic Billing."

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 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, 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 except for the 165+ credit tuition surcharge.

On-Campus Living (Room and Board)

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 2009, you will pay \$1700 each semester (\$1800/semester in renovated halls) for a double room and \$2410 each semester (\$2510/semester in renovated halls) for a single room in a residence hall.

As a hall resident, for a proposed cost of \$1138 per semester in 2009-2010, you may select a meal plan which provides 125 meals per semester plus 125 food dollars; 175 meals per semester plus 75 food dollars; 225 meals per semester plus 50 food dollars; or 275 meals per semester plus 25 food dollars.

Refunds: If you want to receive a refund of \$100 of your room prepayment on an academic year contract, request it before July 1. If you want to receive a refund of your room prepayment 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 prepayment by December 15 to receive refund in February.

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

If you withdraw from UWSP, you must also terminate your residence hall agreement. We prorate all room and board refunds 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 ■●

Adventure Education ●

American Studies ■ (Options) American Studies, Working in a Global Economy

Anthropology ●

Aquaculture/Fish Culture ●

Arabic

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 ■

Biochemistry ■

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)

Entrepreneurship; Finance, Insurance & Real Estate; Foreign Language: French/ German/ Spanish; Forest Recreation, International Business; Management; Marketing; Soil Science, Wood Products Industry

Captive Wildlife ● (also see *Wildlife Ecology*)

Chemistry ■●◆ (Option) Polymer

Chemistry, ACS certified ■ (Option) Polymer

Child and Family Studies ●

Chinese

Clinical Laboratory Science ■ (Options) Cytotechnology, Medical Technology, Histotechnology

Coaching ●◆

Communication ■● (Areas of Emphasis) Interpersonal and Organizational, Media Studies, Public Relations

Communicative Disorders ■◆

Comparative Literature ●

Computer Information Systems ■● (Options) Application Development and Support, IT Infrastructure

Conservation Biology ●

Dance (See *Theatre and Dance*)

Dietetics ■

Drama (see *Theatre and Dance*)

Earth Science ●◆

Economics ■●◆ (Options) Social Science, Business Economics

Education, Early Childhood ■◆

Education, Elementary ■◆

Education, Exceptional ■●◆

Education, Secondary Certifications ◆

English ■●◆

English as a Second Language ● (Also see *Teaching ESL*)

English as Second Language Program

English for Elementary Education ●◆

Environmental Communication ●

Environmental Educ for Elementary/Middle School ●◆

Environmental Education/Interpretation ● (Also see *Resource Management*)

Environmental Law/Enforcement ●

Environmental Studies ●

Ethnobotany ●

Family and Consumer Sciences ■◆ (Options) Teacher Education, Family Life Education

Fisheries and Water Resources ■ (Options) Fisheries, Watershed Management, Water Resources

Forest Recreation ●

Forestry ■● (Options) Administration and Utilization, Management, Forest Recreation, Urban, Ecosystem Restoration and Mgt

French ■●◆ (Concentration) Culture Studies

Geographic Information Systems and Spatial Analysis ●

Geography ■●◆ (Options) GIS and Cartography, Human Geography, Physical Environment, Urban Planning

Geology ●

Geoscience ■

German ■●◆ (Concentration) Culture Studies

Gerontology ●

Health Education ●◆

Health Promotion ■ (Wellness)

Health Science ■ (Options) Health Care Administration, Health Care Informatics, Pre-Occupational Therapy, Pre-Physical Therapy

History ■●◆ (Concentration) Race and Ethnicity

Hmong

Individually Planned Major ■

Instructional Resources

Interior Architecture ■

International Resource Management ●

International Studies ■●(Concentrations) African & Middle Eastern Studies; Asian Studies; Australian, New Zealand & SW Pacific Studies; European Studies; Latin American Studies; Russian/Eastern European Studies; Global Studies

Japanese

Land Use Planning ● (Also see *Resource Management*)

Mathematics ■●◆ (Area of Emphasis) Actuarial

Mathematics, Applied ●

Mathematics for Elementary Education ●◆

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 and Dance*)

Native American/Rural Social Work ●

Native American Studies ●

Natural Science ■◆ (Options) Earth, Life, Physical

Natural Science, Broad-field ●

Nursing (Degree through UW-Eau Claire in cooperation with St. Joseph's Hospital-Marshfield and UWSP)

Nutrition ●

12 Majors, Minors, etc.

Paper Science and Engineering ■

Peace Studies ●

Philosophy ■● (Concentrations) Religious Studies,
Environmental Ethics

Physical Education ■◆

Physical Education for Exceptional Individual ◆

Physics ■●◆ (Areas of Emphasis) Applied Electronics,
Applied Mechanics

Political Science ■●◆

Polish

Preprofessional (Areas of Emphasis) Chemical Engineering,
Chiropractic, Dental, Engineering, Law, Medical, Mortuary,
Nursing, Occupational Therapy, Optometry, Pharmacy,
Physical Therapy, Physician Assistant, Veterinary

Psychology ■●◆ (Concentration) Human Services

Public Administration and Policy Analysis ■●

Religious Studies ● (Also see *Philosophy*)

Resource Management ■●◆ (Options) Environmental
Education/ Interpretation, General, Land Use Planning,
Resource Management Law Enforcement, Resource
Management Policy, Youth Programming and Camp
Management

Russian

Small City Analysis ●

Social Science ■●

Social Science, Broad-field ■●◆

Social Science in Health ●

Sociology ■●◆ (Areas of Emphasis) Deviance/Social
Control, Family/Socialization, Community/Environment,
Social Work; (Concentrations) Adult Life and Aging, Applied
Sociology

Soil and Waste Resources ■● (Options) Soil and Land
Management, Soil Science, Waste Management

Spanish ■●◆ (Concentration) Culture Studies

Strength and Conditioning ●

Teaching English as a Second Language ●◆

Theatre and Dance (Options) Dance ■●, Drama ■●,
Musical Theatre ■

Undecided/Undeclared

Water Resources ● (Also see *Fisheries*)

Web and Digital Media Development ■●

Wellness (See *Health Promotion*)

Wildlife Ecology ■● (Options) Research and Management,
Information and Education

Women's Studies ●

Writing ●

Youth Programming and Camp Management ● (Also see
Resource 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, and 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 advisor for help in choosing your major. After choosing one, check with your advisor 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. For the most up-to-date list of general degree requirement offerings, check the online timetable on the Registration & Records homepage (<http://www.uwsp.edu/reg-rec/>) and then click on "Timetable." From there, click on "List of Courses by Term." 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 advisor will describe your college's policy on this. Your college may impose additional requirements.

Test-Out & Credit-by-Exam Policy

You may test-out and/or receive credit-by-exam for any General Education (GDR) course at UWSP, except for Writing Emphasis courses.

When you pass an 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. 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

14 General Degree Requirements (GDR)

GDR courses for which departments devise their own exams. This should be paid to the department administering the test upon application for the exam.

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 to measure 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 the course for which you should register. If more than one course is listed, consult an advisor, or check with the Student Academic Advising Center, Room 102, Student Services Center, for the most appropriate course for your major,.
- ◆ If you are a transfer student, go to the Admissions Office to determine the code number or course into which you place; 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 remedial courses until remedial requirements are 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, 119 ⁵ , 228, 355	Complete	Complete

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 Mathematical Sciences 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, 209, 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, advisors may allow you to take 119 and 120 concurrently.

Bachelor of Arts General Degree Requirements

1. **Verbal and Quantitative Skills.** 8-11 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. To see which courses are offered as Writing Emphasis for a particular semester, check the online timetable on the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and then click on "Timetable." From there, click on "List of Courses by Term." Then select a term and under "Type", select "GDR-Writing Emphasis."

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 or 105 or equivalent. 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, 115, 116.
Geography 100EL, 101, 350.
Geology 100, 104.
Physics 100EL 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, 270, 271, 370, 371, 372, 374, 375, 378, 380, 396; Arabic 101-102; Chinese 101, 102, 200, 201; Communication 364; English 281, 374; Geography 110, 113, 120, 300, 302, 325, 327; History 101, 102, 201, 204, 205, 206, 216, 217, 232, 233, 240, 241, 248, 249, 310, 313, 316, 317, 318, 322, 338, 348, 370, 371, 372, 373, 374, 392; Hmong 101, 102; Interior Architecture 150, 310; Japanese 101, 102, 211, 212, 313; Music 220; Philosophy 105, 230, 381; Political Science 160, 362, 371, 372, 375, 382; Religious Studies 100, 105, 107, 305, 316, 333, 340, 341; Russian 101, 102, 211, 215, 216, 315, 316; Sociology 343, 370; Spanish 483; Water 220.

Minority Studies. One course required. Anthropology 371; English 280, 282, 382, 386; History 284, 285, 288, 289, 290, 291, 292, 310; Interior Architecture 160; Music, 105, 305; Philosophy 381; Political Science 202, 315, 408, 414; Psychology 322; Religious Studies 311, 316; Sociology 101, 102, 270, 316; Spanish 480, 482; Women's Studies 105, 320.

A. **History.** 6 credits of a two-course sequence required. History 101-102NW, 176-177, 216-217NW, 232-233, 240-241, 248-249, 256-257, 284-285, 289-290, 372-373.

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, 270NW, 271NW, 282, 283, 397.
Communication 160, 171, 190, 273, 360, 361, 362, 363, 367.
Dance 352.

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

Music 100, 103, 105MNS, 220NW, 221, 300, 301, 305MNS, 307, 320, 323, 326, 329, 427.
Theatre 105, 329, 351, 352, 361, 362, 452, 490.
Web Digital Media Development 100

Humanities Area 2 Literature:

Comparative Literature 102.
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, 365, 366, 374NW, 378, 382MNS, 383, 386MNS(by subtitle), 395.

French 340.

German 340.

Spanish 340.

Humanities Area 3

Philosophy, religious studies, and political theory:

16 Bachelor of Arts General Degree Requirements

Philosophy 100, 101, 105NW, 121, 230NW, 270, 301, 302, 305, 306, 307, 315, 320, 325, 326, 327, 336, 380EL, 381NW/MNS.
Political Science 270, 391, 393, 394, 395.
Religious Studies 100NW, 101, 202, 105NW, 107NW, 301, 302, 303, 304, 311MNS, 316NW or MNS, 321, 330, 333NW, 340NW, 341NW, 342.

Humanities Area 4

Civilization, area studies, and interdisciplinary courses:

Foreign Language 381.
French 481.
German 381, 481.
History 322NW, 348NW, 367, 370NW, 396.
International Studies 381.
Peace Studies 200.
Spanish 481, 482MNS, 483NW.
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, 325NW, 327NW, 328, 366, 369, 373, 374.
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, 370NW.

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:

Arabic 101-102NW.
Chinese 101-102NW.
French 101-102.
German 101-102.
Hmong 101-102NW.
Japanese 101-102NW.
Polish 101-102.
Russian 101-102NW.
Spanish 101-102.

4. **Environmental Literacy.** 3 credits. Choose one:
Art 335.
Chemistry 100.
Clinical Lab Science 395.
English 392.
Food and Nutrition 357.
Forestry 361NW.
Geography 100, 329, 371.

History 204NW, 280, 304, 392NW. 366, 394.
Human Development 381, 386.
Interior Architecture 130, 315.
Natural Resources 150, 220NW, 324, 370, 395.
Paper Science 103.
Philosophy 380.
Physics 100.
Political Science 304, 305.
Psychology 321.
Safety and Health Protection 330.
Sociology 355, 360.
Water 220NW, 324.

5. **Wellness.** 3 credits required.
- A. Take 1 or 2 credits in **aerobics/activity** (AA) from the following:
Dance 103, 104, 105, 106, 114, 115, 203, 204, 205, 206, 212, 214, 215, 303, 304, 305, 306, 314.
Military Science 111, 121, 153, 154.
Physical Education 150.
Wellness 100 to 299. To see which courses are offered as A/A for a particular semester, check the online timetable on the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and then click on "Timetable." From there, click on "List of Courses by Term." Then select a term and under "Type", select "GDR-Wellness-AA."
- B. Take 1 or 2 credits in **health enhancement** (HE) from the following:
Food and Nutrition 151.
Health Education 140, 280, 390.
Health Promotion/Wellness 102, 103, 107, 110, 148, 206, 207, 208, 248, 299.
Psychology 255, 290.
Wellness 100 to 299. To see which courses are offered as HE for a particular semester, check the online timetable on the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and then click on "Timetable." From there, click on "List of Courses by Term." Then select a term and under "Type", select "GDR-Wellness-HE."
6. **Minimum Credits for Graduation.** To graduate, you must earn at least 120 credits, which include the general requirements for your degree and the requirements for at least one major. You may need to take some elective credits. Some majors may require 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 Application and Approval.** Apply online for graduation at <http://www.uwsp.edu/reg-rec/gradinfo.aspx> at least one full semester prior to the term in which you will complete your degree. 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 online timetable for the most up-to-date list of general degree requirement offerings on the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and then click on "Timetable." From there, click on "List of Courses by Term."

Bachelor of Science General Degree Requirements

1. **Verbal and Quantitative Skills.** 12-14 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. To see which courses are offered as Writing Emphasis for a particular semester, check the online timetable on the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and then click on "Timetable." From there, click on "List of Courses by Term." Then select a term and under "Type", select "GDR-Writing Emphasis."

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, 115, 116.
Geography 100EL, 101, 340 (no lab), 350.
Geology 100, 104.
Physics 100EL 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, 270, 271, 370, 371, 372, 374, 375, 378, 380, 396; Arabic 101, 102, 211, 212; Chinese 101, 102, 200, 201; Communication 364; English 281, 374; Geography 110, 113, 120, 300, 302, 325, 327; History 101, 102, 201, 204, 205, 206, 216, 217, 232, 233, 240, 241, 248, 249, 310, 313, 316, 317, 318, 322, 338, 348, 370, 371, 372, 373, 374, 392; Hmong 101, 102; Interior Architecture 150, 310; Japanese 101, 102, 211, 212, 313; Music 220; Philosophy 105, 230, 381; Political Science 160, 362, 371, 372, 375, 382; Religious Studies 100, 105, 107, 305, 316, 333, 340, 341; Russian 101, 102, 211, 215, 216, 315, 316; Sociology 343, 370; Spanish 483; Water 220.

Minority Studies. One course required. Anthropology 371; English 280, 282, 382, 386; History 284, 285, 288, 289, 290, 291, 292, 310; Interior Architecture 160; Music, 105, 305; Philosophy 381; Political Science 202, 315, 408, 414; Psychology 322; Religious Studies 311, 316; Sociology 101, 102, 270, 316; Spanish 480, 482; Women's Studies 105, 320.

A. **History.** 3 credits from History 101NW, 102NW, 176, 177, 201NW, 204NW, 205NW, 206NW, 216NW, 217NW, 232, 233, 240NW, 241NW, 248, 249, 256, 257, 280, 284MNS, 285MNS, 288MNS, 289MNS, 290MNS, 291MNS, 292MNS, 372, 373.

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, 397.
Communication 160, 171, 190, 273, 360, 361, 362, 363, 367.
Dance 352.

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

Music 100, 103, 105MNS, 220NW, 221, 300, 301, 305MNS, 307, 320, 323, 326, 329, 427.
Theatre 105, 329, 351, 352, 361, 362, 452, 490.
Web Digital Media Devel 100.

Humanities Area 2 *Literature:*

Comparative Literature 102.
English 106, 108, 200, 211, 212, 213, 214, 280MNS, 281NW, 282MNS, 283, 285, 286, 288,

18 Bachelor of Science General Degree Requirements

289, 308, 309, 310, 311, 312, 313a, 313b, 314, 319, 320, 329, 330, 333, 334, 336, 361, 362, 363, 365, 366, 374NW, 378, 382MNS, 383, 386MNS(by subtitle), 395.

French 340.
German 340.
Spanish 340.

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

Philosophy 100, 101, 105NW, 121, 230NW, 270, 301, 302, 305, 306, 307, 315, 320, 325, 326, 327, 336, 380EL, 381NW/MNS.
Political Science 270, 391, 393, 394, 395.
Religious Studies 100NW, 101, 202, 105NW, 107NW, 301, 302, 303, 304, 311MNS, 316NW or MNS, 321, 330, 333NW, 340NW, 341NW, 342.

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

Foreign Language 381.
French 481.
German 481.
History 322NW, 348NW, 367, 370NW, 396.
International Studies 381.
Peace Studies 200.
Spanish 481, 482MNS, 483NW.
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, 325NW, 327NW, 328, 366, 369, 373, 374.
Political Science 101, 160NW, 180, 201, 202MNS, 212, 242, 250, 315MNS, 341, 361, 362NW, 371NW.
Psychology 110, 240, 260, 320, 330.
Sociology 101MNS, 102MNS, 224, 225, 230, 240, 270MNS, 300, 310, 327, 360EL, 370NW.

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 335.
Chemistry 100.
Clinical Lab Science 395.
English 392.
Food and Nutrition 357.

Forestry 361NW.
Geography 100, 329, 371.
History 204NW, 280, 304, 392NW.
Human Development 381, 386.
Interior Architecture 130, 315.
Natural Resources 150, 220NW, 324, 370, 395.
Paper Science 103.
Philosophy 380.
Physics 100.
Political Science 304, 305.
Psychology 321.
Safety and Health Protection 330.
Sociology 355, 360.
Water 220NW, 324.

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

- A. Take 1 or 2 credits in **aerobics/activity** (AA) from the following:
Dance 103, 104, 105, 106, 114, 115, 203, 204, 205, 206, 212, 214, 215, 303, 304, 305, 306, 314.
Military Science 111, 121, 153, 154.
Physical Education 150.
Wellness 100 to 299. To see which courses are offered as A/A for a particular semester, check the online timetable on the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and then click on "Timetable." From there, click on "List of Courses by Term." Then select a term and under "Type", select "GDR-Wellness-AA."
- B. Take 1 or 2 credits in **health enhancement** (HE) from the following:
Food and Nutrition 151.
Health Education 140, 280, 390.
Health Promotion/Wellness 102, 103, 107, 110, 148, 206, 207, 208, 248, 299.
Psychology 255, 290.
Wellness 100 to 299. To see which courses are offered as HE for a particular semester, check the online timetable on the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and then click on "Timetable." From there, click on "List of Courses by Term." Then select a term and under "Type", select "GDR-Wellness-HE."

6. **Minimum Credits for Graduation.** To graduate, you must earn at least 120 credits, which include the general requirements for your degree and the requirements for at least one major. You may need to take some elective credits. Some majors may require 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 Application and Approval.** Apply online for graduation at <http://www.uwsp.edu/reg-rec/gradinfo.aspx> at least one full semester prior to the term in which you will complete your degree. 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 online timetable for the most up-to-date list of general degree requirement offerings on the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and then click on "Timetable." From there, click on "List of Courses by Term."

Bachelor of Music/Bachelor of Fine Arts General Degree Requirements

1. **Verbal and Quantitative Skills.** 12-16 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 WE courses as part of the major. You may use WE courses simultaneously to fulfill electives, major requirements, or general degree requirements. To see which courses are offered as Writing Emphasis for a particular semester, check the online timetable on the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and then click on "Timetable." From there, click on "List of Courses by Term." Then select a term and under "Type", select "GDR-Writing Emphasis."

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: Comm 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: (and placement into Math 100) one year of college work in one of the following sequences: Arabic 101-102NW. Chinese 101-102NW. French 101-102. German 101-102. Hmong 101-102NW. Japanese 101-102NW. Polish 101-102. 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, 115, 116.
Geography 100EL, 101, 350.
Geology 100, 104.
Physics 100EL 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 176-177).

Non-Western Culture. One course required. Anthropology 101, 110, 125, 315, 320, 335, 338, 339, 345, 380; Art 181, 270, 271, 370, 371, 372, 374, 375, 378, 380, 396; Arabic 101, 102, 211, 212; Chinese 101, 102, 200, 201; Communication 364; English 281, 374; Geography 110, 113, 120, 300, 302, 325, 327; History 101, 102, 201, 204, 205, 206, 216, 217, 232, 233, 240, 241, 248, 249, 310, 313, 316, 317, 318, 322, 338, 348, 370, 371, 372, 373, 374, 392; Hmong 101, 102; Interior Architecture 150, 310; Japanese 101, 102, 211, 212, 313; Music 220; Philosophy 105, 230, 381; Political Science 160, 362, 371, 372, 375, 382; Religious Studies 100, 105, 107, 316, 333, 340, 341; Russian 101, 102, 211, 215, 216, 315, 316; Sociology 343, 370; Spanish 483; Water 220.

Minority Studies. One course required. Anthropology 371; English 280, 282, 382, 386; History 130, 381, 382, 384, 385; Interior Architecture 160; Music, 105, 305; Philosophy 381; Political Science 202, 315, 408, 414; Psychology 322; Religious Studies 311, 316; Sociology 101, 102, 270, 316; Spanish 480, 482, 480; Women's Studies 105, 320.

A. **History.** 6 credits required. History 101NW, 102NW, 176, 177, 201NW, 204NW, 205NW, 206NW, 216NW, 217NW, 232, 233, 240NW, 241NW, 248, 249, 256, 257, 280, 284MNS, 285MNS, 288MNS, 289MNS, 290MNS, 291MNS, 292MNS, 372, 373.

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, 397. Communication 160, 171, 190, 273, 360, 361, 362, 363, 367.

20 Bachelor of Music/Bachelor of Fine Arts General Degree Requirements

Dance 352.
Interior Architecture 150NW, 160MNS, 309, 310NW.
Music 100, 103, 105MNS, 220NW, 221,300, 301,
305MNS, 307, 320, 323, 326, 329, 427.
Theatre 105, 329, 351, 352, 361, 362, 452, 490.
Web Digital Media Devel 100.

Humanities Area 2: Literature:

Comparative Literature 102.
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,
365, 366, 374NW, 378, 382MNS, 383, 386MNS(by
subtitle), 395.
French 340.
German 340.
Spanish 340.

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

Philosophy 100, 101, 105NW, 121, 230NW, 270,
301, 302, 305, 306, 307, 315, 320, 325, 326, 327,
336, 380EL, 381NW/MNS.
Political Science 270, 391, 393, 394, 395.
Religious Studies 100NW, 101, 202, 105NW,
107NW, 301, 302, 303, 304, 311MNS, 316NW or
MNS, 321, 330, 333NW, 340, 341NW, 342.

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

Foreign Language 381.
French 481.
German 481.
History 322NW, 348NW, 367, 370NW, 396.
International Studies 381.
Peace Studies 200.
Spanish 481, 482MNS, 483NW.
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, 325NW, 327NW, 328, 366, 369,
373, 374.
Political Science 101, 160NW, 180, 201, 202MNS,
212, 242, 250, 315MNS, 341, 361, 362NW,
371NW.
Psychology 110, 240, 260, 320, 330.
Sociology 101MNS, 102MNS, 224, 225, 230, 240,
270MNS, 300, 310, 327, 360EL, 370NW.

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 335.

Chemistry 100.
Clinical Lab Science 395.
English 392.
Food and Nutrition 357.
Forestry 361NW.
Geography 100, 329, 371.
History 204NW, 280, 304, 392NW.
Human Development 381, 386.
Interior Architecture 130, 315.
Natural Resources 150, 220NW, 324, 370, 395.
Paper Science 103.
Philosophy 380.
Physics 100.
Political Science 304, 305.
Psychology 321.
Safety and Health Protection 330.
Sociology 355, 360.
Water 220NW, 324.

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

A. Take 1 or 2 credits in **aerobics/activity** (AA) from the following:
Dance 103, 104, 105, 106, 114, 115, 203, 204,
205, 206, 212, 214, 215, 303, 304, 305, 306, 314.
Military Science 111, 121, 153, 154.
Physical Education 150.
Wellness 100-299. To see which courses are offered as A/A for a particular semester, check the online timetable on the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and then click on "Timetable." From there, click on "List of Courses by Term." Then select a term and under "Type", select "GDR-Wellness-AA."

B. Take 1 or 2 credits in **health enhancement** (HE) from the following:
Food and Nutrition 151.
Health Education 140, 280, 390.
Health Promotion/Wellness 102, 103, 107, 110,
148, 206, 207, 208, 248, 299.
Psychology 255, 290.
Wellness 100-299. To see which courses are offered as HE for a particular semester, check the online timetable on the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and then click on "Timetable." From there, click on "List of Courses by Term." Then select a term and under "Type", select "GDR-Wellness-HE."

6. **Minimum Credits for Graduation.** To graduate, you must earn at least 120 credits, which include the general requirements for your degree and the requirements for at least one major. You may need to take some elective credits. Some majors may require 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 Application and Approval.** Apply online for graduation at <http://www.uwsp.edu/reg-rec/gradinfo.aspx> at least one full semester prior to the term in which you will complete your degree. 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) approved for your degree area.

Be sure to check the online timetable for the most up-to-date list of general degree requirement offerings on the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and then click on "Timetable." From there, click on "List of Courses by Term."

Associate Degree (AD)

Student Academic Advising Center
Room 103, Student Services Center
Phone: 715-346-3361
Fax: 715-346-4143
E-mail: acadadv@uwsp.edu

Here are the general requirements for the associate degree. Be sure to tell your advisor 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 advisor 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, 115, 116.
Geography 100EL, 101, 340 (no lab), 350.
Geology 100, 104.
Physics 100EL or 101, 115, 150, 203, 204, 250.
 - b. **History**, minimum of 3 credits from History 101NW, 102NW, 176, 177, 201NW, 204NW, 205NW, 206NW, 216NW, 217NW, 232, 233, 240NW, 241NW, 248, 249, 256, 257, 280, 284MNS, 285MNS, 288MNS, 289MNS, 290MNS, 291MNS, 292MNS, 372, 373.
 - 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, 397.
Communication 160, 171, 190, 273, 360, 361, 362, 363, 367
Dance 352.
Interior Architecture 150NW, 160MNS, 309, 310NW.
Music 100, 103, 105MNS, 220NW, 221, 300, 301, 305MNS, 307, 320, 323, 326, 329, 427.
Theatre 105, 329, 351, 352, 361, 362, 452, 490.
Web Digital Media Devel 100.
 - 2) **Humanities Area 2: Literature**:
Comparative Literature 102.
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, 365, 366, 374NW, 378, 382MNS, 383, 386MNS(by subtitle), 395.
French 340.
German 340.
Spanish 340.
 - 3) **Humanities Area 3: Philosophy, political theory, and religious studies**:
Philosophy 100, 101, 105NW, 121, 230NW, 270, 301, 302, 305, 306, 307, 315, 320, 325, 326, 327, 336, 380EL, 381NW/MNS.
Political Science 270, 391, 393, 394, 395.
Religious Studies 100NW, 101, 202, 105NW, 301, 302, 303, 304, 311MNS, 316NW or MNS, 321, 330, 333NW, 340, 341NW, 342.
 - 4) **Humanities Area 4: Civilization, area studies, and interdisciplinary courses**:
Foreign Language 381.
French 481.
German 481.
History 322NW, 348NW, 367, 370NW, 396.
International Studies 381.
Peace Studies 200.
Spanish 481, 482MNS, 483NW.
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, 335NW, 338NW, 339NW, 345NW, 380NW.
Economics 210, 211.
Geography 110NW, 113NW, 120NW, 211, 226, 300NW, 302NW, 325NW, 327NW, 328, 366, 369, 373, 374.
Political Science 101, 160NW, 180, 201, 202MNS, 212, 242, 250, 315MNS, 341, 361, 362NW, 371NW.
Psychology 110, 240, 260, 320, 330.
Sociology 101MNS, 102MNS, 224, 225, 230, 240, 270MNS, 300, 310, 327, 360EL, 370NW.
 - 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, 114, 115, 203, 204, 205, 206, 212, 214, 215, 303, 304, 305, 306, 314, Military Science 111, 112, 153, 154.
Physical Education 150.
Wellness 100 to 299. To see which courses are offered as A/A for a particular semester, check the online timetable on the Registration and Records

22 Associate Degree (AD)

homepage (<http://www.uwsp.edu/reg-rec/>) and then click on "Timetable." From there, click on "List of Courses by Term." Then select a term and under "Type", select "GDR-Wellness-AA."

b. **Health Enhancement:**

Food and Nutrition 151.

Health Education 140, 280, 390.

Health Promotion/Wellness 102, 103, 107, 110, 148, 206, 207, 208, 248, 299.

Psychology 255, 290.

Wellness 100 to 299. To see which courses are offered as HE for a particular semester, check the online timetable on the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and then click on "Timetable." From there, click on "List of Courses by Term." Then select a term and under "Type", select "GDR-Wellness-HE."

5. Additional approved courses to total 60 credits.

a. Earn a minimum of 15 credits from UWSP.

b. Earn a 2.00 or better grade point average at UWSP.

c. Earn a 2.00 or better grade point average overall (includes UWSP and transfer credits).

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 BA 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
 Dan Kellogg, Registrar
 Ed Lee, Associate Registrar
 Room 101, Student Services Center (SSC)
 1108 Fremont Street
 Phone: 715-346-4301
 E-mail: regrec@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. We do, however, keep all of the work you have done at UW-Stevens Point on your official record.

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 we 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).

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 **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, 101 SSC, before electing this option. If you take it, you may have to repay the VA for past benefits you have received. For more information, see www.uwsp.edu/reg-rec/veterans.htm.

Academic Classification

See **Classification**.

Academic Progress

See **Satisfactory Academic Progress**.

Academic Requirements

Your advisor 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, 101 SSC. 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.

Academic Standing

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

Adding a Course

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

Advisors

Each UWSP student has an academic advisor. Once you are accepted into a major, the chair of your major department assigns you to an advisor. If you have more than one major you should have an advisor for each program.

Your advisor 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.

24 More Academic Information

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

You must meet with your advisor each semester to discuss your course of study. Your advisor must also approve and electronically authorize your course choices for the upcoming semester so that you can register for classes.

College of Natural Resources majors: If you are a freshman or sophomore in the College of Natural Resources majoring in a subject other than paper science, the CNR advising and recruitment coordinator is your advisor.

Undecided/Undeclared/Dropped from Major/ Exploring Options: If you have not yet declared a major, or are in one of the situations below, go to the Student Academic Advising Center (SAAC), Room 103, Student Services Center to be assigned an advisor. SAAC advisors can help you in the development of your educational plans, in the decision-making process for selecting a major, and in the clarification of the relationship between educational plans and career goals. SAAC advisors also assist you in examining major alternatives if you

- are unable to gain entrance into your preferred major due to enrollment management policies;
- are struggling to reach or maintain the academic standards set by your desired major (for example: not meeting GPA, performance or portfolio standards);
- elect to leave a major and need help in exploring your options. See **Undecided/Undeclared** section later in this catalog.

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 <http://athletics.uwsp.edu/>.

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, SSC, 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 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.

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 course.
3. Between the first and eighth day of class, fill out an audit form at the Registration and Records Office, 101 SSC, 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 for refund of academic fees applies.
- 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 SSC, 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 more about choosing a major or how the major you have chosen might relate to employment following graduation, the Career Services Office can help. Information on their services and follow-up studies of recent graduates are available on their Web site at www.uwsp.edu/career. For assistance, stop by their office in Room 134 Old Main, call 715-346-3226, or e-mail career@uwsp.edu.

Certificate Programs

Certificate programs are groupings of courses that are usually interdisciplinary and are different from any specific UWSP major or minor. Certificate programs are recognized by various professional organizations and industries. They are designed to enhance your career goals and/or eligibility for membership in some professional organizations. Contact your advisor, UWSP Continuing Education, or the appropriate academic department for more details.

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 "upperclass students" refers to those who have earned 60 credits or more (juniors and seniors).

Collaborative Degree Program

University of Wisconsin Colleges in Wausau, Marshfield, Fond du Lac, Fox Valley, and Marinette have joined with UW-Stevens Point to offer a bachelor's degree with majors in business administration, general studies and Web and digital media development. 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. Advisors 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 more information call 715-295-8900 or see www.uwsp.edu/cdp.

Continuing Education

See **UWSP Continuing Education** later in this section.

Correspondence Courses

See **Online, Distance, or Independent Learning Courses** later in this section.

Course Waivers and Substitutions

The requirements for degrees, majors and certificates represent the faculty's judgment of the minimum standards for knowledge and skills that you must meet in that academic field. On occasion, a waiver or substitution for a requirement may be appropriate under particular conditions unique to a specific student.

If you believe that your situation may warrant a waiver or substitution, you should first contact your academic advisor. Ultimately, all waivers and/or substitutions of major or minor requirements must be approved by the chair/head of your major/minor department.

To request a waiver and/or substitution for a general degree requirement (GDR), submit a request to the dean, or designee, of the college of your major. Waivers and/or substitutions may be granted only with adequate cause and if they are consistent with UWSP GDR guidelines.

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.

Degree Progress Report

A Degree Progress Report (DPR) is an advising tool that evaluates your progress toward meeting your graduation requirements at UWSP. Access to this document is available to both students and academic advisors through myPoint. The DPR is for internal use, and for information purposes only. It in no way substitutes for regular meetings and guidance from your academic advisor.

A DPR provides detailed information on how completed courses at UWSP and/or other institutions are applied towards degree requirements at UWSP and identifies any requirements that remain incomplete. The DPR also includes a major GPA, a UWSP GPA, and an overall GPA comprising of both UWSP and transfer course credits. For information on how repeated courses grades are calculated and reported, see the **Repeating Courses** policy.

Every attempt has been made to keep your degree and program requirements up to date. If you have questions or detect discrepancies on the report, please direct questions or concerns as follows:

- Major/Minor - if the question or concern is related to your major/minor, please consult with your advisor or the Chair of the Department of that major/minor.
- GDR - if the question or concern is related to the general degree requirements, please consult with your advisor or e-mail the Registrar's Office at regrec@uwsp.edu.

NOTE: The DPR is not a transcript. A **transcript** is an official, certified copy of your academic records that shows a complete history of all courses attempted at UWSP, including grades received, academic standing, degrees earned, majors, minors, and certificates. A transcript reports courses in semester order and your semester and

26 More Academic Information

cumulative grade point averages (GPA's) are shown after each term. Unlike the DPR, 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. For more information on how repeated course grades are calculated and reported, see the **Repeating Courses** policy.

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 and Records 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.

Students are expected to attend the first meeting of class, or have permission from the instructor or chair of the department to be absent. Those who do not attend the first two days of class may be required to drop if there are others who wish to add the course. It is the student's responsibility to officially drop the course through the Records Office or on the web.

Adds/Drops DURING first eight days of the semester.

You are permitted unlimited adds and drops during the first eight (8) days of the semester. 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 advisor. You may DROP a course after the eighth day and through the tenth week of the semester, after obtaining written authorization from the instructor, your advisor, and in some cases, the department chair of the course(s). 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. Requests to drop after the deadline must be directed to the Student Academic Advising Center, 103 SSC.

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 in the Registration and Records Office, 101 SSC. You can also find them online on the Registration and Records homepage (<https://www.uwsp.edu/reg-rec/forms.aspx>.) and clicking on "Forms" and then, "Add/Drop Form and Instructions." Follow the procedures established and retain a copy of all of your drop/add transactions. See the online timetable for prorated drop/add dates for courses that meet less than full term by going to the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>). From there, click on "Registration" and then "Drop/Add Dates."

Withdrawing from UW-Stevens Point.

If you decide to leave the university, contact the Registration and Records Office, 101 SSC, and give them a signed statement saying that you are withdrawing.

Withdrawal forms are also available online at

<https://www.uwsp.edu/reg-rec/cancel%20withdrawal%20form.pdf>. 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. Requests to withdraw after the deadline must be directed to the Student Academic Advising Center, 103 SSC. If you are permitted to withdraw after the tenth week, grades of W will be assigned to your courses. Courses that end before you withdraw are an exception. You will receive grades for courses completed prior to your withdrawal.

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

Dropped from Major

If you have been dropped from your major due to enrollment management policies or because you cannot reach or maintain the academic standards set by your desired major, you may either declare a different major or meet with the staff in the Student Academic Advising Center, Room 103 SSC, 715-346-3361. SAAC staff can assist you in examining major alternatives, in developing of your educational plans, in the decision-making process for selecting a major, and in the clarification of the relationship between educational plans and career goals.

Employment Statistics

See **Career Services** earlier in this section.

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 Provost/Vice Chancellor for Academic Affairs Office, Room 202 Old Main. 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.
- 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 for 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.
- 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.
- WV Waiver.

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.

Graduation

If you are an undergraduate, apply for graduation at least one full semester prior to the term in which you will complete your degree. You can apply for graduation online at: <https://mypoint.uwsp.edu/regrec/regrec068/Default.aspx>. It is your responsibility to make sure your majors and minors are declared in the departments of each program prior to applying for graduation. For additional information on graduation, go to <http://www.uwsp.edu/reg-rec/gradinfo.aspx>.

28 More Academic Information

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.
- Earn a cumulative GPA of 2.00 overall (includes both UWSP and transfer credits).

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 advisors to select the appropriate course sequences which will ensure timely completion of your degree requirements. For 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 program is not for everyone. It might preclude you from obtaining a high credit major that has strict course sequencing, changing majors, extensive extracurricular involvement, internships, or study abroad. For more information, please check with your advisor as soon as you begin 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 and any courses taken at UWSP before the declaration of academic bankruptcy. 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. *Cum laude* is awarded for a grade point average of 3.50 to 3.74.

If you are eligible to wear an honors cord at the commencement ceremony, it will be issued to you when caps and gowns are distributed at the University Store. If you have earned summa cum laude honors, you will have the distinction of having your name announced at the commencement ceremony.

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.

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) that occurs near the end of the semester. An "incomplete" normally will not be used for making up in-class work; therefore do not expect to sit in the class in a subsequent semester. If your request for an "incomplete" is 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. 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 the Registration and Records Office 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 Continuing Education Office at 715-346-3838 or 1-800-898-9472 for classes geared for the older student and for professional development.

International Programs (IP)

Eric Yonke, 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 your financial aid money.

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

In Europe you may study in Britain, France, Germany, Hungary, Ireland, 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, winterim and spring break programs feature varying locations and themes such as tropical ecology in Costa Rica and international resource management in Belize/Mexico or 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. Internships are available in London year-round.

We encourage you to plan ahead and apply early. Your academic advisor 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. For more information, visit the IP Office, or write, e-mail, or check out our Web site.

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.

If you have not yet decided on a major, go to the Student Academic Advising Center (SAAC), Room 103 SSC, to be assigned an advisor. SAAC advisors will assist you in the development of your educational plans, in the decision-making process for selecting a major, and in the clarification of the relationship between educational plans and career goals.

It is up to you to be sure that you complete all the requirements for your major and minor. Check regularly with an advisor in each department in which you have majors and minors 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. For more information, contact Non-Traditional Student Services, Room 064, Dreyfus University Center, 715-342-5327. Scholarships for nontraditional students are also available.

Online, Distance, or Independent Learning Courses

UWSP offers some online courses through UWSP Continuing Education. See **UWSP Continuing Education** later in this section or visit their Web site at www.uwsp.edu/conted. You may earn credits online or through distance or independent learning from other accredited universities and transfer the credits to apply toward your degree at UWSP. These transfer credits must meet all the rules about transferring credits to UWSP. See **Transferred Credits** later in this section.

If a course is to meet a general degree requirement, you should check with the Registration and Records Office, 101 SSC, about how it will transfer. If you want the course to apply to a major or minor, you need to check with the appropriate academic department.

Fee waivers for courses taken through UW-Independent Learning (Learning Innovations): If you are a full-time student at UWSP and want to take a course through UW-Independent Learning (Learning Innovations), you may qualify for a fee waiver of all or part of the tuition for this course. You must apply for this fee waiver in the Registration and Records Office, 101 SSC, during the first half of the semester. A fee waiver will not apply to service charges, textbooks, or course materials.

The Registration and Records Office has UW-Independent Learning catalogs available. You can also view the catalog online at <http://learn.wisconsin.edu/il> or call 877-895-3276.

30 More Academic Information

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 advisor.

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, 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.

At the undergraduate level, 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.

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 as pass/fail only.

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. To do this, you will need to fill out a special pass/fail registration form available in Registration and Records Office, 101 SSC.

For information on which courses are offered pass-fail, go to the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and then click on “Timetable.” From there, click on “List of Courses by Term.” The link for Pass/Fail Grading is on the top of that page. 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

See **Career Services** earlier in this section.

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

You are in good academic standing if both your semester and cumulative grade point averages (GPAs) are 2.00 or better.

Probation-1 means that either your semester GPA or your cumulative GPA (or both) are less than 2.00. This is a warning that you need to raise both your semester and cumulative GPAs to a 2.00 or higher at the end of your next semester of attendance at UWSP to be in good standing.

1. If you are on Probation-1 and your semester **OR** cumulative GPA (but not both) falls below 2.00 at the end of your next semester of attendance, you will be placed on Probation-2.
2. If you are on Probation-1 and your semester **AND** cumulative GPA fall below 2.00 at the end of your next semester of attendance, you will be suspended.
3. Probation-1 does not appear on your transcript.

Probation-2 means that either your semester or your cumulative GPA is less than 2.00 **AND** you are already on Probation-1. This is a final warning that you need to raise both your semester and your cumulative GPAs to a 2.00 or higher at the end of your next semester of attendance.

1. If you are on Probation-2 and your semester **OR** cumulative GPA falls below 2.00 at the end of your next semester of attendance, you will be suspended.
2. Probation-2 does not appear on your transcript.

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

Suspension means that you are not eligible to continue classes at UWSP for a period of time. If you are suspended, you will be sent a copy of your academic record and a letter that further explains your situation. You will be suspended if:

1. You earned less than a 2.00 in EITHER your semester or cumulative GPA after having been on Probation-2.
2. You earned less than 2.00 in both your semester and cumulative GPAs after having been on Probation-1.
3. You earned a cumulative GPA less than 2.00 and a semester GPA less than 1.00.
4. You were admitted to UWSP on probation and you earned less than a 2.00 GPA during your first semester of attendance at UWSP.

Suspension status DOES appear on your transcript.

Winterim grades can be used to improve your academic standing, but you cannot be placed on academic probation or suspension as a result.

Summer grades can cause you to be placed on or off academic probation, but you cannot be suspended as a result.

You may attend a summer session after being suspended. While your successful performance in such courses may provide evidence of your readiness to return to college, it

does not guarantee your readmission to UWSP. Please call Admissions at 715-346-2441 for more details. 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. Copies are available at Registration and Records, 101 SSC.

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/counseling records used solely for treatment.
- Financial records of your parents.
- Confidential letters, 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 Vice 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 and Records 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.
- Attendance (including beginning, ending, registration and withdrawal dates; credits carried in a term; current classification; and 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.

32 More Academic Information

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 "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 non-university 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 Registration and Records Office, 101 SSC, 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 the Registration and Records Office, 101 SSC, 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.

Registration

You may register at UW-Stevens Point or add additional courses online through the eighth day of classes during the fall and spring semester. After the eighth day of classes, the online registration system is turned off and appropriate signatures will be required to add or drop courses.

Religious Beliefs Accommodation

It is UW System policy to reasonably accommodate your sincerely held religious beliefs with respect to all examinations and other academic requirements.

1. You will be permitted to make up an exam or other academic requirement at another time or by an alternative method, without any prejudicial effect, if:
 - 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 a remedial course in mathematics, your academic advisor will encourage and help you restrict your coursework to a level that will allow you to succeed.

You must receive written permission from your advisor to enroll in more than 16 credits during any semester in which you are taking remedial courses. If you want to take more than 17 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 online authorization from your advisor 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 your advisor and 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 advisor, 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.

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 the other institution will be removed from your record.

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 (SAP) by passing and completing a certain percentage of the credits in which you are enrolled. In the following table you will find the percentage of credits you must earn at each level of total enrolled credits.

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.

Your academic progress percentage is printed on your degree progress report. Keep these 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, (+ or -) F, P, I, W, and credits by exam.

2. Take the total of the number of those credits which you have **passed** at UWSP – those in which you have earned grades of A, B, C, D, P and credits by exam. Do not include grades of F, I, or W.
3. Take the total number of credits **passed**. Divide that number by the number of credits enrolled. The resulting number is the percent of credits you have earned out of the number in which you've enrolled.
4. To determine the percentage of UWSP credits you need to earn, take the number of UWSP credits in which you've enrolled and **add to it any transfer credits you have**. Now refer to the above chart using the total enrolled credits. The percentage you need to have is directly across from the number of credits enrolled.
5. There are no exceptions to this policy for students who declare academic bankruptcy.
6. 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.
7. 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.
8. 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, the Registration and Records Office 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

All buildings on the UWSP 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 139 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

34 More Academic Information

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 <http://www.uwsp.edu/admin/stuaffairs/rightsandresponsibilities.aspx> 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.

Study Load

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

Study loads of 18, 19, or 20 credits must be approved BEFORE you register. For the appropriate authorizing official for your department/program, go to the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and click on "A-Z Search for Academic Information." From there, click on "Attendance Policy" and then "Study Load (Fall/Spring)."

The dean of your college must approve study loads of 21 credits or more. We grant requests 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 the 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 advisor if credits in one of these would apply toward your requirements. You can view the summer session class schedule at <https://mypoint.uwsp.edu/regrec/regrec046/regrec046.aspx>.

Suspension

See **Probation/Suspension**.

Sustainability

UWSP is committed to sustainability and its practice in our daily operations. Sustainability is the human enterprise of living to meet today's needs without compromising the needs of future generations, and to be ecologically sound, socially just, culturally affirming, politically doable, and economically viable. We demonstrate our commitment to

sustainability through such measures as resource recovery (recycling), composting food wastes, energy reduction and continually exploring ideas to promote and support sustainability initiatives.

Text Rental

The primary textbook usage on the UWSP campus is through Textbook Rental, a self-supporting service financed through student text rental fees. The Text Rental service is available to undergraduate students and is similar to a library system, where you check out most of your course books and return them at end of the semester. (*The rental fee is included in the undergraduate tuition.*) A UWSP PointCard I.D. is required to check books out and in. (*UWSP has been operating a "text rental" service since its beginning in 1894.*) Additional supplemental books for courses are generally "purchase" items for students; i.e. study guides, workbooks, consumable items, etc. <http://www.uwsp.edu/centers/textrental/index.asp>

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 online at <http://www.uwsp.edu/reg-rec/transcripts.aspx/>. If you don't have Internet access, contact Credentials Inc. at 800-646-1858. Transcripts are \$7.00 per copy. 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, UW-Stevens Point, 1108 Fremont Street, Stevens Point WI 54481-3897, 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 125-150 peer tutors, the Tutoring-Learning Center (TLC), located in the lower level of the Learning Resources Center, 346-3568, offers tutoring to students in most majors. Each academic year, nearly 25 percent of the student body, from freshmen to graduate students, participate in tutorials with TLC peer tutors.

TLC Tutorial Programs

- **Writing and Reading.** Students work one-on-one with peer tutors on assignments for university classes.
- **Reading in the Disciplines Program (RID).** 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 and individual students meet with tutors for most general degree requirement (GDR) courses.
- **English '57 Series.** In this one-credit independent writing course (English 157, 257, or 357), students explore various kinds of writing in one-on-one sessions with peer tutors.

UWSP Continuing Education

John Birrenkott, Interim Coordinator
 Room 032, Main Building
 Phone: 715-346-3838 or 800-898-9472
 E-mail: uwspce@uwsp.edu
 Web: www.uwsp.edu/conted

UWSP Continuing Education 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 Continuing Education 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.

- **Credit Classes.** UWSP Continuing Education provides graduate and undergraduate for-credit classes for adult learners in a variety of formats at various locations.
- **CPS-Continuing Education (CPS-CE)**
 Room 100, College of Professional Studies Building
 Phone: 715-346-3801 and 715-346-4324
 Web: www.uwsp.edu/cps/conted
 CPS-CE offerings include first-year teacher induction courses; mentor-teacher classes; graduate-level certifications in early childhood education, adapted physical education, health education, and family and consumer science education; two nine-credit graduate-level strands for the master's in education along with electives; courses for the master's degree in human and community resources and nutritional sciences; undergraduate courses in business and economics for non-traditional place-bound students.

- **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.
- **KEEP** (Wisconsin K-12 Energy Education Program) aims to energize Wisconsin K-12 classrooms with information and curricular activities about energy use, concepts and issues. See www.uwsp.edu/keep
- **LEAF** (Learning, Education, and Activities in Forestry) provides quality forestry education materials and school forest and consulting services to formal and nonformal educators in Wisconsin. See www.uwsp.edu/cnr/leaf
- **Wisconsin Learning Center (WLC)**, a partnership of UWSP, Mid-State Technical College, and Portage County Business Council Foundation, provides training and educational programs for individuals, groups and organizations at its off-campus, business park location.
- **Small Business Development Center (SBDC)** provides credit, noncredit, and CEU workshops and seminars; entrepreneurial business planning tools; management and leadership certificate programs for business and industry; customized on-site training programs; GIS mapping services; and no-cost small business counseling services.
- **Arts and Culture Outreach** features noncredit programs for children and adults in music, dance, drawing, creative writing, photography, visual arts, and more.
- **LIFE (Learning Is For Ever)** is a membership-based association for senior adult learners providing many classes, programs and field trips throughout the year.
- **Summer Arts Camps** are week-long residential camps offered for junior and senior high school students in music and studio art.
- **Travel:** Noncredit outreach travel programs for adults are offered each year to a variety of destinations. See <http://www.uwsp.edu/conted/travel/default.aspx>.

Winterim

Winterim is a short session that occurs during the three weeks preceding each spring semester. A variety of courses are offered to help you accelerate degree completion or catch up on a few credits.

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)

Jeff W. Morin, Dean
Room 101, Noel 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 students, faculty and programs both on and off campus, the College of Fine Arts and Communication inspires, creates, and achieves.

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 21 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 acting, design and technology, or musical theatre.
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, and music.

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 college's continuing education program, and the Aber Suzuki Center and American Suzuki Institute. 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 details.

College of Letters and Science (L&S)

Charles Clark, Interim Dean
 Diane Gillo, Associate Dean
 Neil Heywood, Interim 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: American studies, biochemistry, biology, chemistry, computer information systems, English, French, geography, German, history, international studies, 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: anthropology, applied mathematics, biology, chemistry, comparative literature, earth science, English, English for elementary education, teaching English as a second language, environmental studies, French, geographic information systems and spatial analysis, geography, geology, German, gerontology, history, international studies, 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, 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 program in Letters and Science that requires you to declare a minor is computer information systems. 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 advisor familiar with the requirements of the profession you plan to enter. Your advisor 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 advisor. Your advisor, 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 that will permit you to meet or surpass the admission 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 UWSP. 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 advisor 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 advisor or the advising office in the School of Education. If you seek a certificate to

38 College of Letters and Science (L&S)

teach at the secondary 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 advisor 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 advisors 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 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 advisor. 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 115, 116 (or 105 and 106), 325, 326; Mathematics 120; Physics 203 and 204. For additional requirements and suggested electives, see a prepharmacy advisor.

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 advisor 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 advisor.

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)

Christine L. Thomas, Dean
 John Houghton, 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 that will be useful 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:

Fisheries and Water Resources: In fisheries and water resources you select from options in fisheries, watershed management or water resources. These prepare you for a career or graduate study in fishery science or management, aquatic biology, hydrology, hydrogeology (groundwater), laboratory analysis of water and environmental samples, aquatic toxicology, and the assessment and management of water resources.

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 and Engineering: 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 employment options.

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.

Wildlife Ecology: 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 ecology information and education (not for teacher certification) if your primary interest is to be a wildlife educator/interpreter. When you graduate with either option, 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 ecology, 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 studies 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 exempt 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 advisor. If you do not have an advisor, 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 students to Germany, Poland and several other European countries to provide an opportunity to study resource management issues. This 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, and New Zealand. These experiences have a specific environmental studies focus and are in addition to the many international programs offered through UWSP International Programs.

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. Web: www.uwsp.edu/cnr/cwes/

Schmeckle Reserve

Schmeckle 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 forest 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 Schmeckle Reserve. For more information call 715-346-4992, write Schmeckle Reserve, College of Natural Resources, or e-mail schmeckle@uwsp.edu. Web: www.uwsp.edu/cnr/schmeckle/

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. Web: www.uwsp.edu/cnr/treehaven/

College of Professional Studies (CPS)

Joan DeGuire North, Dean
Room 110, 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 (HPHD), the Division of Interior Architecture, the Division of Business & Economics, Department of Health Sciences, and the Department of 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 people, events, trends, and politics of the professional workplace.
- Discover that we are proactive, resourceful, connected, and caring.

Undergraduate Programs In Professional Studies

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

- Division of Business and Economics with majors and minors in Business Administration, Economics, or Accounting.
- 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 behavioral disabilities, cognitive disabilities; 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 sciences, or dietetics, and minors in nutrition or child and family studies.
- Division of Interior Architecture with a major in interior architecture.
- Department of Health Sciences with majors in clinical laboratory science or health science.

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 advanced degrees in:

- Audiology (clinical doctorate joint program with UW-Madison).
- Communicative disorders with an emphasis in speech and language pathology (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 graduate programs, see the **Graduate** section of this catalog.

CPS-Continuing Education (CPS-CE)

Room 100, College of Professional Studies Building
Phone: 715-346-3801 and 715-346-4324
Web: www.uwsp.edu/cps/conted

CPS-CE works to connect the College of Professional Studies with educators, school districts, organizations and professionals throughout Central Wisconsin by meeting the needs of professionals in their workplace.

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 have already earned 29 college credits. Also meet any other prerequisites that are listed.

300-399 **Junior level.** The basic prerequisite for these courses is "junior standing" which means you 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 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 700-999 are offered only at the graduate level.

Pass/Fail Courses

You can register for some, or certain sections of courses on a "Pass/Fail" basis. For information on which courses are offered pass-fail, go to the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and click on "Timetable." From there, click on "List of Courses by Term." The link for Pass/Fail Grading is on the top of that page. See the section in the 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
dir	director
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*.

American Studies (College of Letters and Science)

Todd Good, Coordinator
Room 116, Collins Classroom Center
Phone: 715-295-8900
E-mail: Todd.Good@uwsp.edu

American Studies Major (BA or BS)

Consists of a minimum of 40 credits. Note that prerequisites for some courses may increase the number of credits needed. Complete ONE option below.

A. American Studies Option

- Foundation requirements, 15 credits. Take 5 of these 6 courses: English 213, 214; History 176, 177; Music 105; Political Science 101.
- Core requirements, 12 credits. Take 2 courses in each category.
 - Institutions:** Economics 311, 315, 328*; Political Science 310, 320, 391; Sociology 300, 327, 328*.
 - Culture:** Computer Information Systems 300; English, 313a, 313b, 360; History 386, 387, 388, 395†.

*May not take both Econ 328 and Soc 328.

†May be repeated with appropriate American Studies subtitles (9 credits maximum).

- Electives, 12 credits from the list below. You may NOT count courses for both categories 2 and 3.
 - Computer Information Systems 300.
 - Economics 311, 315, 328*, 374.
 - English 313a, 313b, 320, 329, 360.
 - History 280, 284, 285, 292, 302, 377, 378, 380, 381, 384, 386, 387, 388, 393, 395†, 396†.
 - Political Sci 306, 307, 308, 310, 315, 316, 317, 320, 322, 330, 331, 333, 334, 341, 383, 391.
 - Religious Studies 302, 311, 316.
 - Sociology 300, 327, 328*, 364, 366, 368.
 - Art 390, 391.
 - Dance 352.
 - Music 329.
 - Theatre 361, 362.
 - American Studies 395, 397.
 - Anthropology 339

*May not take both Econ 328 and Soc 328.

†May be repeated with appropriate American Studies subtitles (9 credits maximum).

- Electives. To meet the 40 credit upper-level requirement and the 120 credit minimum for graduation, you may select courses from any area that will add to your educational goals.
- Senior experience: See below.

B. Working in a Global Economy Option

- Fundamental requirements, 18-19 credits. Take at least one course from 4 of the 6 areas below. Take remaining courses from any area.
 - Accounting 210; Business 320; Econ 210.
 - Computer Information Systems 101, 102 (concurrent enrollment with 101), 300.
 - Communication 240, 280.
 - English 250, 253, 254, 351.
 - Philosophy 121.
 - Statistics, 4 credits. Economics 310 or Math 355 or Psychology 300 or Sociology 351.
- Area of emphasis, 21 credits. Take at least 3 courses from one of a-d below. Take remaining courses from a-e below.
 - International: History 102; Business 339; Economics 362, 365, 367; English 378; Geography 110, 113, 300, 327; History 316, 317, 348, 359, 363, 370, 373, 396†; Political Science 160, 180, 361, 362, 370, 371, 376, 383, 385; Psychology 320, 322; Sociology 370.
 - Language: At least 9 credits in one language beyond the 212 level.
 - Government: Political Science 202, 242, 250, 354, 356, 358.
 - Psychology/sociology: Psychology 260, 301, 345, 351, 385; Sociology 230, 308, 310, 327, 368.
 - Internship: 1-3 cr. American Studies 397.
†May be repeated with appropriate American Studies subtitles (9 credits maximum).
- Electives: To meet the 40 credit upper-level requirement and the 120 credit minimum for graduation, you may select courses from any area that will add to your educational goals.
- Senior experience: See below.

Senior Experience, 1 credit: American Studies 399, required during the final 30 credits before graduation. This capstone course gives you the opportunity to apply expertise learned in the major and encourages you to become more actively involved in the major. Select 1 or 2 below.

- This independent study involves a significant research paper or similar product, supervised and approved by a faculty member in one discipline represented in the major. Topic should provide continuity and bring integrated closure to the major.
- This independent study involves a project approved and supervised by the American studies coordinator, such as a community-based project that provides practical application of and reflection upon your coursework.

Academic Standards

To graduate with a major in American 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 American studies coordinator. You may take an exam for credit or test-out only once.

44 Anthropology

Collaborative Degree Program

The American studies major is part of the Collaborative Degree Program where students may attend evening classes at any of several campuses. For more information call 715-295-8900.

Courses in American Studies

AMST 395. Topics in American Studies. 1-3 cr. Subtitle will designate discipline and topic. May repeat under different subtitles for 9 cr max.

AMST 397. Internship in American Studies. 1-3 cr. Participate in supervised work program that you arrange with your advisor at a cooperating organization. Credit determined by advisor and American studies coord. May repeat for 3 cr max.

AMST 399. Independent Study for Senior Experience. 1 cr. Capstone experience for American studies major. Define, devise and pursue individual paper or project integrating disciplines from the major. Individual faculty supervision. Prereq: Cons American studies coord.

Anthropology (College of Letters and Science)

Dona Warren, Chair of Philosophy Department

Room 489, Collins Classroom Center

Phone: 715-346-3340

E-mail: philosophy@uwsp.edu

Web: www.uwsp.edu/philosophy/

Faculty: S Alemán, S Ganapathy, I Choi,

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

Definition: Anthropology is the study of human cultural, linguistic and biological diversity, both in a contemporary context and in the context of historical and biological evolutionary changes that have resulted in a rich archaeological and ethnographic record of human physical and cultural adaptation and variety.

Mission: Anthropology, housed in the Department of Philosophy, offers students education in the skills of critical thinking, written and oral communication, and empathetic engagement with diverse worldviews, cultures, ethical systems and religions. The education we offer equips our students with the skills needed for a wide variety of professional careers and with the ability to adapt to the inevitable changes and challenges they will face after graduation in an increasingly globalized world.

Anthropology Minor

Consists of a minimum of 18 credits including:

1. Anthropology 101 or 110 and one from 311, 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.

Academic Standards for Anthropology

1. To ensure that your program is as well planned as possible, you must have an anthropology advisor.
2. You must have your advisor'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 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 department chair 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.

Ethnobotany Minor

Stephanie Alemán, Coordinator

Room 489, Collins Classroom Center

Phone: 715-346-3340

E-mail: philosophy@uwsp.edu

Definition: Ethnobotany is an interdisciplinary approach to understanding the relationships between plants and humans. Through an understanding of the biological and cultural aspects of these relationships, ethnobotany seeks to understand the practical, material, symbolic and identity-forming potential of plants for human populations.

Ethnobotany is also concerned with the ethical and political aspects of global plant consumption, usage and ownership through the mechanism of intellectual property and the relationships between western ideals of conservationism and environmentalism and non-western cultures and practices.

The minor consists of a minimum of 26 credits including:

1. Anthropology 101 or 110.
2. One course from Anthropology 335, 339, 345.
3. Anthropology 380.
4. One course from Anthropology 320, English 392, Philosophy 380, Religious Studies 316.
5. Biology 130, 342, 353, 399 (Field Work in Ethnobotany).

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 102. Introduction to Archaeology. 3 cr. Introduction to the anthropological subfield of archaeology, which studies human cultures through the recovery, documentation, analysis, and interpretation of material remains and environmental data.

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(NW). 3 cr. Introduction to prehistoric, historic and contemporary American Indian cultures of Wisconsin. GDR:SS1

ANTH 199. Reading in the Discipline. 1 cr; pass/fail. Improve reading and thinking skills in anthropology. Taken in conjunction with designated sections of anthropology courses.

ANTH 311. Human Evolution. 3 cr. The study of human evolution, including anatomical, physiological and behavioral adaptations, primate ecology and behavior, and population dynamics. Intro biology course recommended as preparation.

ANTH 315(NW). Principles of Archaeology. 3 cr. Theory and methods of archaeology. Examine world archaeology, 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 350. Cultural Ecology. 3 cr. How cultures interact and adapt to their material and social environments. Prereq: 101 or Sociology 101 or cons instr. GDR: EL

ANTH 353. Cultural Emphasis in Etnobotany. 3 cr. Human/plant relationship from a variety of cross-cultural perspectives meant to shed light on the use of plants as a form of symbolic expression in terms of belief systems, identity construction, ethics, political systems, and worldview. Prereq: 110 or 101, or Biol 130, 160.

ANTH 371(MNS). Contemporary Topics in the Anthropology of Native North America. 3 cr. Introduction to aspects of contemporary cultural and social life in Native North American communities. Topics include: the politics of identity and race, economic development, cultural revitalization and the emergence of global indigenous movements. Prereq: 110 or 101.

ANTH 372. Environmental Anthropology. 3 cr. Upper-division seminar. Employ contemporary and historical anthropological theories in order to better understand cultural aspects of human-environmental interactions, as well as contemporary challenges of environmental conflict and global environmentalism. Prereq: 110 or 101.

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 392. Anthropology Internship. 1 cr; pass/fail. Intern provides small group writing and reading assistance in selected anthropology courses. Prereq: Cons instr.

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. See full course description in indicated (xx-xx) catalog.

334 Peoples of Europe, 3 cr, (95-97)
450/650 Anthropological Theory, 3 cr, (95-97)

Aquaculture/Fish Culture

(College of Letters and Science)

Chris Hartleb, Coordinator
Room 442, College of Natural Resources
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Definition: Aquaculture is the discipline that studies the culture of finfish, methods of production, environmental and ecological manipulation and assessment, selective breeding, nutrition, diseases, processing, marketing and operation of culture facilities. The importance of aquaculture has increased as natural stocks of fish have declined and human consumption has continued to rise.

Aquaculture/Fish Culture Minor

Consists of 27 credits including:

1. Required, 17 credits: Biology 374; Biology 375 or Water 481; Biology/Water 386; Water 480; Business 320.
2. Electives, at least 10 credits from: Biology 333, 362, Biology 499 or Water 381; Biology/Water 338, 361; Water 387, 494, 496; Waste Mgmt 488 or Wildlife 360; Wildlife 322; Business 330.

APPLIED ELECTRONICS

See *Physics*.

APPLIED MATHEMATICS

See *Mathematics and Computing*.

APPLIED MECHANICS

See *Physics*.

APPLIED MUSIC

See *Music*.

APPLIED SOCIOLOGY

See *Sociology*.

ARABIC

See *Foreign Languages*.

ARMY R.O.T.C.

See *Military Science*.

Art & Design

(College of Fine Arts & Communication)

Diana Black, Chair
Room 163, Noel Fine Arts Center
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Faculty: L Ball, D Black, M Brueggeman, K Brunett, D Bywaters, C Chaffin, R Erickson, A Gary, L Hawkos, C Heft, B McKee, J Morin, S Morris, S Morrison, J Noble, G Peñafiel, M Pohlkamp, M Rosek, J Smith, R Stolzer, R Stowers, S Sullivan, K Thielking.

Definition: The studio disciplines of art and design include the following: 2-D (drawing, painting, photography, printmaking); 3-D (ceramics, sculpture); and Graphic design. These fields of study incorporate both technical and conceptual approaches to art making and visual communication. Art History is required throughout the curriculum and new media studio courses can serve as electives for any art discipline.

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

46 Art & Design

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/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 courses specifically related to a career or emphasis area. All of the programs are approved by professional agencies. The Department of Art and Design prepares a curriculum guide and provides an advisor who assists you in planning your long-range programs, but ultimately you bear responsibility for keeping track of the requirements for the program you choose and making sure that you take the courses that meet them. 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.

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

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

Exhibition Material, Visiting Artist/Lecturer Program, and Edna Carlsten 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 Carlsten Gallery, housed in the Noel 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.

Studio Art Foundation

Consists of 12 credits for all art programs: Art 101, 102, 103, 104.

Art History Foundation

Consists of 6 credits of 200-level art history, for all art programs. Choose from 270, 271, 282, 283.

Art 270 and 271 serve as prerequisites for non-Western upper level Art History courses, while Art 282 and 283 serve as prerequisites for Western upper level Art History courses (see catalog descriptions to see which survey courses serve for specific upper level courses).

Art Major (BA)

The Bachelor of Arts is the liberal arts degree. The BA can be earned in either of two ways:

- 1) Studio Art Emphasis, with a focus on art and design in the context of a broad program of general studies. The Studio Art Emphasis B.A. major encourages study in a variety of disciplines and consists of 45 credits in the Department of Art and Design as follows:
 1. Studio Art foundation, 12 credits (see above).
 2. Art History Foundation, 6 credits (see above).
 3. Art history, 6 credits, upper level.
 4. Electives: 21 credits (plus all prerequisites) selected from Art 201, 205, 206, 207, 215, 221, 222, 234, 236, 251, 252, 261, 298 (sections 20-39), 303, 304, 305, 310, 320, 321, 334, 336, 353, 354, 355, 361, 398 (sections 20-39). Art 399 (sections 20-39) may be taken by BA art majors only in semester abroad programs.
- 2) Art Historical Emphasis, with a combination of studio art courses plus a strong art historical preparation. The standards for this B.A. in Art are those needed for admission into graduate study in Art History. The B.A. in Art with Art Historical Emphasis consists of 68 credits, including 8 credits of foreign language.
 1. Studio Art Foundation, 12 credits (see above).
 2. Foundation courses in Art History, 12 credits: Art 270, 271, 282, and 283.
 3. Advanced Art History, 21 credits selected from:
 - a) At least two must be Asian topics. Choose from: Art 370, 371, 372, 374, 375, 378, 396.

- b) At least two must be western topics. Choose from: Art 382, 383, 385, 386, 387, 388, 389, 390, 391, 392, 397.
 - c) At least two must be from Art classes covering periods prior to the 19th century. Choose from: Art 370, 371, 372, 374, 375, 378, 382, 383, 385, 386, 387, 396, 397.
4. Studio, 12 credits. Choose from: Art 206, 207, 215, 221, 222, 234, 236, 251, 252, 261, 303, 310.
 5. Capstone Course, 3 credits: Art 492.
 6. Foreign Language, 8 credits. Faculty will consult with students concerning which languages to study, according to their educational goals, preferred fields of graduate study, etc. Generally, students will be advised to start with French or German; if interested in pursuing Asian art, students will be advised to take at least two years of Chinese or Japanese.

Admission to the Art History Emphasis Area:

Admission to the Art History emphasis area is selective based on an evaluation procedure. This takes place late in the spring semester. You may apply when you've completed at least three studio foundation courses and at least three art history foundation courses, with the fourth either complete or in process.

The evaluation will include an application and interview, supported by review of final exams from at least three art history foundation courses, plus an essay exercise to demonstrate excellent academic performance, writing skills and an overall ability to excel in art history coursework. In the evaluation, you must demonstrate both the ability and the commitment to complete the Art History Emphasis Area to the standards required for admission to graduate school in Art History. If you are not admitted into the Art History Emphasis Area, you will still be in good standing in the B.A. with Studio Art Emphasis, assuming your GPA meets the department standards (see below).

Academic Standards in the Art History Emphasis Area:

You must meet the minimum overall 2.67 GPA for all art courses (studio and history). If your GPA is below 2.67, you may not enter or continue in the Art History emphasis area (there is no academic probation in this program). 300-level and 400-level art history courses cannot be counted towards the art history emphasis area if the grade is below 2.67, but all art course grades count towards the art GPA.

Art Major (BFA)

The Bachelor of Fine Arts is the professional arts degree, with a focus on intensive work in art and design, supported by a program in general studies. The B.F.A. program prepares students for professional careers in the visual arts. In accordance with the standards of the National Association of Schools of Art and Design, the major consists of 80 credits in the Department of Art and Design, as follows:

1. Studio Art foundation, 12 credits (see above).
2. Art History Foundation, 6 credits (see above).
3. One art emphasis area listed below (foundation and emphasis total 80 credits).
4. Distribution of course subjects as specified for the emphasis area. Art 420 may count in only one category, either 2-D or 3-D.
5. Art history: 6 credits at 300 level (includes Art 393).

6. Capstone courses as specified for each emphasis area (e.g., internship, senior seminar, senior gallery show or senior portfolio show).
7. BFA majors must also pass the BFA Portfolio Review, as specified below.

Art & Design Emphasis Options

Two-Dimensional Emphasis:

1. Studio Art foundation, 12 credits (see above).
2. Art History Foundation, 6 credits (see above).
3. Art history, 6 credits from Art 370, 371, 372, 374, 375, 378, 380, 382, 383, 385, 386, 387, 388, 389, 390, 391, 392, 393, 396, 397, 398 (sec 40-49), 399 (sec 40-49), 498 (sec 40-49).
4. Studio art courses, 48 credits as follows:
 - a. WITHIN 2-D EMPHASIS , 39 credits. (Must take Art 234 and 236). Choose from 215, 221, 222, 298 (sec 20-29), 303, 304, 310, 320, 321, 334, 335, 336, 340, 398 (sec 20-29), 399 (sec 20-29), 401, 402, 403, 404, 417 (6 cr max), 420, 421, 434, 436, 498 (sec 20-29).
 - b. OUTSIDE EMPHASIS (3-D and GD) 9 credits, (at least 6 credits must be in 3-D).
 - 3-D** – choose from: any of the courses listed in the 3-D emphasis.
 - GD** – choose from: 206, 207, 309.
5. Capstone, 8 credits: 490 and 491.

Three-Dimensional Emphasis:

1. Studio Art foundation, 12 credits (see above).
2. Art History Foundation, 6 credits (see above).
3. Art history, 6 cr from 370, 371, 372, 374, 375, 378, 380, 382, 383, 385, 386, 387, 388, 389, 390, 391, 392, 393, 396, 397, 398 (sec 40-49), 399 (sec 40-49), 498 (sec 40-49).
4. Studio art courses, 48 credits as follows:
 - a. WITHIN 3-D EMPHASIS, 33 credits from Art 201, 205, 251, 252, 261, 298 (sec 30-39), 305, 353, 354, 355, 361, 398 (sec 30-39), 399 (sec 30-39), 405, 417 (6 cr max), 420, 451, 461, 498 (sec 30-39).
 - b. OUTSIDE EMPHASIS (2-D and GD), 15 credits.
 - 2-D** – (Must take Art 234 and 236). Choose from : any of the courses listed in the 2-D emphasis.
 - GD** – choose from: Art 206, 207, 309
5. Capstone, 8 credits: Art 490 and 491.

Graphic Design Emphasis:

1. Studio Art foundation, 12 credits (see above).
2. Art History Foundation, 6 credits (see above).
3. Art history, 6 credits as follows: (Must take Art 393). Choose 3 credits from: Art 370, 371, 372, 374, 375, 378, 380, 382, 383, 385, 386, 387, 388, 389, 390, 391, 392, 396, 397, 398 (sec 40-49), 399 (sec 40-49), 498 (sec 40-49).
4. Studio art courses, 48 credits as follows:
 - a. WITHIN GD EMPHASIS, 24 credits (Must take Art 206, 207, 308, 309, 311, 410, 412, 413).
 - b. OUTSIDE EMPHASIS (2-D AND 3-D), 24 credits.
 - 2-D** – (Must take Art 215, 234, 236). May choose from any of the 200, 300, or 400 level courses listed in the 2-D emphasis.
 - 3-D** – Choose at least one from any of the 200, 300, or 400 level courses listed in the 3-D emphasis.
5. Design internship, 4 credits as follows: (Must take Art 419 or 4 cr of 417). If 417 is taken for more than 4 credits, up to 3 credits may be applied as credits outside emphasis.

6. Capstone, 4 credits: Art 491.

Art History Minor

Consists of 24 credits:

1. Art 270, 271, 282, 283. Correct prerequisites from this group must be taken before taking corresponding upper level classes (Art 181 cannot be used as a prerequisite).
2. 12 credits of 300 or 400 level art history. Choose from 370, 371, 372, 374, 375, 378, 380, 382, 383, 385, 386, 387, 388, 389, 390, 391, 392, 393, 396, 397, 398 (sec 40-49), 399 (sec 40-49), 498 (Sec 40-49).
3. Distribution:
 - a. At least 6 credits must cover periods prior to the 19th century: 370, 371, 375, 378, 382, 383, 385, 386, 387.
 - b. At least 3 credits must be of a Western topic: 382, 383, 385, 386, 387, 388, 389, 390, 391, 392, 393. At least 3 credits must be of a non-Western topic: 370, 371, 372, 374, 375, 378, 380.
 - c. Art 396, 397, 398 (sections 40-49), 399, (sections 40-49) and 498 (sections 40-49) count for distribution according to the specific subtitle.
 - d. If you're pursuing the B.A. degree with Art Historical Emphasis, you may NOT pursue the Arts History minor.

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 passing the BFA 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 (Studio Art Foundation and Art History Foundation combined), including transfer credits and regardless of any declaration of academic bankruptcy, to maintain your status as an art major and to qualify for the BFA Portfolio Review. The foundation consists of Art 101, 102, 103, 104, and 6 credits of 200 level Art History.

BFA Portfolio Review: Passing the BFA Portfolio Review 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 BFA Portfolio Review only once.**

At the time of the review, you may apply for up to two emphasis areas. If you do not pass the BFA Portfolio Review, you may maintain BA status in the Department of Art and Design. Graduating with a BA degree is contingent upon meeting the specific BA GDR requirements.

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 all art courses. This includes transfer credits and applies regardless of any declaration of academic bankruptcy. For graduation, you must also successfully pass Art 491.

BA Requirement: In order to complete the BA program you must maintain 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 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, 270, 271, 282, 283, and 380. If you wish to test out and 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 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 exam will consist of a specific exercise or series of exercises different from those used in the existing course. In a course with a significant research component, you may be required to do an appropriate project. You may take a test-out/credit-by-exam test only once.

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 department authorization, but is otherwise the same as 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 205. Beginning 3-D Computer Animation. 3 cr. Beginning elements and techniques of three dimensional (3-D) computer animation. Includes solid modeling, time based motion, materials, lighting, and camera work. Prereq: 101, 102 or cons instr.

ART 206. Basic Letterform. 3 cr. Drawing skills in translating letter forms through various media leading to form and symbol development. Prereq: 101 and 102, 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, 102, 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 221. Printmaking Survey I: Intaglio and Relief. 3 cr. Introduction to intaglio and relief printmaking as an expressive art form through demonstrations, practice and readings. Prereq: 103, 104 and cons instr.

ART 222. Printmaking Survey II: Monotype and Lithography. 3 cr. Introduction to monotype and lithographic printmaking as an expressive art form through demonstrations, practice and readings. Prereq: 103 and 104.

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.

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).

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 270(NW). Survey of Asian Art I. 3 cr. Survey of the visual arts of China, Japan, and India from the Neolithic period through the 13th Century CE. Religion, philosophy, and parallel arts are also studied to understand the critical relationship between art and society. GDR: HU1

ART 271(NW). Survey of Asian Art II. 3 cr. Survey of the visual arts of China, Japan, and India from the 13th Century CE to the modern period. Religion, philosophy, and parallel arts are also studied to understand the critical relationship between art and society. GDR: HU1

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 298. Special Topics. 1-3 cr. Introductory level group work in one medium, technique or area. Subtitle/credit vary. May be repeated for credit under different subtitles. Sec 1-9, graphic design; sec 21-29, 2-D; sec 31-39, 3-D; sec 41-49, art history.

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 304. Visual Design for the Screen. 3 cr. Visual design concepts applied to Web and screen-based environments. Consideration of type, image, motion, principles of organizational hierarchy, interaction,

context, and audience. Basic computer experience required. Prereq: 101 and 104, or cons instr.

ART 305. Intermediate 3-D Computer Animation. 3 cr. Elements and techniques of three dimensional (3-D) computer animation. Includes solid modeling, time based motion, advanced material editing, advanced lighting, camera work, and techniques of video integration and video editing. Prereq: 205 or cons instr.

ART 308. Typography. 3 cr. Intermediate design of letterforms and typography through hand and computer created techniques. Aesthetic issues of form and proportion. Historical developments in typographic design and visual communication. Prereq: 206, 207, or cons instr. Pass portfolio review. (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. Pass portfolio review.

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: 308 or cons instr. Pass portfolio review. (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. Intermediate Printmaking. 3 cr. Continued study in printmaking using greater understanding of advanced techniques and concept development to see how the printmaking medium can be used for more effective individualized expression. Prereq: 221 or 222.

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 335/535. Landscape Painting and the Environment. 3 cr. Investigate genre of landscape painting "en pleine aire" (on location) in an opaque medium. Color development. Effects and interactions of human societies with the natural environment. History of landscape painting genre and relationships of geologist and artist. GDR: EL

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

ART 340. Visiting Artist Abroad: Public Art and Journalism. 3 cr. Research diverse cultural images resulting in the execution of public artwork or developing of a studio facility, as a visiting artist at a hosting facility. Research and produce preliminary drawings and execute a public artwork on site. Create personal journals of visual and cultural experiences. Participate as visiting artist at hosting facility and hold workshops with the local student community. Upon returning to UWSP, exhibit artwork inspired by the experience. Prereq: art foundation and/or cons. instr.

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

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.

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.

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 370 (NW). Early Chinese Art and Archaeology. 3 cr. Survey of the art, architecture, and archaeology of early China from the Neolithic period through the Han Dynasty (3rd Century CE). Relevant mythological, historical, and philosophical texts in translation are also considered. Prereq: 270 or cons instr.

ART 371 (NW). Early Imperial Chinese Art. 3 cr. Survey of early imperial painting, architecture, and sculpture from 221 BCE to 906 CE. Topics include funerary arts and the impact of Buddhism. Prereq: 270 or cons instr.

50 Art & Design

ART 372 (NW). Late Imperial Chinese Art. 3 cr. Survey of late imperial Chinese painting, architecture, and sculpture from 906 to 1911 CE. Prereq: 271 or cons instr.

ART 374 (NW). Ancient and Medieval Japanese Art. 3 cr. Survey of Japanese painting, sculpture, and architecture from the Neolithic period through the 17th century. Prereq: 270 or cons. instr.

ART 375 (NW). Early Modern Japanese Painting and Woodblock Prints. 3 cr. Survey of early modern Japanese painting and woodblock prints of the Edo/Tokugawa (1600-1868 CE) and Meiji (1868-1912 CE) periods. Considers influences of traditional Japanese art, and of Chinese and Western art. Prereq: 271 or cons instr.

ART 378 (NW). Art Along the Ancient Silk Road. 3 cr. Explore cultural and artistic connections between China, Central and Western Asia, and the Mediterranean during pre-modern times. Accounts of merchants, monks, and adventurers who traveled the Silk Road will also be studied. Prereq: 270 or cons instr.

ART 380(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 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.

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.

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.

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.

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.

ART 388. European Art: Neo-Classicism through Realism. 3 cr. Survey of European art from Neo-Classical period through mid-19th century. Emphasis on relationships between contemporary society and politics, artistic philosophies, and artistic style. Artists and styles include Neo-Classicism, David, Ingres, Romanticism, Goya, Gericault, Delacroix, Constable, Turner, Realisme, Corot, Courbet, Millet, Daumier, etc. Prereq: 283.

ART 389. Rise of Modernism in European Art. 3 cr. Historical survey of European art and its social, political and philosophical climate from inception of modernist artistic philosophies to their fruition in the early 20th century. Artists and styles include Whistler, Manet, Impressionism, Post-Impressionism, figural expressionism, Orphism, Fauvism, Munch, cubism, die Brucke, die Blaue Reiter, etc. Prereq: 283.

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.

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, Synchronists, O'Keeffe, the New York School, et al.) Prereq: 283.

ART 392. American and European Art Since World War II. 3 cr. Survey of all manifestations of contemporary art. Prereq: 283.

ART 393. Graphic Design History. 3 cr. History of development of graphic design. Prereq: two of the following: 270, 271, 282, or 283; or cons instr.

ART 396(NW). Non-Western Art History in International Programs. 3 cr. Advanced art history during UWSP semester abroad or study tour in countries and cultures outside of the Judeo-Christian tradition of Western Europe, North America, etc. Subject varies by destination and resources. Emphasis on art and culture of area visited. Art 396/397 may be repeated under different subtitles up to a total of 3 times (9 cr). Prereq: Admis to UWSP study tour or semester abroad. (270, 271 recommended).

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. Art 396 and/or 397 may be repeated under different subtitles up to a total of 3 times (9 cr). 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. May repeat for 9 cr max. Prereq: Vary by topic. Sec 1-9, graphic design; sec 21-29, 2-D; sec 31-39, 3-D; sec 41-49, art history.

ART 399. Special Work. 1-3 cr. Upperclass art majors 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. Sec. 1-9, graphic design; sec 21-29, 2-D; sec 31-39, 3-D; sec 41-49, art history. Prereq: Pass BFA portfolio review or be admitted to the BA Art History Emphasis. Art History minors may take Art 399 sec. 41-49 without portfolio review, and IA and Arts Management majors may do so for projects associated with participation in International Programs.

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. Pass portfolio review.

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. Pass portfolio review.

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. Pass portfolio review.

ART 404. Advanced Visual Design for the Screen cr. Advanced visual design theory and concepts for Web and screen-based art. Includes consideration of typography, image, motion, principles of organizational hierarchy, interaction, context, and audience. Prereq: 304 or cons instr. Pass portfolio review.

ART 405. Advanced 3-D Computer Animation. 3 cr. Elements and techniques of three dimensional (3-D) computer animation. Includes solid modeling, time based motion, advanced material editing, advanced lighting, camera work, and advanced techniques of video integration and editing. Prereq: 305 or cons instr. Pass portfolio review.

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 processes, emphasizing skill, craftsmanship, visual aesthetics. Prereq: 311 or cons instr. Pass portfolio review. (II)

ART 412. Advanced Problem Solving in Package 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: 311 or cons instr. Pass portfolio review. (II)

ART 413. Advanced Problem Solving in Print Design. 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: 311 or cons instr. Pass portfolio review. (II)

ART 417. Internship in International Programs. 3-12 cr. Internship experience during UWSP semester abroad, coordinated by UWSP International Programs. If credit for 417, then may not earn credit in either Art 419 or 420. Prereq: Min 15 credits studio courses beyond foundation, cons chair. Pass portfolio review.

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. Pass portfolio review.

ART 419. Design Internship. 1-4 cr. Professional international, national or regional internship experience in graphic design industry; credit approved on submission of portfolio and written description of experience, in consultation with the internship provider. Class meetings to discuss, present, and document internship; and explore professional design experiences. Prereq: cons instr.

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. Pass portfolio review.

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. Pass portfolio review.

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. Pass portfolio review.

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

ART 451. Advanced Sculpture. 3-6 cr. Advanced study in sculpture with 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. Pass portfolio review.

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. Pass portfolio review.

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/ideas. Concurrent development of student senior portfolio. Prereq: Sr st in BFA art major or cons instr. Pass portfolio review. (I)

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 Carlsten Gallery or participate in the Graphic Design Senior Portfolio Review; faculty evaluation of exhibition. (II) Prereq: Sr st, BFA art major, 490 required for 2D and 3D emphasis. Pass portfolio review.

ART 492. Senior Research Project in Art History. 3 cr. Produce a detailed, advanced scholarly research paper and make a public presentation on an art historical topic agreed to by the professor(s). Prereq: admission to the Art History emphasis area and at least 15 cr. completed in 300-level or higher Art History courses.

ART 498. Special Topics. 1-3 cr. Advanced level group work in one medium, technique, or area. Subtitle/credit vary. May be repeated for credit under different subtitle. Prereq: Vary by topic. Pass portfolio review. Sec 1-9, graphic design; sec 21-29, 2-D; sec 31-39, 3-D; sec 41-49, art history.

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. See full course description in indicated (xx-xx) catalog.
401 Professional Photographic Techniques, 3 cr, (07-09)

Course in Art Education

A ED 322. Techniques in Elementary School: Art. 3 cr. Methods, materials, and philosophy.

Arts Management

(College of Fine Arts and Communication)

Room 101, Noel Fine Arts Center

Phone: 715-346-4920

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 advisor, 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)

- Business**, 12 credits: Accounting 210; Business 320, 330, and 340.
- Communication**, 12 credits: Communication 221, 230, 334 and 431.
- Creative arts:** In consultation with the advisor, select 12 credits of courses from music, theatre, dance, art.
- Arts management**, 20 credits required: Arts Management 195, 280, 380, 395, and 480.
- Minor:** Choose a minor in consultation with the arts management advisor. Courses in the minor cannot count toward creative arts (item 3 above).

Admission Procedures and Academic Standards

- The arts management major is open to all students.
- To declare a major in arts management fill out the appropriate form in the Arts Management Office, Room 101, Noel Fine Arts Center.
- When you enroll you will be a "pre-arts management major." The coordinator of arts management serves as your advisor.
- 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.
- In order to continue in the program you must have 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.
- 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.
- 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. 2 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)

52 Astronomy

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)

Katherine Jore, Chair of Physics and Astronomy
Room B-109, Science Building
Phone: 715-346-2139
E-mail: physics@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. Examine content and evolution of the universe, including birth and death of stars, nature of galaxies, and mystery of quasars and black-holes, 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

Astronomy Latent Courses: Not offered recently. See full course description in indicated (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)

796 Independent Study, 1-4 cr, (07-09)

ATHLETIC TRAINING

See *Health, Exercise Science, and Athletics*.

AUDIOLOGY

See *Communicative Disorders*.

BILINGUAL EDUCATION

See *Foreign Languages*.

Biochemistry (College of Letters and Science)

Chris Yahnke, Chair of Biology Department
Room 167A, College of Natural Resources Building
Phone: 715-346-2455
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Web: www.uwsp.edu/biology

James G. Brummer, Chair of Chemistry Department
Room D129A, Science Building
Phone: 715-346-2888
E-mail: chemistry@uwsp.edu
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Biology faculty: T Barta, R Bell, K Bodensteiner,

D Caporale, R Crowther, V Freire, E Gasque, I Girard, C Hartleb, J Hubbard, T Huspeni, E Judziewicz, R Rosenfield, D Sandhu, R Schmitz, M Seiler, S Sepsenwol, E Singaas, J Sipiorski, E Stern, Q Sun, E Wild, C Yahnke, P Zellmer.

Chemistry faculty: R Badger, N Bowling, J Brummer, L Cole, K Czerwinski, J D'Acchioli, J Droske, P Hladky, J Lawrence, S Ma, P O'Connor, GJ Shulfer, R Tanke, A Timerman, S Wright, M Zach, T Zamis.

Definition: Biochemistry combines knowledge of biology and chemistry to explain life processes in terms of molecular structure and chemical reactions within living cells.

This interdisciplinary major has a chemistry-based curriculum coupled with a significant biology component. The role of a biochemist is to work for understanding of organismal function and diversity in the principles and concepts of chemistry and physics, as well as in the structure, mechanisms and chemical processes that are common to all organisms. The biochemistry major links biological sciences like molecular biology and genetics to physical sciences like chemistry and physics. In addition the biochemistry major combines the interdisciplinary foundation inherent to biochemistry with all the advantages of a liberal arts education.

NOTES:

1. Please read all the NOTES under the biology AND chemistry sections of this catalog. All items under both sections apply to the biochemistry major.
2. The biochemistry 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 (biochemistry), 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 biochemistry and natural resources, you may graduate from the College of Letters and Science or the College of Natural Resources.

3. Courses in biochemistry, biology, and chemistry are open to all students who meet the prerequisites.

Biochemistry Major

Consists of a minimum of 81 total credits (76 credits if taking Chem 117), 22 of which count toward general degree requirements.

1. Required biochemistry core and collateral courses, 73 credits (68 credits if taking Chem 117):
 - a. Biology 130, 160, 210, 281 or 285, 314, 318, 319, 490.
 - b. Chemistry 105 and 106 or 117, 248, 325, 326, 333, 365.
 - c. Mathematics 120, 355.
 - d. Physics 203, 204.
2. Required electives, 8 credits from: Biology 310, 312, 333, 351, 399, 415, 498 (immunology), 498 (protein purification); Chemistry 335, 336, 395, 425, 499 (2 cr max); Math 121, 222. These courses may apply to one of the emphasis areas below.
3. Areas of emphasis (optional): You may use these recommended course groupings to personalize your program after consulting with your advisor.
 - a. Biochemistry/chemistry/biophysics: Chemistry 335, 336; Math 121, 222.
 - b. Biotechnology/molecular biology/genetics: Biology 310, 312, 333, 415, 498 (immunology), 498 (protein purification).
 - c. Medical/dental/pharmacology/toxicology: Biology 285, 312, 333, 498.
 - d. Veterinary: Biology 281, 333, 498.

Academic Standards and Policies

To be admitted, retained, and approved for graduation as a biochemistry major, you must have a minimum cumulative grade point average of 2.50 for all courses taken within the major, 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).

No more than 6 credits of D work in biology, chemistry, and biochemistry courses will be counted toward the completion of the biochemistry major. All grades of D or F are used to compute the cumulative GPA in the major. If a course is repeated, the last grade is the grade used in the GPA calculation. Courses with grades of D or F may be repeated only with the consent of the chair of the Biology or Chemistry Departments and only if a seat is available after the regular registration period.

Test-Out and Credit-by-Exam Policy

The credit-by-exam and Advanced Placement (AP) exam policies of the Biology Department pertain to biology courses. The credit-by-exam policies of the Chemistry Department apply to chemistry courses. You may take a test-out exam only once.

Biology (College of Letters and Science)

Chris Yahnke, 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, C Hartleb, J Hubbard, T Huspeni, E Judziewicz, W LeGrande, R Rosenfield, D Sandhu, R Schmitz, S Sepesenwol, E Singsaas, E Stern, E Wild, C Yahnke, P Zellmer.

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, 353, 355; or two from Biology 308, 339, 345, 347.
 - b. One course from Biology 281, 285, 360, 361, 362, 367, 370, 373, 374, 375, 376, 377, 378, 379, 387, 388; Water 387.
 - c. One course from Biology 309, 312, 314, 317, 323, 326, 333, 335, 386, 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.

4. Collateral courses:
 - a. Chemistry 105 and 106, or 115 and 116.
 - b. Math 111 or 120 or 355.
5. Elective credits to reach a minimum of 34 biology credits. Select from additional biology courses, Chemistry 365, Water 387, 481, 483.
6. Biology majors must complete at least 12 biology credits at UW-Stevens Point.
7. 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

54 Biology

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:

1. Biology 130 and 160.
2. Any two of the following categories:
 - a. Biology 210.
 - b. Biology 305.
 - c. Biology 281, or 285, or 314, or 351.
3. Elective credits in biology (may include Chemistry 365, Water 387, 481, 483).

Biochemistry

See listing of the major earlier in this section.

Conservation Biology Minor

See *Natural Resources-Wildlife*.

Ethnobotany Minor

Virginia Freire, Coordinator
Room 302, College of Natural Resources Building
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E-mail: vfreire@uwsp.edu

Definition: Ethnobotany, a combination of many disciplines but mainly biology and anthropology, is the study of plant use by various cultures for medicine, food, religious rituals, construction, tools, clothing, art, hunting, etc. Its importance has increased as natural habitats have decreased, threatening plants and the traditional knowledge of their uses.

The minor consists of a minimum of 26 credits including:

1. Anthropology 101 or 110.
2. One course from Anthropology 335, 339, 345.
3. Anthropology 380.
4. One course from Anthropology 320, English 392, Philosophy 380, Religious Studies 316.
5. Biology 130, 342, 353, 399 (Field Work in Ethnobotany).

Academic Standards and Policies

Your status as a biology major depends on several factors.

1. If you are a new freshman and have been admitted as an approved biology major, a biology faculty member will advise you.
2. 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 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 advisor 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 advisor 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 protein purification); 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 advisor 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, and speech. Contact the appropriate preprofessional advisor for suggested electives and requirements as early as possible.

Prechiropractic: At least 90 credits to include Biology 285, 333, 387; 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.

Predental: 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.

Premedical: 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.

Prenursing: For Pre-nursing majors, you will be assigned an advisor through the Department of Health Sciences, College of Professional Studies. A course of study will be designed to meet the prerequisite requirements for the professional nursing program of the university from which you intend to graduate. Common prerequisite courses include biology, chemistry, psychology, and math (statistics). Please refer to <http://www.uwsp.edu/news/uwspcatalog/pre-nursing.htm> for additional information.

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, 387; Chemistry 365; Psychology 110, 260.

Prephysician's Assistant: Biology 160, 285, 333, 387; 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 (I,II,SS)

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 (I, II)

BIOL 130. Introduction to Plant Biology. 5 cr. General biological principles with emphasis on growth, reproduction, structure, and functions of plants; morphology (form and structure) of typical plants. 3 hrs lec, 4 hrs lab per wk. GDR:NS (I, II)

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. Addl 2-hour test sections 4 times during the semester. GDR:NS (I, II)

BIOL 202. Human Reproduction. 3 cr. Anatomical, physiological, and developmental aspects of human reproduction. Does not count toward biology major/minor. GDR:NS-BS (I, II)

BIOL 210. Principles of Genetics. 3 cr. General principles of heredity and variation of plants and animals, including humans. Prereq: 101, 130, or 160. (I, II)

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. Does not count for graduation or major if Biology 285 (or equiv) is counted. (I, II)

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 (I, II)

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. (I, II)

BIOL 306. Ecological Methods. 1 cr. Apply 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. (I, II)

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. Field trips. Prereq: 305 or cons instr. (II)

56 Biology

- BIOL 309/509. Field Biology.** 3 cr. Field trips. Study, collect, prepare, 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. (SS)
- 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. (I)
- 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. (I)
- BIOL 312/512. Human Genetics.** 3 cr. Study of human genes, their functions, mode of inheritance and mutations causing disorders. Includes human pedigree analyses, genetic testing, clinical manifestations and treatment, gene therapy, and bioethical issues. 2 hr lec, 2 hr lab per wk. Prereq: 210. (II)
- 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. (I)
- 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. (II)
- BIOL 318/518. Principles of Molecular Biology.** 3 cr. Study of gene structure, function and control at the molecular level. Use molecular techniques to analyze nucleic acid and protein activity and diversity. 3 hrs lec per wk. Prereq: Biology 210; Chemistry 106 or 116; or cons instr. (I)
- BIOL 319/519. Techniques in Molecular Biology.** 1 cr. Laboratory to apply molecular techniques to investigate a variety of biological questions. Techniques may include DNA/protein fingerprinting, RFLP, blotting, PCR, and DNA sequencing. 3 hrs lab per wk. Prereq: Biology 210; Chemistry 106 or 116; or cons instr. (I)
- 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 museum or nature center professions. 6 hrs lab per wk. Prereq: Cons instr. (II)
- 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. (SS)
- 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. (A, II)
- 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/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, 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. (I, II, SS)
- 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. (A, I)
- 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. (A, I)
- 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. (I)
- 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. (I, II)
- 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. (A, I)
- 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. (II)
- 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. (II)
- BIOL 353/553. Ethnobotany.** 3 cr. Impact of plants on human culture with emphasis on local useful plants. Field trips, hands-on lab activities, movies, readings, discussion, final project. 2 hrs lec, 2 hrs lab per wk. Prereq: 130. (A, I)
- 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. (I)
- 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. May not earn credit in both BIOL 361 and WATR 361. Prereq: 101 or 160. (I)
- 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. (I)
- BIOL 370/570. Comparative Vertebrate Anatomy.** 4 cr. Structure and evolutionary relationships of vertebrates. 2 hrs lec, 4 hrs lab per wk. Prereq: 160. (II)
- BIOL 373/573. 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, 370 or 387 are recommended but not required). (II)
- 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. (I, II)
- 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. (II)
- 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. (II)
- 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. (II, SS)
- BIOL 378/578. Mammalogy.** 3 cr. Taxonomy, zoogeography, life history, ecology of mammals; field work. 2 hrs lec 2 hrs lab per wk. (I)
- 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. (SS)
- 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. (A, II)
- 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. (A, II)
- BIOL 386/586. Aquaculture/Fish Culture.** 3 cr. Introduction to the culture of finfish, methods of production, environmental and ecological considerations, selective breeding, nutrition, diseases, processing and marketing. 2 hrs lec, 2 hrs lab per wk. May not earn credit in both Biol 386 and Water 386. Prereq: 101 or 160, and 210. (I)

BIOL 387/587. Human Anatomy (formerly 286). 4 cr. Examine human anatomy using models, X-rays, charts, computer animations, and prosected cadaver demonstrations. Complements Biol 285 to provide general background in human structure and function. For students preparing for health care careers. 3 hrs lec, 3 hrs lab per wk. Prereq: 281 or 285 or con reg in 281 or 285. (I, SS)

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. (A, II)

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. (I, II, SS)

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. (II)

BIOL 490/690. Seminar in Molecular Biology. 1 cr. Studies and discussions of biological problems. Only one 490 credit counts toward the major. (I, II)

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. (I, II)

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 intern committee and instr. (SS)

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 798. Portfolio. 2-4 cr. Submission and analysis of appropriate publications, professional activities, and accomplishments. Prereq: Cons portfolio/grad committee.

BIOL 799. Thesis. 2-6 credits.

Biology Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

- 140 Edible and Poisonous Plants, 2 cr, (03-05)
- 320/520 Biological Techniques, 4 cr, (05-07)
- 321/521 Biological Computing, 3 cr, (05-07)
- 339/539 Bryology and Lichenology, 2 cr, (03-05)
- 344/544 Trees and Shrubs, 3 cr, (07-09)
- 357 Principles of Plant Community Distribution, 1 cr, (03-05)
- 360/560 Invertebrate Zoology, 4 cr, (99-01)
- 372/572 Biology of Vertebrates, 1-4 cr, (05-07)
- 381/581 Comparative Animal Physiology, 3 cr.
- 790 Graduate Seminar, 1 cr, (07-09)

Courses in Biology Education

BIED 398. Student Teaching in Biology. Variable cr; pass/fail. Observe and teach 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; 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. 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*.

BROAD-FIELD SOCIAL SCIENCE

See *Social Science*.

Business and Economics (College of Professional Studies)

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Room 428, College of Professional Studies

Phone: 715-346-3874

Sally Trainer, Advising Director

Peer Advising Office

Room 476, College of Professional Studies

Phone: 715-346-2384

The Division of Business and Economics (DBE) offers programs in (1) accounting, (2) business administration, and (3) economics.

Faculty members of the division participate in research related to their areas of academic interest. In addition, each of us 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 accounting, business administration, economics, 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 you to participate in internships for experience in actual business environments.

We in the Division of Business and Economics make every effort to notify current and prospective majors of new program standards. Depending on the nature of the program change, we may do so using email, Web pages, orientation sessions, the department advising office, faculty advisors, the catalog, and letters.

Admission to the Division of Business & Economics Majors

All our majors (accounting, business administration, economics-social science, and economics-business economics) are limited enrollment majors. Because we have limited space in our program, we cannot guarantee everyone admission.

We recommend you declare your intent to pursue your DBE major:

- when you apply for admission to UWSP
- when attending a freshman orientation meeting
- when attending a transfer-student orientation meeting
- or when you attend an "Introduction to the Major" session offered by the DBE Advising Office.

We do not require that you declare your intent to become an accounting, business or economics major but highly recommend that you do so. As an intended major, you can receive specialized advising from the Division Advising Office and regular updates on events and deadlines.

You must apply for formal admission to your selected DBE major before completing 18 credits in the major. You are eligible to apply once you have completed at least 45 credits toward your UWSP degree. If you wish to request consideration of exceptional circumstances, do so in writing to the DBE Admissions Committee.

We have designed the admission policies for the Division of Business and Economics to support your success in your major. See the descriptions of specific majors for admissions requirements. See the Division of Business & Economics Advising Office and web site for application procedures, forms, and deadlines.

To switch majors or to pursue a second major within the division, apply for that major. See the descriptions of specific majors for admissions requirements. If you are switching majors within the DBE or adding a second DBE major, you may apply even if you already have over 18 credits in the new major, as long as you have met all other admission requirements.

Academic Standards for the Division of Business & Economics

The following academic standards apply to all division majors (accounting, business administration, economics-social science and economics-business economics).

- In-major GPA:** If you have a major in our division (accounting, business, economics-social science, or economics-business economics), your in-major GPA is calculated based on **all courses** counting towards your major; this includes courses from other departments as well as from the DBE.

If you switch from one DBE major or minor to another, only courses applicable to the new program are included in your new in-major GPA calculation.

If you are a transfer student, all your grades (including grades of D and F) earned at another campus for all classes required for a DBE major **are** included in the calculation of your in-major GPA.

- Satisfactory Progress:** As a student enrolled in a DBE major GPA standard (2.5 for Accounting or Business Administration and 2.25 for Economics) by the time you have completed 18 credits in your major.

Also maintain reasonable and satisfactory progress in completing the requirements of the major. Issues related to reasonable progress will be decided by the department chair.

If you have not attained the required in-major GPA by the time you have completed 18 credits in the major, you will be dropped from the major and will not be allowed to re-declare the major.

After you have completed 18 credits in your major, maintain your in-major GPA in good standing. If your in-major GPA drops below that major's standard for two consecutive regular semesters, you will be dropped from the major and will not be allowed to re-declare that major.

If you are dropped from your DBE major, you may submit a written petition for reinstatement to the Admissions Committee.

If you are having trouble maintaining an adequate GPA we encourage you to seek additional assistance from the Tutoring-Learning Center (TLC).

- Repeating courses:** You may request up to three courses in your DBE major in which you earn a D+, D, or an F. To do so, obtain on-line authorization to repeat from your advisor and the chair of the department in which the courses are offered BEFORE registering for the courses. If you repeat a course at UWSP, only the last grade is used in GPA calculations. Permission to repeat a DBE course is only granted after the close of the regular registration period.

See the policy on repeating courses in the **Academic Information** section of this catalog. **NOTE:** You may repeat, at other institutions, courses in which you received a grade of F but NOT courses in which you received a grade of D. The repeated course taken at another institution will satisfy the requirement left unsatisfied by the F. The original F will remain on your transcript.

- Pass/fail courses:** Any courses you take as pass/fail do not count toward any DBE major or minor.
- Degree and Major Requirements:** In addition to the requirements of your selected major(s), satisfy the General Degree Requirements (GDRs) of your degree (either BA or BS). See the **Bachelor of Arts General Degree Requirements** and **Bachelor of Science General Degree Requirements** sections of this catalog for information on the requirements for each degree.

Regardless of the type of degree earned, the requirements for any DBE major are the same.

The Test-out and Credit-by-Exam Policy

You may earn credit-by-exam for Econ 210 and 211 through the appropriate CLEP examination. Register and pay fees for CLEP exams through the UWSP Testing Service. To receive credit, score in the 50th percentile or higher on the appropriate exam.

For all other 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.

Abbreviations:

Acct = Accounting; Bus = Business
 Comm = Communication
 CIS = Computer Information Systems
 DBE = Division of Business and Economics
 Econ = Economics; FOR = Forestry; Geog = Geography
 Math = Mathematics; NRES= Natural Resources;
 Psyc = Psychology; WSTE = Waste

ACCOUNTING

Faculty: C Konieczki, W Love, W Maas, C Schalow

Professional Certifications

If you're majoring in accounting, we encourage you 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 (the CMA and CIA exams may be taken during the senior undergraduate year), and achieving professionally related experience. Professional organizations grant these certifications. Contact any accounting faculty member for more information.

In the courses required for your accounting major, you will prepare for the CMA exam, which the Institute of Management Accounts administers, and the CIA exam, which the Institute of Internal Auditors administers.

Before taking the CPA examination in Wisconsin, complete 150 semester hours of coursework. The additional credits may be either undergraduate or graduate credits.

Admission to the Accounting Major

You must apply for admission to the Accounting major before you complete 18 credits towards the major. You are eligible to apply once you have completed at least 45 credits toward your UWSP degree. You must be admitted to the accounting major to register for some upper-level courses and to graduate with an accounting major.

Once you are accepted as an accounting major, you can receive specialized, one-on-one advising from division faculty or staff.

Minimum requirements: We encourage you to apply as soon as you have completed all of the following 9-10 credits with at least a 2.25 GPA:

- a) One calculus course: Math 111 or 120 (3-4 credits)
- b) Econ 210 (3 credits)
- c) Acct 210 (3 credits)
- d) CIS 102 (spreadsheet) (1 credit)

If you are a transfer student: Apply before you complete 18 credits in the accounting major OR during your first semester at UWSP.

Exceptions: If you wish to request consideration of exceptional circumstances, do so in writing to the DBE Admissions Committee.

Academic Standards for the Accounting Major and Minor

To graduate with a major or minor in accounting, successfully complete all required courses in the major or minor and achieve a cumulative grade point average of 2.5

or higher in all major/minor required courses. See **Academic Standards for the Division of Business & Economics** for more information on GPA requirements and for the Division of Business & Economics repeat policy.

The Accounting Major

Successfully complete a minimum of 65-67 credits in categories 1 through 4 below:

1. **Foundation:** Complete 16-17 credits **BEFORE** taking any additional 300-400 level courses, including "core" courses.
 - a. One calculus course: Math 111 or 120 (3-4 credits)
 - b. CIS 102 (spreadsheet) (1 credit)
 - c. Acct 210 and 211 (6 credits)
 - d. Econ 210 and 211 (6 credits)
2. **Business Core:** 15-16 credits: Math 355 or other approved statistics course (3-4 credits); Bus 320, 340, 350, 360.
3. **Accounting Core:** 28 credits: Acct 310, 311, 321, 330, 331, 370, 400, 410, 420, 450.
4. **Electives,** 6 credits: two courses from Acct 390, 490, 497; Bus 341, 352, 353.

The Accounting Minor

You may declare the accounting minor by submitting the DBE Change Major form from the DBE webpage to the DBE Advising Office. Admission to the accounting minor is available to all students but does not guarantee access to all upper-level courses.

Successfully complete 24 credits:

1. **Required core,** 21 credits: Acct 210, 211, 310, 321, 330, 370; Bus 350.
2. **Electives,** 3 credits: Acct 311 or 331.

BUSINESS ADMINISTRATION

K Bahr, D Gillo, CR Marshall, E Martin, M Meyers, B Mihm, G Mullins, D Schalow.

Admission to the Business Administration Major

You must apply for admission to the Business Administration major before you complete 18 credits toward the major. You are eligible to apply once you have completed at least 45 credits toward your UWSP degree. You must be admitted to the business administration major to register for some upper-level courses and to graduate with a business administration major.

Once you are accepted as a business administration major, you can receive specialized, one-on-one advising from the division faculty or staff.

Minimum requirements: We encourage you to apply as soon as you have completed all of the following 9-10 credits with at least a 2.25 GPA:

- a) One calculus course: Math 109, 111 or 120 (3-4 credits)
- b) Econ 210 (3 credits)
- c) Acct 210 (3 credits)

If you are a transfer student: Apply before you complete 18 credits in the business administration major OR during your first semester at UWSP.

Exceptions: If you wish to request consideration of exceptional circumstances, do so in writing to the DBE Admissions Committee.

60 Business and Economics

Academic Standards for the Business Administration Major and Minor

To graduate with a major or minor in business administration, successfully complete all required courses in the major or minor and achieve a cumulative grade point average of 2.5 or higher in all your major/minor courses. See *Academic Standards for the Division of Business & Economics* for more information on GPA requirements and for the Divisions of Business & Economics repeat policy.

Business Administration Major

Successfully complete a minimum of 45-47 credits in categories 1 through 4 below as well as a minor, second major, or area concentration as described below in category 5:

1. **Foundation**, Complete 24-26 credits BEFORE taking additional 300-400 level courses including “core” courses.
 - a. One calculus course: Math 109, 111 or 120 (3-4 credits).
 - b. Economics 210 (GDR: SS1) and Acct 210 (6 credits).
 - c. Economics 211 (GDR: SS1) and Acct 211 (6 credits).
 - d. Math 355 or other approved statistics course (3-4 credits).
 - e. Bus 320 and 330 (6 credits).
2. **Core**, 12 credits: Bus 340, 350, 360, 370. **NOTE:** You may take only one of these classes in conjunction with Bus 480.
3. **Electives**, any 6 credits in 300-400 level courses with the exception of Bus 490, 497, 498, 499. We recommend you take multiple courses in one interest area to develop higher levels of expertise.

Classes you take as part of areas of concentration (a) through (e) below (finance, insurance, and real estate (FIRE), management, marketing, entrepreneurship, international business) satisfy this requirement.
4. **Capstone course**, 3 credits: Take Bus 480 during your final semester with instructor approval. You may not take a foundation course in conjunction with 480. You may take only one core course in conjunction with 480.

If you have a concentration in entrepreneurship, substitute Bus 421, Advanced Entrepreneurship, for Bus 480.
5. **Minor, second major, or area of concentration:** In addition to required courses for the major, complete ONE of the following: (1) a minor, (2) a second major, or (3) an area of concentration (of not less than 18 credits that have been approved by the Division of Business and Economics).

Minor: You may use any UWSP minor other than the business minor to satisfy this requirement. We encourage you to consider a minor in accounting, or economics.

Second major: You may use any UWSP major other than the business major to satisfy this requirement. We encourage you to consider a major in accounting, economics-social science, or economics-business economics.

Areas of concentration: Areas of concentration (a) through (e) below (finance, insurance, and real estate [FIRE], management, marketing, entrepreneurship,

international business) require 24 credits. At least 15 of these credits must be business courses. Of the remaining 9 credits, you may take up to 6 credits from the listed courses outside the DBE. Earn at least a 2.5 GPA in courses in the concentration.

To complete a second area of concentration, complete at least 15 additional credits.

These are approved areas of concentration:

- a. **FIRE (Finance, Insurance & Real Estate)**, 24 credits. Select 24 credits from: Bus 343, 352, 353, 356, 357, 390, 455, 493, 496; Econ 272, 360.
- b. **Management**, 24 credits:
 - 1) Required: Bus 322.
 - 2) Select 21 credits from: Bus 321, 324, 325, 326, 327, 341, 342, 390, 493, 496; Econ 330, 340, 345, 346, 370, 420; Comm 342, 343, 345, 349 (Prereq for these Comm courses is Comm 240, which satisfies the GDR: SS2 requirement); Psyc 345 (Prereq is Psyc 110 which satisfies the GDR: SS1 requirement).
- c. **Marketing**, 24 credits:
 - 1) Required: Bus 331, 337, 338.
 - 2) Select 15 credits from: Bus 335, 336, 339, 493, 496; Econ 330, 340; Comm 336.
- d. **Entrepreneurship**, 24 credits:
 - 1) Required: Bus 321, 331, 421; Econ 272.
 - 2) Select 12 credits from: Acct 330 (Pre/Coreq Acct 310), 331 (Prereq Acct 330); Bus 324, 335, 493, 496; Econ 340, 345, 370, 420.
- e. **International Business**, 24 credits:
 - 1) Required: Bus 327, 357, and an international experience selected from 493, 496, or other approved international experience.
 - 2) Select 15 credits from: Bus 339, 342, 390, 496; Econ 362, 365; Geog 325 (GDR NW & SS1), 327 (GDR NW & SS1), 328 (GDR SS1); Poli 388; Foreign Language Courses numbered above 200 (Limited to 2 classes in the same foreign language; language placement does not satisfy this requirement).
- f. **Forest Recreation:**
 - 1) Required: FOR 330, 334, 335, 381 (3 cr), 394.
 - 2) Select 6-9 credits from: FOR 385, 480; NRES 367, 368, 382, 383, 388, 474, 490.
- g. **Soil Science**, 18 credits:
 - 1) Required: NRES 251, 373; Soil 461.
 - 2) Select remaining credits from: Soil 362, 363, 364, 365, 465, 493; NRES 335, 336, 337; WSTE 380, 476, 488, and other related courses approved by the College of Natural Resources Associate Dean.
- h. **Foreign Language:** Cross-cultural experience for students planning to work in international or multicultural environments. Emphasizes practical language skills and knowledge of appropriate cultural forms and behavior.
 - 1) **French**, 20 credits: French 211-212, 313, 314, 318, and 317 or 340.
 - 2) **German**, 20 credits: German 211-212, 313, 314, 318, and 317 or 340.
 - 3) **Spanish**, 20 credits: Spanish 211-212, 313, 314, 318, and 317 or 340.

- i. **Wood Products Industry**, 18 credits:
- 1) At least 8 credits from FOR 370, 428, 429 (at least 6 cr), 499; Bus 496, 497, 498, 499 (forest products subtitle).
 - 2) At least 5 credits from FOR 232, 322, 335, 381; NRES 150, 151, 320, 330, 357, 490; PSCI 101.
 - 3) Three credits from Bus 321, 324, 336, 341; Econ 342.

Business Administration Minor

Successfully complete 24 credits:

1. Required: Acct 210, Econ 210, and Bus 320 and 330.
2. Electives: Minimum of 12 credits in business administration courses at the 300-400 level not including Bus 497, 498, 499.

Collaborative Program

UW-Marathon in Wausau has joined with UW-Stevens Point to offer a bachelor's degree with a major in business administration. Students can attend classes at UW-MC. A combination of face-to-face instruction and distance learning technologies are 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 College of Professional Studies Continuing Education office at 715-346-4324..

ECONOMICS

Faculty: R Cray, J Davis, T Hofer, K Neuman, HS Wallace,

Admission to the Economics Major: Social Science and Business Economics Option

You must apply for admission to the Economics major before you complete 18 credits towards the major. You are eligible to apply once you have completed at least 45 credits toward your UWSP degree. You must be admitted to the economics major to register for some upper-level courses and to graduate with an economics major.

Once you are accepted as an economics major, you can receive specialized, one-on-one advising from division faculty or staff.

Minimum requirements: We encourage you to apply as soon as you have completed all of the the following 9-10 credits with at least a 2.25 GPA:

- a) One calculus course: Math 109, 111 or 120 (3-4 credits)
- b) Econ 210 (3 credits)
- c) Econ 211 (3 credits)

If you are a transfer student: Apply before you complete 18 credits in the economics major OR during your first semester at UWSP.

Exceptions: If you wish to request consideration of exceptional circumstances, do so in writing to the DBE Admissions Committee.

Academic Standards for the Economics Major and Minor

To graduate with a major or minor in economics, successfully complete all required courses in the major or minor and achieve a cumulative grade point average of 2.25 or higher in all your major/minor courses. See *Academic Standards for the Division of Business &*

Economics for more information on GPA requirements and for the Division of Business & Economics repeat policy.

Economics Major: Social Science Option

Successfully complete a minimum of 39-41 credits in categories 1 through 3 below.

1. **Foundation:** Complete 15-17 credits BEFORE taking "core" courses.
 - a. **Theoretical and institutional**, 9 credits: Econ 210, 211, Acct 210.
 - b. **Quantitative**, 6-8 credits: Math 355 or other approved statistics course and Math 109, 111 or 120.
2. **Core:** 9 credits: Econ 350, 360, 361
3. **Electives:** 15 credits in additional economics courses, NOT including Econ 100. Bus 352 & 353 both count as economics electives.

If you plan to pursue graduate work in economics, we advise you to take Math 120 and 121 in place of 109.

Economics Major: Business Economics Option

Successfully complete a minimum of 51-53 credits in categories 1 through 3 below.

1. **Foundation:** Complete 21-23 credits BEFORE taking "core" courses.
 - a. **Theoretical and institutional**, 9 credits: Econ 210, 211; Acct 210.
 - b. **Quantitative**, 6-8 credits: Math 355 or other approved statistics course and Math 109, 111 or 120.
 - c. **Business**, 6 credits: Bus 320, 330.
2. **Core:** 15 credits.
 - a. **Economics**, 9 credits: Econ 350, 360, 361.
 - b. **Business**, 6 credits: Take 2 of the following 3 courses: Bus 350, 360, 370 or equivalent (e.g. Acct 370).
3. **Electives:** 15 credits. Take 5 of the following courses (up to 6 credits non-Economics courses): Econ 272, 311, 315, 330, 340, 345, 346, 365, 370, 374, 420, 493, 497, 498, 499; Bus 352, 353, 390 (or Acct 390).

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 are seeking teacher certification in economics, complete a minimum of 34 credits in courses designated "Economics." We recommend you take History 176 and 177 as electives or in partial fulfillment of the general degree requirements. Also take Natural Resources 370.

Because 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

Successfully complete 21-22 credits:

1. **Foundation:** 9-10-credits: Econ 210, 211, Math 355 or other approved statistics course.
2. **Electives:** 12 credits of additional economics courses, NOT including Econ 100. Both BUS 352 and BUS 353 count as economics electives.

62 Business and Economics

3. **Economics minor for teacher certification:** Complete at least 24 credits in economics. Take 6 courses in addition to those in the Foundation above. We also recommend you take History 176 and 177 as electives or in partial fulfillment of the general degree requirements.

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. May not be taken for credit after 310. 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. Students may arrange for independent study with cons 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 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 or con reg 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 and 330.

ACCT 370. Accounting Information Systems. 3 cr. Introduction to the concepts, objectives and importance of properly designed accounting information systems. Extensive study of internal controls including systems documentation. 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. Prereq: 210 and Bus 320, or cons instr.

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 410. Advanced Financial Accounting (formerly 312). 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 420. Seminar in Managerial Accounting. 3 cr. Measurement and analysis of accounting data appropriate to managerial planning and decision making, cost determination, performance evaluation and control. Emphasis on the identification and utilization of performance measures and controls that drive results consistent with corporate strategies. Prereq: cons instr.

ACCT 450. Auditing (formerly 350). 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 497. Internship in Accounting. Cr arranged. Supervised training work program in a cooperating agency or business. Credit set by chair and acct faculty. 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. See full course description in indicated (xx-xx) catalog.

320 Managerial Accounting, 3 cr. (07-09)
340 Fund Accounting, 3 cr, (89-91)
490 Special Topics in Accounting, cr arranged, (07-09)

Courses in Business

BUS 293(NW). Internship in China. 3 cr. Supervised training work program in cooperating agency in China, plus lectures in English. Does NOT apply to major/minor. Prereq: For NON-B&E majors only or cons intern dir.

BUS 299. Special Work. Underclass students may arrange for independent study with cons chair. Credit based on scope of project.

BUS 320. 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 321. Entrepreneurship . 3 cr. Entrepreneurship and entrepreneurship 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: 320 or cons instr.

BUS 322. Business Leadership for Managers. 3 cr. Explore the various theories of leadership within the context of management. The role of the leader's impact on attainment of organizational goals at various levels is studied. Situational leadership approaches are examined. Personal analysis of preferred style is included, as well as skill building techniques needed for development of leadership. Prereq: 320.

BUS 324. 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: 320 or cons instr.

BUS 325. 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: 320.

BUS 326. Organizational Theory. 3 cr. Use an open system perspective to examine how managers deal with factors that affect the organization. Consider factors such as environment, technology, and goals in determining the nature and structure of the organization. Prereq: 320.

BUS 327. Managing Global Organizations. General concepts, techniques, and practices related to managing global organizations. Challenges, rewards, risks, and consequences of managing in diverse countries are discussed. Various cultural theories are studied. Particular emphasis is placed on the comparison of Western cultural influences to non-Western cultural influences on accepted business practices. Prereq: 320 or 330.

BUS 330. Principles of Marketing. 3 cr. Study marketing theories and concepts used to apply marketing strategies to 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. Prereq: 320 and 330.

BUS 341. Business Law II. 3 cr. Commercial paper, real estate and personal property, partnerships, corporations, bankruptcy. Prereq: 340 or cons instr.

BUS 342. International Business Law. 3 cr. The legal environment of international business and contracting, international and U.S. trade laws and treaties, regulation of the international marketplace. 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. Prereq: 340.

BUS 350. Principles of Finance. 3 cr. Business units, especially corporate, in present day enterprise; financial principles applicable to their operation. For DBE majors. Prereq: Acct 210; approved major/minor, and 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 securities to balance income, risk, and capital growth. Prereq: 350.

BUS 356. Corporate Risk Management. 3 cr. Identify, measure and manage risk for corporations and individuals. Topics include identification, measurement and reporting of risk, as well as use of financial tools and techniques to control risk. These tools include insurance, portfolio management and financial derivatives. Prereq: 350.

BUS 357. International Corporate Finance. Introduction to international financial markets, exchange rate determination theory, concepts/measurement of foreign risk exposure, financial instruments to hedge exchange risk, and financing multinational enterprises. Prereq: 350.

BUS 360. Principles of Production-Operations Management. 3 cr. Use quantitative 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. For DBE majors. Prereq: Acct 211; Bus 320; Econ 211; 3 cr in statistics; Math 109 or equiv; and cons instr.

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. Prereq: 320 and 330.

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. Prereq: 210 and 320, or cons instr.

BUS 421. Advanced Entrepreneurship. 3 cr. Development of success strategies for small businesses. Problem identification and implementation of solutions to increase the success rate for start-ups. Marketing, finance, human resource, and management challenges that face small firms will be covered in a case study approach. Prereq: 320, 330, 321; Acct 210.

BUS 438. Marketing Strategies. 3 cr. Study actual and case marketing situations in order to analyze and solve problems of marketing strategies and to learn how to develop marketing strategies that will take advantage of market opportunities. Prereq: 338

BUS 455. Corporate Finance Seminar. 3 cr. Current topics and advanced discussion of corporate finance subjects. Topics include corporate financing (including public offerings and private

placements), financial forecasting, mergers and acquisitions, and financial statement analysis. Prereq: 350.

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 bus admin major or cons instr.

BUS 490. Special Topics in Business Administration. Cr arranged. Subtitle will designate topic.

BUS 493(NW). Internship in China. 3 cr. Supervised training work program in cooperating agency or business in China plus lectures in English. Prereq: Bus Adm major/minor or cons intern dir.

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 business 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 bus 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 bus 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.

Business Latent Course: Not offered recently. See full course description in indicated (xx-xx) catalog.

391 Small Business Mgt Consulting Practicum, 3 cr, (03-05)

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 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 impact of govt regulation. Prereq: 211.

ECON 324. Health Economics. 3 cr. Apply microeconomic theory to analyze behavior of health and health care markets. Includes supply and demand of health care services, private health insurance markets, government provision of health care services and health insurance, and health care policy. Prereq: 211 or cons instr.

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 330. Evolution of American Enterprise. 3 cr. Evolution of business systems and development of American economy; historical transformation of firms, markets, and government; institutional sources of economic growth. Prereq: 211.

64 Chemistry

ECON 340. Industrial Organization. 3 cr. Structure and performance of markets; strategic behavior of firms; price discrimination, product differentiation, advertising, entry deterrence, and research and development. Prereq: 211.

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 Economics. 3 cr. Examine state of modern labor market, theory of worker supply and demand, wage determination in competitive markets, internal labor markets and labor market segmentation, trade unions, discrimination, human capital accumulation as well as public policy related to these topics. Prereq: 211.

ECON 346. Collective Bargaining. 3 cr. History and legal framework of collective bargaining; contextual influences on bargaining process; union organization, negotiating strategies, and goals; management organization and bargaining strategies; content of collective bargaining; bargaining process in public and private employment; dispute resolution procedures; current topics. Prereq: 210.

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 and Math 109, 111, or 120.

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. 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 370. Managerial Economics. 3 cr. Economic analysis for business decision making. Theory, mathematical, and statistical analysis of optimization, demand, elasticity, cost, profitable pricing, forecasting, and long-run vs. short-run decisions. Prereq: 211, Math 109, and 355 or equiv.

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 390. Special Topics in Economics. 1-3 cr. Subtitle will designate topic. May repeat for credit with different subtitles. Prereq: Cons instr.

ECON 420. Economics of Organization. 3 cr. Apply microeconomic and game theoretic principles to analyze business institutions and practices. Examine economic theories of the firm and alternative contractual relationships. Vertical integration (make-or-buy decision), corporate ownership, multiproduct firm, relational contracting, franchising. Evaluate economic theories with 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/social determinants of direction and rate of change, effects of change on economic structure/growth, and on behavior of firms. Also, technology problems faced by policy makers and firm managers. Prereq: 211 and 2nd sem jr or sr st.

ECON 490. Advanced Topics in Economics. 1-3 cr. Subtitle will designate topic. May repeat for credit with different subtitles. Prereq: Sr st; cons instr.

ECON 493(NW). Internship in China. 3 cr. Supervised training work program in cooperating agency or business in China plus lectures in English. Prereq: Econ major/minor or cons intern dir.

ECON 497. Internship in Economics. Cr arranged. Supervised training work program in a cooperating agency or business. Credit set by chair and econ 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/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.

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 full course description in indicated (xx-xx) catalog.

367	Comparative Economic Systems, 3 cr, (03-05)
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* for the option and minor in *Youth Programming and Camp Management*.

CAPTIVE WILDLIFE

See *Natural Resources – Wildlife Ecology*.

CARTOGRAPHY

See *Geography*.

CHEMICAL ENGINEERING

See *Chemistry* and/or *Paper Science and Engineering*.

Chemistry

(College of Letters and Science)

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Timerman, S Wright, M Zach, T Zamis.

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 105 and 106 or Chem 117, 248, 325, 326, 335, 336, 395, 446.

Collateral courses: Math 120, 121, 222; Physics 150, 250.

Complete **ONE** of the following majors:

Chemistry Major

Consists of a minimum of 62 credits (57 credits if taking Chem 117):

1. Chemistry core and collateral courses (above).
2. Chemistry 365.
3. At least 2 credits from Chem 329L, 339L, 371, 373, 387, 425, 455, (L = lab work).

Chemistry Major for Professional Certification by the American Chemical Society

Consists of a minimum of 69 credits (64 credits if taking Chem 117):

1. Chemistry core and collateral courses (above).
2. Chem 329, 339, 365, 455.
3. At least 3 credits from Chem 371, 373, 387, 425, 499. You may substitute one advanced course in another science for one chemistry course in this group with approval of the chair.
4. Reading knowledge of a foreign language encouraged.

Chemistry Major with Polymer Option

Consists of a minimum of 65 credits (60 credits if taking Chem 117):

1. Chemistry core and collateral courses (above).
2. Polymer courses: Chem 371, 373, 474, 478.
3. At least 2 credits from Chem 329, 339, 365, 387, 425, 455.

Chemistry Major with Polymer Option for Professional Certification by the American Chemical Society

Consists of 75 credits (70 credits if taking Chem 117):

1. Chemistry core and collateral courses (above).
2. Chem 329, 339, 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 26 credits (21 credits if taking Chem 117). Take **ONE** of the following course sequences:

1. Chem 105 and 106 or Chem 117; Chem 248, 325, 326, and a minimum of 4 addl credits selected from Chem 329, 335, 365, 371, 373, 387, 395 and the combination of Water/Geology 487 and Water 492
2. Chem 105 and 106 or Chem 117; and Chem 220, 248, 260, and the combination of Water/Geology 487 and Water 492.

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. 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.
2. 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 117 with a subsequent grade in 106 if you first get authorization from the department chair.
3. 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
365	260

4. 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.

Biochemistry

See listing of the major earlier in this section.

Prechemical Engineering

Take the following science and mathematics courses in your freshman and sophomore years: Chem 105 and 106 (or 117), 248, 325, 326; Math 120, 121, 222; Physics 150, 250. Specific chemical engineering curricula and universities have individual requirements. See a prechemical engineering advisor 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 105 and 106 (or 117), 325, 326, and Math 120; Physics 203 and 204. For additional requirements and suggested electives, see a prepharmacy advisor.

Academic Standards

1. 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.
2. 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.
3. To be accepted as a minor, you can have no more than one grade below C- in any chemistry course.
4. To be approved for graduation with a chemistry major, you must:

66 Chemistry

- a. Have a minimum grade point average of 2.00 (2.75 for student teaching) in all chemistry courses and required collateral courses.
 - b. Have no more than one grade below C- in any chemistry, mathematics, or physics courses numbered below 299 required in the chemistry major.
 - c. Apply no more than one grade below C (C- is a grade below C) in chemistry courses numbered 300 or above to the major.
5. 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.
 6. 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.
 7. If you are a transfer student, the grades you earned at another campus are not included in these requirements nor in your GPA calculation. However, all grades are counted if you apply for teacher certification.
 8. See **Notes 1-4** 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, and 106. 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 and 106. 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. Chemistry for the Citizen. 3 cr. Selected principles of chemistry. Relationship between chemistry and modern society. 2 hrs lec, 3 hrs lab per wk. (I, II) GDR:NS-EL

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 2 and 3.) (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 2,3,4.) (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 note 3.) (I, II) GDR:NS

CHEM 115. General and Inorganic Chemistry. 5 cr. (Two semester course for majors/minors) Laws and principles of chemistry including atomic and molecular structure, review of stoichiometry, descriptive inorganic chemistry of the representative and transition elements, chemical equilibria, electrochemistry, thermodynamics, and chemical kinetics. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. Prereq: One yr high school chemistry grade C or better; Math 118 or con reg or cons chemistry chair; or placement in 119 or higher. (See notes 2 and 3.) (I) GDR:NS

CHEM 116. General and Inorganic Chemistry. 5 cr. Continuation of 115. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. Prereq: 115. (II) GDR:NS

CHEM 117. General Chemistry Principles. 5 cr. (1 semester course for especially well-prepared majors/minors). Laws and principles of chemistry including atomic and molecular structure, review of stoichiometry, descriptive inorganic chemistry of the representative

and transition elements, chemical equilibria, electrochemistry, thermodynamics, and chemical kinetics. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. (I)

CHEM 221. 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 117. (See note 3.) (I, II)

CHEM 221. Survey of Organic Chemistry Lecture. 3 cr. Systematic one semester lecture only survey of carbon compounds. 3 hrs lec per wk. Only for fisheries and watershed management majors. Does not count toward any chemistry major or minor. Prereq: 106 or 117, or cons instr. (See note 3.) (I, II)

CHEM 248. Quantitative Analysis. 4 cr. Theory and methods of quantitative chemical analysis including effects of chemical equilibria on quantitative separations, titration curves, polyprotic acids and buffers, and oxidation-reduction processes. 2 hrs lec, 6 hrs lab per wk. Prereq: 106 or 117. (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. (See note 3.) (II)

CHEM 298. Special Topics in Chemistry. 1-3 cr. Subtitle will designate topic. May repeat with different subtitles. Prereq: Cons instr.

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. 4 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 carbohydrates, polymers, amino acids and proteins. Retrosynthetic analysis and spectroscopic characterization of organic modules. 3 hrs lec, 3 hrs lab per wk. Prereq: 106 or 117. (See note 3.) (I, II)

CHEM 326. Organic Chemistry. 4 cr. Continuation of 325. 3 hrs lec, 3 hrs lab per wk. Prereq: 325. (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 and 326. (I)

CHEM 333. Biophysical Chemistry. 3 cr. Examine physiochemical principles underlying structure and chemical properties of macromolecules of biological importance, including principles of thermodynamics, equilibrium, kinetics, and dynamics. Includes methods for separation and isolation of macromolecules and their spectroscopic characterization. 3 hrs lec per wk. Prereq: Math 120, Physics 204 or 250, CHEM 365, and accepted biochemistry major, or cons chair. (See note 3.) (II)

CHEM 335/535. Physical Chemistry. 4 cr. Laws and principles of physical chemistry including atomic and molecular structure, thermodynamics, kinetics. 3 hrs lec, 3 hrs lab 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 339/539. Physical Chemistry Laboratory II. 1 cr. Extension of 335 lab 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. (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 and 326; accepted chemistry major/minor, biochemistry major, or cons chair. (See note 3.) (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 copolymers, 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: 326 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 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 446/646. Instrumental Analysis. 4 cr. Instrumental methods of analysis including spectroscopic, electro-chemical, and separation techniques. Presentation of results from an inquiry-based experiment required. 2 hrs lec, 6 hrs lab per wk. Prereq: 248; and 336 or con reg. (See note 3.) (II)

CHEM 455/655. Advanced Inorganic Chemistry. 3 cr. Descriptive inorganic chemistry, periodicity of elements, bonding theories, reaction mechanisms, acid-base theories; and coordination, bioinorganic, and nuclear chemistry. 3 hrs lec per wk. Prereq: 336 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. Prepare 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: 326; 474 or con reg. (II)

CHEM 496/696. Seminar II. 1 cr. Study and discuss current developments in chemistry. Prereq: 336, 395; accepted chemistry major or cons chair. (II)

CHEM 499. Independent Research. 1-3 cr. Chemistry majors may arrange for independent research with faculty research advisor. Written report required. Students are encouraged to repeat this course with their advisor. 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.

Chemistry Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

104	Essentials of Chemistry, 2 cr, (95-97)
114	General Chemistry Laboratory, 1 cr, (03-05)
328	Organic Chemistry Lab, 2 cr, (07-09)
330	Brief Course in Physical Chemistry, 4 cr, (05-07)
338/538	Physical Chemistry Laboratory I, 1 cr, (03-05)
340	Intermediate Analytical Chemistry, 4 cr, (05-07)
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)
458/658	Advanced Inorganic Chemistry Lab, 1 cr, (03-05)
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. See full description in indicated (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 and Human Development*.

CHINESE

See *Foreign Languages*.

CLINICAL LABORATORY SCIENCE

See *Health Sciences*.

COACHING

See *Health, Exercise Science, and Athletics*.

COLLABORATIVE DEGREE PROGRAM

See *More Academic Information, American Studies, or Business and Economics*.

Communication

(College of Fine Arts and Communication)

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Definition: Communication studies 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 advisor, you can prepare for a wide range of communication careers in broadcasting, new media, journalism, public relations, management, training, sales, and human services as well as receive 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

Communication is a limited-enrollment major. Enrollment caps are in effect for all emphases in the major. It is possible that you might meet minimum eligibility requirements (below), but not be accepted into the major. The number of graduates in an emphasis will determine how many students are accepted into that emphasis in a given semester.

Step One: Premajor

If you wish to pursue a major in communication, you must first meet with a division representative. At this meeting you will be granted "premajor" status and assigned an academic advisor.

- As a premajor you must complete 7-13 communication credits including:
 - Comm 100.
 - Any one of Comm 171, 271, 273.
 - Any one of Comm 160, 190, 192, 230, 240, 280.
- Premajor course equivalents taken at other universities may substitute for premajor requirements; however, transfer students must complete at least 4 credits of UWSP COMM courses during the premajor process (Comm 100 + one additional course) and must fulfill all 3 required categories.
- Achieve a minimum 2.75 GPA for all communication credits attempted.
- Apply to the major after you complete items 1-3 above.
- Applications are due before the end of the ninth week of each full semester.

68 Communication

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 declare 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.

Step Two: Communication 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 requirements for one emphasis area (below).
4. Eighteen credits must be in courses numbered 300 or above.
5. Comm 101 may not be used to complete the major.

Areas of Emphasis

To major in communication and qualify for graduation you must complete all the required courses (above) and one of the following emphasis areas (below). Courses listed below with an asterisk (*) may be repeated for credit under different subtitles.

Interpersonal and Organizational—Required: Comm 240, 280, 383. Electives: 12 credits from Comm *342, 343, 345, *349, 376, 381, *385, 386, 387, *389, *390 (interpersonal or organizational focus), 392, *394, 396.

Media Studies—Choose ONE track:

1. **Journalism**. Required: Comm 190, 192, 221, 320, 321, 325. Elective: One course from Comm *323, 324, *329, *363 (Survey of Documentary), 387, 392.
2. **Media production**. Required: Comm 190, 192, 253, 325, 353, 356. Elective: One course from Comm 351, *352, *359, 360, 361, *362, *363, 364, *365, 367, *369, 387, 392.

Public Relations—Required: Comm 221, 230, 334.

Electives: 12 credits, at least 6 must be from Comm 333, 336, 339, 431. Additional 6 credits may be from Comm *322 (publication design focus), *330, *390 (problem solving focus), 392, 394. Other elective courses may be available.

Individually Planned (I.P.E.)—Required: Comm 100, 171, 271, 273, 373. Electives: 27 credits of additional communication courses selected in consultation with your advisor and division head approval. At least 18 must be 300 level or above.

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.

Academic Standards

Retention and Graduation

1. 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/minors who are at or

below a 2.75 GPA. However, it is your responsibility to know your own GPA.

2. Any major/minor falling below a 2.75 GPA in communication courses will be placed on probation in the Division of Communication. If you fail to regain a 2.75 GPA after the next semester you enroll in a communication course, you will be dismissed from the major/minor.
3. Courses with a grade below C- DO NOT fulfill the major or minor requirements, but are included in the calculation of the major or minor GPA. See the **More Academic Information** section of this catalog for the policy on repeating courses.
4. **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, and 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. 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 Media. 3 cr. Growth, ramifications and contexts of communication media. GDR:HU1

COMM 192. Constructing Media Narratives. 3 cr. Introduction to the way narratives are shaped by the conventions and constraints of specific media forms including journalism, film, television, radio, and nonlinear multimedia.

COMM 221. Basic Journalism: Newswriting and Reporting. 3 cr. Learn basic skills needed to produce stories for journalism, including news gathering, writing and editing techniques.

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. 3 cr. Introduction to organizational communication theories and workplace practices. GDR:SS2

COMM 253. Media Production I. 3 cr. Principles and techniques for media production. Fundamental hardware and software for a variety of delivery systems. Emphasis on aesthetics. Personal digital camcorder with external hard drive required. See www.uwsp.edu/comm/video.htm

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. GDR:HU1

COMM 280. Introduction to Interpersonal Communication. 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 division 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 320. Multimedia for Journalists. 3 cr. Principles and techniques of journalism for multimedia distribution including Web, podcasting, blogs, and other media. Prereq: 221 or cons instr.

COMM 321. Intermediate Journalism: Newswriting and Reporting II. 3 cr. News and public affairs reporting. Prereq: 221 or cons instr.

COMM 323/523. Advanced Journalism. 3 cr. Practice in specific forms of journalistic writing such as feature, editorial, sports, science, food and travel, and others. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 221 or cons instr.

COMM 324. Environmental Journalism. 3 cr. Advanced reporting course including techniques in investigative reporting and science writing, building on fundamental journalism skills through in-depth research, analysis and writing about significant environmental issues. Prereq: 221 or cons instr.

COMM 325/525. Media Law. 3 cr. Legal issues for media professionals including journalists and producers of electronic media. Prereq: 190 or 230 or cons instr.

COMM 329. Topics in Journalism. 3 cr. Typical offerings include new journalism, photo journalism, literary journalism, journalism history, business journalism. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 190 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. Advertising Copywriting. 3 cr. Training in writing advertising for various media including print, broadcast, and direct mail. Prereq: 230 or cons instr.

COMM 336. Communication and Promotional Strategies. 3 cr. Basic principles of promotion as they apply to various areas of communication especially relationship of promotion to print and electronic media.

COMM 339/539. Crisis Communication. 3 cr. Study various crisis communication situations including definitions, planning, reputation management and annual report communication. Emphasis on comprehensive crisis communication plan. Prereq: 230.

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 345/545. Small Group Communication. 3 cr. Study communication theories, practices, and skills used in organizations as part of group/team process. Includes group meeting skills, decision making, and group leadership. Prereq: 240.

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 351. Writing for Visual Media. 3 cr. Writing for visual media, including corporate video, multimedia, documentary, podcasting, and blogging. Prereq: Cons instr.

COMM 352. Audio Production. 3 cr. Training in audio production across multiple formats such as sportscasting, producing non-fiction, producing fiction, and producing video post-production. May repeat for credit with different subtitles.

COMM 353. Media Production II. 3 cr. Advanced hardware and software. Create projects for variety of delivery systems. Personal

digital camcorder and external hard drive required.

See www.uwsp.edu/comm/video.htm. Prereq: 253.

COMM 356. Media Production Workshop. 3 cr. Culminating experience in media production. Individuals and teams develop media projects for clients. Personal digital camcorder and external hard drive required. See www.uwsp.edu/comm/video.htm. Prereq: 353.

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: 190 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. GDR:HU1

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 367/567. French Film and Culture. 3 cr. Study French film classics in context of French history and culture. Interdisciplinary introduction to important films and filmmakers. Evokes French café culture of passionate debate about art and social issues. GDR:HU1

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: 160 or cons instr.

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 376. Multigenerational Communication. 3 cr. Examination of multigenerational communication theory and research emphasizing improving interaction quality and understanding. Prereq: 175 or cons instr.

COMM 381/581. Dialogical Communication and Relationships. 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.

70 Communicative Disorders

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. 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 485. Externship in Communication. 12 cr. Full-time foreign placement through UWSP International Programs in a communication focused externship. 3 cr max apply to major. Prereq: 2.75 GPA in communication major; sr st; interview with division head or designee.

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 503. Technology and Leadership. 3 cr. Impact of the information age on contemporary leadership issues.

COMM 504. Using the Internet for Creative Education and Social Change. 3 cr. Creating Internet strategies and materials for education, business, and nonprofit agencies.

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. See full course description in indicated (xx-xx) catalog.

175 Intro to Diversity Communication, 3 cr, (99-01)

238 Intro to Advertising, 3 cr, (01-03)

252 Audio Production I, 3 cr, (07-09)

302/502 Global Comm and Information Age, 3 cr, (05-07)

303 Technology and Leadership, 3 cr, (07-09)

304 Using the Internet for Creative Education and Social Change, 3 cr, (07-09)

306/506 Multimedia Authoring and Publishing on the Net, 3 cr, (07-09)

307/507 Adv Multimedia Author/Publish on Net, 3 cr, (05-07)

322/522 Communication Graphics Lab, 3 cr, (05-07)

330/530 Public Relations Laboratory, 3 cr, (03-05)

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)

355/555 History of Broadcasting, 3 cr, (05-07)

366 Film and American Environment, 3 cr, (01-03)

371 Media Stereotyping, 3 cr, (03-05)

372 Inter-Ethnic Communication, 3 cr, (99-01)

375 Interracial Communication, 3 cr, (99-01)

377 Communication and Aging, 3 cr, (99-01)

378/578 Diversity Communication Strategies, 3 cr, (99-01)

379 Native American Communication Issues, 3 cr, (99-01)

439 Advertising Campaigns, 3 cr, (01-03)

490 Senior Seminar, 3 cr, (01-03)

500 Intro to Communication Research, 3 cr, (91-93)

506 Multimedia Authoring and Publishing on the Net, 3 cr, (07-09)

521 Advanced Journalism, 3 cr, (91-93)

523 Journalism Writing Laboratory, 3 cr, (91-93)

529 Topics in Journalism, 3 cr, (91-93)

535 Advertising Copywriting, 3 cr, (07-09)

xxx Diversity Comm Option (approved 1990)

xxx Communication Technologies Mgmt 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: D Christensen, G Cumley, M Day, J Elliott, C Forster, T Gumz, R Henning, D Henry, J King, C Osborne, L Plonsker, P Terrell, M Watson.

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 undergraduate 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, 260, 264, 266, 267, 342, 345, 351, 352, 360, 366, 407, 451 and 4 credits 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 Leading to 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 some or all of the following:

1. Education, 10 credits: 200, 205, 300, 351, 381, 400.
2. History, 6 credits: 177 and one additional course from 176, 288, 285, 292.
3. Political Science 101.
4. The graduate degree in speech-language pathology or audiology.

Academic Standards

1. You must have an overall GPA of 2.0 to enroll in lower division preprofessional coursework for the major: COMD 108, 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 in the major if you follow the "Repeating Courses" policy found in the **More Academic Information** section of this catalog.
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 to determine your 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 Speech-Language Pathology

Is described in the **Graduate** section of this catalog.

Clinical Doctorate in Audiology

Is described in the **Graduate** section of this catalog.

Center for Communicative Disorders

Tami Gumz, Clinical Director
 Room 001, College of Professional Studies Building
 Phone: 715-346-2456
 E-mail: commdis@uwsp.edu

The Center for Communicative Disorders offers speech-language diagnostic and therapy services as well as comprehensive hearing evaluations for children and adults. Assessment and treatment can be provided for numerous communication and swallowing concerns that may be secondary to cleft palate, cerebral palsy, autism, laryngectomy, hearing loss, cognitive disorders, learning disabilities, stroke, traumatic brain injury, or other neurological disorders.

The Center for Communicative Disorders is a clinical training facility accredited by the Council of Academic Accreditation of the American Speech-Language-Hearing Association (ASHA). The center has a reputation for excellence in serving the university and Central Wisconsin by providing clinical services as part of the professional preparation of undergraduate and graduate students.

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 260. Phonetics. 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 finger spelling. Prereq: Cons instr.

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, 260, 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, 260, 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, 351, 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: 108, 260, 264, 266, 267.

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 Ed Prog for special ed students; or jr or sr st in COMD.

COMD 407. Introduction to Speech and Hearing Science. 3 cr. Acoustic and physiologic elements of speech production and perception; laboratory assessment. Prereq: 345, 351, 352, 360, 366 or cons instr.

72 Communicative Disorders

COMD 451. Hearing Science. 3 cr. Measurement of sound; anatomy and physiology of the hearing mechanism; introduction to psycho-acoustics. Prereq: 345, 351, 352, 360, 366, Math 100, 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 715. Gross Anatomy of the Head and Neck. 2 cr. Gross human anatomy for human communication; dissections of the head and neck to view structural relationships of the mechanisms. 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 and Adolescents. 3 cr. Impact of language-based disorder and effect on literacy development and academic success. Includes information processing, memory, word finding, nonliteral language, problem-solving abilities using various assessments and curriculum-based intervention techniques that facilitate academic and social development. Prereq: Cons instr.

COMD 738. Working with Families of Infants and Toddlers at Risk. 2 cr. Identification, assessment, program planning and intervention procedures for families of infants and toddlers with or at-risk for disabilities. Biological and environmental risk factors, management, and role of interdisciplinary teams in prevention and early intervention. Prereq: Cons instr.

COMD 740. Neurogenic Communication Disorders and Age-related Changes. 4 cr. Acquired neurogenic communication disorders of adults (aphasia, cognitive-communication impairments, language of confusion, language of generalized intellectual impairment) from strokes, trauma, illness, and degenerative diseases. Evaluation, differential diagnosis, and management procedures. Primary aging changes and impact on communication. Prereq: Cons instr.

COMD 742. Seminar in PDD/Autism. 2 cr. Assessment and intervention approaches based on current theoretical perspectives of Autism Spectrum Disorders. Focus on different methods of enhancing 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 763. Aural Rehabilitation/Habilitation. 1-3 cr. Counseling and intervention programs and techniques for re/habilitating communication skills of children and adults with hearing loss. Prereq: Cons instr.

COMD 765. Augmentative and Alternative Communication. 3 cr. A lifespan approach to assess, intervene, and manage individuals who are nonspeaking because of developmental, motor, or acquired disabilities; determine and develop 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 773. Counseling in Speech-Language Pathology. 1 cr. Explore theories and philosophical orientations to the practice of counseling in daily interactions with people with communication disorders. Practical applications for variety of needs in different settings. Scope of practice within the profession. Prereq: Cons instr.

COMD 774. Professional Issues: Diversity and Multicultural. 1 cr. Evaluate and manage persons with communication disorders across diverse cultural backgrounds, personal values and beliefs. Prereq: Cons instr.

COMD 775. Medical Settings. 1 cr. Evaluate and manage persons with communication disorders within medical setting. Consider various medical settings, ethics, functional goals, and documentation (billing, reporting, etc.). Prereq: Cons instr.

COMD 776. School Methods. 2 cr. Apply assessment and intervention skills to preK-12 public school contexts. Educational organization, legal mandates, certification/licensure, curriculum-relevant goals, collaborative roles, current professional issues. Prereq: Cons instr.

COMD 784. Disorders of Phonation. 3 cr. Current trends in classification, differential diagnosis, assessment, treatment, and prevention of vocal dysfunction and resonance disorders across the lifespan. Also atypical phonation disorders, causes of laryngeal cancer, medical management of malignant tumors of the larynx, rehabilitation of laryngectomees. 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 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 I. 1-2 cr. Evaluate and manage persons with communicative disorders in the Center for Communicative Disorders and selected off-campus facilities. Prereq: Cons instr.

COMD 792. Graduate Practicum II. 2-4 cr. Evaluate and manage persons with communicative disorders in the Center for Communicative Disorders and selected off-campus facilities. Prereq: Cons instr.

COMD 793. Graduate Practicum III. 1-2 cr. Evaluate and manage persons with communicative disorders in the Center for Communicative Disorders and selected off-campus facilities. Prereq: Cons instr.

COMD 794. Graduate Practicum IV. 2-4 cr. Evaluate and manage persons with communicative disorders in the Center for Communicative Disorders and selected off-campus facilities. 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. See full course description in indicated (xx-xx) catalog.

From 89-91 catalog: 780 Com Dis in Children.

From 87-89 catalog: 749 Total Communication.

Courses for Doctorate in Audiology

NOTE: All 800-900 courses require graduate status and consent of the instructor as prerequisites.

COMD 805. Diversity and Multicultural Issues. 1 cr. Evaluation and management of persons with communication disorders across diverse cultures, personal values and beliefs.

COMD 806. Professional Issues: Medical Setting. 1 cr. Evaluation and management of persons with communication disorders within a medical setting. Various medical settings, ethics, functional goals, documentation (e.g. billing, reporting, etc.).

COMD 832. Pediatric Audiology. 3 cr. Study of normal physical, social, cognitive, speech and language and auditory development in children; causes and effects of childhood hearing loss; hearing screening and principles of early intervention; behavioral and objective assessment of hearing in children. Prereq: 850, 851, 852, 858.

COMD 833. Occupational Audiology. 2 cr. Principles and issues regarding effects of noise on people; federal and state regulation of workplace noise; and practical aspects of hearing conservation for those exposed to occupational noise, non-occupational noise or both.

COMD 834. Counseling in Audiology. 2 cr. Roles of counseling in rehabilitative process, ethical obligations of counselors. Develop awareness and skill to build trusting relationship, convey diagnostic information, inform and empower patient/consumer as to their rights and community resources, and respond to way hearing loss impacts the person's social/economic life. Prereq: 850, 851, 852, 856.

COMD 835. Research Methods. 3 cr. Critical analysis of research in speech-language pathology and audiology including theoretical support, research design, statistical levels of measurement, methods of reporting research results, and drawing conclusions from results. Students may pursue personal research interests. Prereq: 850, 851, 852, 854.

COMD 836. Pediatric Habilitation/Rehabilitation. 3 cr. Principles and techniques of intervention with hearing impaired children. Select and fit amplification. Effect of hearing impairment on speech perception, production and language. Communication and educational options. Re/habilitation of communication skills. Prereq: 850, 851, 852, 856, 832, 863.

COMD 837. Auditory and Vestibular Pathologies I. 2 cr. Survey most common peripheral auditory system pathologies and their presentation in the auditory evaluation. Prereq: 850, 851, 852, 856, 858.

COMD 845. Human Balance System: Structure, Assessment, Rehabilitation. 2 cr. Human balance function with emphasis on vestibular system including neurophysiology, testing and rehabilitation. Clinical experience performing electronystagmography (ENG) and videonystagmography (VNG) examination and analyzing results. Familiarity with rotational and posturography tests and various treatment techniques. Prereq: 850, 852, 860, 862, con reg in 846.

COMD 846. Lab: Human Balance System. 1 cr. Training to perform and analyze results of electronystagmography (ENG) and videonystagmography (VNG) examinations, and practice canalith repositioning maneuver. Observe administration of rotational and posturography tests. Prereq: 850, 851, 852, 837, 862, con reg in 845.

COMD 847. Acoustics and Perception of Speech. 2 cr. Advanced review of speech acoustics. Classical and contemporary theories of speech perception, including speech perception of hearing impaired individuals. Prereq: 850, 851, 852, 856.

COMD 849. Geriatric Diagnostics/Rehabilitation. 2 cr. Basic theories of aging, anatomical and physiological effects of aging on auditory and balance systems and resulting communication difficulties. Diagnostic and rehabilitative challenges working with elderly patients. Prereq: 850, 851, 852, 837.

COMD 850. Hearing Science I: Basic Physical, Physiological and Psychological Acoustics. 3 cr. Anatomy and physiology of human auditory system; emphasis on peripheral system. Basic concepts in psycho-acoustics with reference to normal and pathological auditory systems.

COMD 851. Hearing Science II: Advanced Topics in Hearing and Balance. 3 cr. Advanced terminology, concepts, theories and experimental procedures related to psychophysics, anatomy and physiology of auditory and vestibular systems. Central mechanisms of hearing and balance and role they play in psychophysical phenomena.

COMD 852. Hearing Assessment. 2 cr. Diagnostic audiology including bases, purpose, rationale and procedures for tests of auditory function. Examine available evidence as bases for test selections and realizing objectives of diagnostic evaluation. Prereq: Con reg in 853.

COMD 853. Lab: Hearing Assessment. 1 cr. Lab experience focusing on performance of basic audiology tests. Prereq: Con reg in 852.

COMD 854. Electroacoustics and Instrument Calibration. 2 cr. Review physical concepts of acoustics and electronics underpinning the practice of audiology, as well as formally adopted standards for calibrating clinical environments, instruments, and procedures. Prereq: Con reg in 855.

COMD 855. Lab: Electroacoustics and Instrument Calibration. 1 cr. Laboratory experience in electroacoustics and instrument calibration. Prereq: Con reg in 854.

COMD 856. Amplification Systems I. 2 cr. Components and electro-acoustic characteristics of hearing aids and assistive listening devices. Approaches for selecting devices and verifying their fitting. Prereq: 850, 851, 852, 853, con reg in 857.

COMD 857. Lab: Amplification Systems I. 1 cr. Test, fit and repair hearing aids; perform basic hearing aid tests and repairs; proper cerumen removal and ear impression techniques; use appropriate strategies in fitting. Electroacoustic evaluation and use of probe microphone measures in hearing aid fitting. Prereq: 850, 851, 852, 853, con reg in 856.

COMD 858. Physiological Assessment of Auditory System I. 2 cr. Concepts and procedures in physiological assessment of auditory system with otoacoustic emissions and auditory brainstem responses. Clinical applications and case studies integrate these recordings with behavioral assessment of auditory system. Prereq: 850, 851, 852, con reg in 859.

COMD 859. Lab: Physiological Assessment of Auditory System I. 1 cr. Laboratory experience in procedures and interpretation of physiological assessment of auditory system emphasizing otoacoustic emissions and auditory brainstem response. Prereq: 850, 851, 852, 853, con reg in 858.

COMD 860. Physiological Assessment of Auditory System II. 2 cr. Advanced study of physiological measures audiologists use in threshold and diagnostic evaluations, including acoustic immittance, middle and long latency auditory evoked potentials, P300 and MMN. Introduction to evaluation of balance system. Prereq: 850, 851, 852, 853, 858, 859, con reg in 861.

COMD 861. Lab: Physiological Assessment of Auditory System II. 1 cr. Laboratory experience in objective measures audiologists use for threshold and diagnostic evaluations, including acoustic immittance, middle and long latency auditory evoked potentials, P300 and MMN. Demonstrations, projects and case studies. Prereq: 850, 851, 852, 853, con reg in 860.

COMD 862. Auditory and Vestibular Pathologies II. 3 cr. Major disorders of auditory and vestibular systems; differential diagnosis of disorders of endorgan and neural system and multisystem disorders. Causal factors, treatment and prognosis. Lectures and student presentations focus on case studies. Prereq: 850, 851, 852, 858, 837.

COMD 863. Implantable Auditory Prostheses. 2 cr. Audiological management of severe to profound hearing loss using implantable auditory prostheses. Cochlear implants, introduction to auditory brainstem implant. Prereq: 850, 851, 852, 832, 856.

COMD 864. Auditory Processing Disorders. 2 cr. Review auditory processing and language disorders of school age children and adolescents. Description of disorders, assessment techniques, intervention strategies. Prereq: 850, 851, 852, 832.

COMD 865. Practice Management. 2 cr. Nonprofit and for-profit practice models. Organizational structure, legal and tax implications, financial performance, policies and practices of personnel management, marketing strategies, risk management, professional ethics. Prereq: 850, 851, 852, 832.

COMD 866. Amplification Systems II. 2 cr. Strategies for fitting hearing aids including selection and recommendation, use of prescription gain formulas and verification of gain. Geriatric and pediatric hearing aid fitting and ethical issues. Basic techniques in determining patient satisfaction with hearing aids. Prereq: 850, 852, 854, 856.

COMD 891. Clerkship in Audiology. 1 cr. Introductory practicum. Acquisition of beginning skills in screening and diagnostic audiology and management of hearing loss. Training in use of audiometric instruments and software, patient interactions and reporting procedures.

COMD 892. Clerkship in Audiology. 1-3 cr. Second year practicum. Physiologic assessment of vestibular, peripheral and central auditory systems to develop skills to assess hearing and implement treatment plans across ages. Prereq: 891.

COMD 893. Clerkship in Audiology. 1-4 cr. Third year practicum. Practice skills in settings outside of university clinics. Develop all skills beyond introductory stage to perform assessments and treatment with less supervision. Prereq: 891.

COMD 894. Externship in Audiology. 2-4 cr. Final practicum. Continued development of skills to assess hearing and implement treatment plans across all ages. Develop skills to mastery level to perform competently with minimum supervision. Prereq: 893.

COMD 899. Capstone Project. 2-3 cr. Independent work on capstone project.

COMD 921. Problems in Audiology. 2-3 cr. Causes, nature and rehabilitation implications of specific hearing impairments. Prereq: Con reg in 894.

74 Comparative Literature

Comparative Literature

(College of Letters and Science)

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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 lit 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, administer, and grade a comprehensive written exam on the material covered in the course. 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. Six credits maximum earned from credit-by-exam may count toward the comparative literature minor.

Courses in Comparative Literature

C LT 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

C LT 243. Spanish American Literature in Translation. 3 cr. Selected readings. Subtitle will indicate focus. May repeat for credit under different subtitles.

Comparative Literature Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

101	Masterpieces of the Western World, 3 cr, (03-05)
317	Novel before 1850, 3 cr, (01-03)
324	Literature and the Arts, 3 cr, (07-09)
350/550	Special Problems, 2-3 cr, (87-89)
399	Special Work, (01-03)

Last appeared in the 83-85 catalog: 231 Tragedy, 232 Comedy, 240 Bible, 250 Asian, 251 Asian Fiction, 252 Asian Drama, 253 Asian Poetry, 300 Classical Poetry, 301 Classical Prose, 302 Medieval, 303 Renaissance.

Computer Information Systems

(College of Letters and Science)

Robert Dollinger, Chair of Computing and New Media Technologies
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Web: (under development)

Faculty: J Carter, A Damle, R Dollinger, A Ellertson, D Gibbs, D Goulet, T Krause, K Miller, T Miller, P Seeling.

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 Computing and New Media Technologies.

Computer Information Systems Major (CIS)

Consists of at least 44 credits plus a required minor.

1. Core requirements:
 - a. Computer Information Systems (CIS) 110 or Web and Digital Media Development (WDMD) 110 and 111.
 - b. CIS 120, 210, 220, 310, 410, 480; Math 209.
2. Required option: Complete 3 courses from those listed in one of the following options.
 - a. Application development and support option: CIS 340, 341, 345, 346, 442, 444.
 - b. IT infrastructure option: CIS 360, 361, 462, 463.
3. Required minor: Complete one (See descriptions elsewhere in this catalog).
 - a. Business administration minor.
 - b. Web and digital media development (WDMD) minor.

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 should 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 CIS 110 (or WDMD 110 and 111), 120, 210 and Math 209. 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, at most, the top 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 exceptions.
8. To maintain admitted status, you must maintain a 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 the only CIS

courses for which you will be allowed to register are those required to complete the CIS minor.

10. If you are not admitted to the CIS major, the only CIS courses for which you will be allowed to register are those required to complete the CIS minor.
11. Admission to CIS classes may be limited in any semester and may be determined in part by your CIS GPA.

Computer Information Systems Minor

Consists of at least 24 credits: CIS 110 or WDMD 110 and 111; CIS 120, 210, 220, 310; Math 209.

Academic Standards for CIS Minor

1. To minor in CIS, declare your intention no later than the first 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.

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 110. If you have not taken the APCS exam but have significant programming experience, you may be placed into CIS 120 at the discretion of the department chair. If you receive a grade of B or higher in 120, you will then receive retroactive credit in 110.

Courses in Computer Information Systems (CIS)

CIS 101. Introduction to Computing. 2 cr. Survey hardware, software, computing applications, Internet, current issues in technology, social implications of computing, campus computing environment. Prereq: con reg 102

CIS 102. Practicum in Computing. 1 cr. Subtitle added for each section offered. May repeat for credit under different subtitles.

CIS 110. Object-Oriented Programming. 4 cr. Introduction to object-oriented programming paradigm; definition and use of classes; fundamentals of object-oriented design; development of object-oriented programming language principles; coding in an object-oriented meta language; coding in a current object-oriented programming language.

CIS 120. Data Structures and Algorithms. 4 cr. Introduction to fundamental concepts of data structures and algorithms that proceed from them. Includes recursion, underlying philosophy of object-oriented programming, fundamental data structures, basics of algorithmic analysis. Coding and testing of representative algorithms. Prereq: 110 or WDMD 111; con reg in Math 209.

CIS 210. 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: 120.

CIS 220. Object-Oriented Analysis and Design. 4 cr. Analyze and design a software system using object-oriented paradigm and object-oriented systems development life cycle as framework. Activities done in context of semester-long systems application case study. Prereq: 210, English 102 or 150, Comm 101.

CIS 300. America in the Age of Information. 3 cr. Critical assessment of impact of information revolution on American society, including contemporary life, professions, privacy, security, education, law, government and employment. Does not count for CIS major or minor.

CIS 310. 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: 210; 220 or WDMD 312.

CIS 330. Computer and Network Architecture. 4 cr. Introduction to personal computer architecture including hands-on assembly of hardware components. Examination network concepts and implementation of LAN's using various network operating system platforms. Prereq: 211 or WDMD major.

CIS 340. Application Development with UML. 4 cr. Develop software applications using C#.Net as production language. Study advanced programming concepts and techniques including object-oriented features of C#, GUI interfaces, collections, threads, delegates, exception handling, application domain modeling, database connectivity, XML use, integrated IDE, UML, and automatic code generation. Prereq: 220.

CIS 341. Interactive Web Programming. 4 cr. Examine relationship between Web servers and Web clients. Create interactive Web pages with server-side and client-side script. Pass information between pages. Store and retrieve information to and from a database. Prereq: 310.

CIS 345. Alternate Programming Language. 3 or 4 cr. Examine an alternate programming language with emphasis on language structure. Subtitle will indicate language and number of credits. May repeat for credit under different subtitles. Prereq: 210.

CIS 346. Contemporary Topics in Computing. 3 or 4 cr. Examine contemporary and emerging topics in computing. Subtitle will indicate topic and number of credits. May repeat for credit under different subtitles. Prereq: Jr st.

CIS 360. Data Communication and Networks. 4 cr. Physical basis for communication; modulation techniques; synchronous and asynchronous transmission; analog and digital signaling; multiplexing; communication hardware, software and protocols; routing algorithms; error detection and correction; basic concepts of local and wide area networks; network topologies; analysis of network needs, security, installation and growth. Prereq: 210.

CIS 361. 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 and intrusion detection systems. Prereq: 360.

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 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. How to 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.

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 advisor at a cooperating organization. Credit determined by advisor and chair. May repeat for 6 cr max. Prereq: Jr st and cons chair.

CIS 410. Professional IT Communication. 4 cr. Examine methods of audience analysis and strategies to shape effective oral and written communication related to field of information technology. Prereq: 220 or WDMD 211; Comm 101; English 102 or 150, sr st.

CIS 442. Rich Internet Applications. 4 cr. Examine concepts underlying technologies used to develop rich Internet applications, including scripting, style sheets, postback, message formatting, document object model (DOM), and XMLHttpRequest object model. Develop interactive and responsive Web applications using these technologies in various contexts. Prereq: 341 or WDMD 211.

76 Earth Science

CIS 444. Advanced Database. 4 cr. Define, design and construct an enterprise data warehouse. In-depth study of techniques and algorithms for extracting useful information, such as OLAP, data mining, and creation of datamarts. Examine performance considerations. Prereq: 310.

CIS 462. Secure Server Administration. 4 cr. Apply techniques for secure deployment of network services such as DHCP, DNS, SMTP, SSH, HTTP, HTTPS, printing and file sharing on both Windows and Linux server platforms. Introduction to Linux operating system including commands, utilities, shell programming, system administration, networking and Internet server capabilities. Hands-on laboratory projects. Prereq: 360.

CIS 463. Web Server Administration. 4 cr. Explore essential techniques for administering and securing a Web server. Topics include installation and configuration, virtual Web sites, user authentication, monitoring server access, redirecting URLs, server scripting, database access, server security considerations, and secure sites using SSL and certificates. Hands-on lab projects. Prereq: 360.

CIS 480. Applied Computing 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 real world systems; use project management methods, project scheduling and control techniques; use formal presentations and group dynamics to solve information system problems; develop a database to support the system. Prereq: 310, 410 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. See full course description in indicated (xx-xx) catalog.

105	Intro to Campus Computing Facilities, 1 cr, (95-97)
115	Introduction to Information Systems, 3 cr, (07-09)
116	Introduction to Information Management, 1 cr, (07-09)
195/395	Seminar in Computing, 1-3 cr, (07-09)
205	Computer Prog/Applications for Paper Sci, 4 cr, (03-05)
230	Computer Organiz and Assembly Language, 3 cr, (95-97)
305	Operating Systems, 3 cr, (97-99)
332	Client/Server Computing, 3 cr, (07-09)
335	Computers, Data Processing, and the Law, 3 cr, (95-97)
351	Modeling and Simulation, 3 cr, (97-99)
352	Decision Support Systems, 3 cr, (95-97)
371/571	Microcomputer Operation for Teachers, 1 cr, (03-05)
380/580	Adv Programming/Software for Teachers, 1-3 cr, (99-01)
390/590	Special Topics, 103 cr, (01-03)

Computer Science Education Latent Course: Not offered recently. See full course description in indicated (xx-xx) catalog.

398 Student Teaching in Computer Science, 4-16 cr, (05-07)

COMPUTER SCIENCE

See **Computer Information Systems.**

CONSERVATION BIOLOGY

See **Natural Resources - Wildlife Ecology.**

COOPERATIVE EDUCATION

See **Honors Intern Program.**

CULTURE STUDIES

See **Foreign Languages.**

CYTOTECHNOLOGY

See **Health Sciences.**

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)

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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, 354.
 - 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 205 and 206 or 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. For teacher certification in earth science, you must include Astronomy 205 and 206 or 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 2.00 (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 are admitted as an approved minor; otherwise you are a provisional minor.
 - b. If you transfer and have no credits earned at UWSP in the minor, you will be a provisional minor until you have completed the minimum requirements.
2. If you do not maintain a 2.00 GPA, you will be placed on earth science probation and will have 2 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 2.00 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 astronomy courses taken at the 300 and 400 level on a pass/fail basis do NOT count toward the minor.

ECONOMICS

See **Business and Economics.**

Education

(College of Professional Studies)

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Abbreviations:

Com Dis = Communicative Disorders
CPS = College of Professional Studies
ECED = Early Childhood Education
ECSE = Early Childhood Special 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 adapt instruction to meet the diverse needs of your students, including 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 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 the 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.
- Earn a 2.50 GPA in English 101 and 102 or a C or better in English 150 **-OR-**
 - Test out of English 101 and 102 through the department test-out exam or receive credit by examination for both courses.
 - Test out of one course (or receive credit by exam) and maintain a 2.50 GPA in the other course
 - Receive a grade of B- or better in English 250.
 - 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.

78 Education

- 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 if you are an English language learner. Contact the Education Advising Office for details.**
 5. Receive passing scores on all three sections of the Pre-Professional Skills Test. (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 if you are an English language learner. Contact the Education Advising Office for details.**
 6. If you are an early childhood education major, elementary education major, exceptional education major, you must receive a passing score of 15 or higher on the Pre-Professional Interview. You may repeat this interview once if you do not receive a passing score.
 7. See the department of your major or minor for additional requirements and enrollment cap policies. All programs have additional requirements to apply.
 8. 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, or (3) Word Processing AND Spreadsheet.
 - b. Before admission to PEP, complete the Technology Workshop. 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 **AND/OR** the Pre-Professional Interview score requirement 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 & receive scores for PPST at least twice.
 - 2) Scores cannot exceed a nine 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 waiver request.
 - c. Pre-Professional Interview score waiver requirements
 - 1) Take & receive interview score at least twice.
 - 2) Overall grade point average of at least 2.75 from all accredited institutions attended.
 - 3) Copies of the latest PPST results and transcripts from all institutions.
 - 4) Letter explaining reasons for waiver request.
 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. Dates, times and locations are listed on our Web site. 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 two to six weeks to be mailed. The ETS Web site has information on dates, times and registration procedures for all requirements – www.ets.org/Praxis
- ### 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. 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.
- Enrollment caps and an application portfolio requirement are in effect for all social studies programs. Contact the Education office for more information.
- 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 (ECSE) that leads to regular and early childhood special education (birth through 8 years old) certification.

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 177 and three more credits from History 176, 285*, 288*, 292*, 393* (*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 101.
 - 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 adolescence level. Ages 6-13, approx grades 1-8)

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 177 and 3 more credits from History 176, 285*, 288*, 292*, 393* . (*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 101.
 - 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.

80 Education

- 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, Math 228 and 345, and Music Ed 381.
 5. Complete an approved 22-credit minor or an approved second major: art history, *biology, *broad-field social science, business administration, *economics, *chemistry, *coaching, *cognitive disabilities, communication, comparative literature, computer information systems, dance, drama, *earth science, *emotional disabilities, *English, *English as a second language, *environmental education, *French, *geography, *geology, *German, *health education, *history, *learning disabilities, *mathematics, music, *natural science, *physics, *political science, *psychology, *sociology, and *Spanish. (*Minors available for teacher certification.) See the chart for a list of minors that were established especially to meet the needs of elementary education majors. If you would like to be certified to teach in a teaching minor, you must student teach in that minor if it is not in one of the following fields: language arts, math, science or social science.
 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.
2. History: History 177 and 3 more credits from History 176, 285*, 288*, 292*, 393* . (*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/minor),
 - 3) Educ 390 (or English 355 and 356 if you are an English major/minor). Family/consumer sci, music and physical ed majors are exempt from Educ 390.
 - 4) IRES 331 (or department equiv for English, family/consumer sci, 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 101.
 - f. 1) Science majors and minors take Natural Resources 370.
 - 2) Social science majors and minors take Econ 210 or 272, Political Science 242, 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.

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.

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 177 and 3 more credits from History 176, 285*, 288*, 292*, 393* . (*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 101.
 - 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 Behavioral Disabilities**, 12-18 credits: Educ 364, 369, 398.
 - b. **Learning Disabilities**, 12-18 credits: Educ 364, 369, 398.
 - c. **Cognitive Disabilities**, 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 behavioral disabilities, learning disabilities, and cognitive disabilities 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 Ed Advising Center, Rm 469, CPS Building.

Exceptional Education Minors for Elementary/Secondary Teachers

Early Childhood Special Education (ECSE) Minor for Teachers (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.

Exceptional Educational Needs Minor for Teachers

1. Professional Education: Complete a major certification program in education which includes: Educ 309 and/or 386 (see advisor), 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. Emotional behavioral disabilities (EBD): no additional coursework required.
 - b. Learning disabilities (LD): Educ 310.
 - c. Cognitive disabilities (CD): no additional coursework required.
4. Enrollment caps: Eligible students will seek only one area in special education. Sixty students will be accepted per year with a maximum of 30 students per certification area in EBD, LD, CD.

82 Education

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 Praxis II exams no later than March 1 (if student teaching in the fall), and October 15 (if student teaching in the spring).
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 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 also toward your minor if you wish to student teach in it.

You must register for student teaching in appropriate sections and for credits as your advisors 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/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 quarter.

TEACHER CERTIFICATION

Maggie Beeber, Certification Officer
Room 469, College of Professional Studies Building
Phone: 715-346-2040
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. Get 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 6-13) with an option to add-on ages 6-13 in a teaching 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; French; German; health; music-choral, general, instrumental; physical ed; Spanish; 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, EBD, 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 majors in family and consumer sci, French, German, physical ed, and Spanish 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, www.uwsp.edu/education/report/ lists 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.

		2ndry	Elem	Grad
Major	Minor	Minor	Cert	
Biology	#	@		
Chemistry	#	@		
Coaching		@		
Communicative Disorders				x
Early Childhood Education	#		add-on	x
Earth Science		@		
Economics	#	@		
Elementary Education	#			
English	#	@	◇	
English as Second Language		@	◇	x
Environmental Education			◇	x
Exceptnl Ed with specializations:				
Early Childhood Special Education	#		add-on	x
(Available only to ECSE majors or as an add-on after initial certification in ECSE or elementary)				
Emotional/Behavioral Disabilities	#	@	◇	x
Learning Disabilities	#	@	◇	x
Cognitive Disabilities	#	@	◇	x
Family/Consumer Educ	#			
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 Incl			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 program.

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 364/564. Curriculum and Methods for Young Children. 3-4 cr. Introduction to curriculum principle/methods for developmentally approp environment for young children in a variety of areas. Includes clinical experience. Prereq: Admis to PEP, 262, HD 261 or cons instr; 564 needs elementary license or cons instr.

ECED *366/566. Curriculum and Methods for the Emergent Reader/Writer. 2 cr. Introduction to curriculum and methods for implementing a developmentally approp emergent literacy program. Prereq: Admis to PEP, 262, 302 and HD 261 or 265; 566 needs elementary license or cons instr.

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 *460/660. Home, School, Community Agencies. 3-4 cr. Theory and philosophy of processes used to establish positive relationships among home, school, and agency personnel. Prereq: Admis to PEP; 660 needs elementary license or cons instr.

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. See full course description in indicated (xx-xx) catalog.

160 Topics in Child Devel Assoc Competencies, 1 cr, (97-99)

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, 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 100. Introduction to Education: Teaching and Schooling. 3 cr. Survey of historical, philosophical and political issues in K-12 schooling for students interested in careers as professional educators.

EDUC 101. Field Experience in Teaching and Schooling. 1-3 cr. Two-five days field experience and seminars in a school system.

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. Pluralism for Educators. 1-3 cr. Analyze and evaluate education in U.S., policy of equal educational opportunity, and impact of class, gender, race, and language differences on teaching and learning. Involves lectures, discussions and presentations for pre-service teacher education students on topics mandated for initial certification programs in Wisconsin. (Wis Admin Rule PI 34.15)

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. Introduction to reading process, includes word recognition, vocabulary, comprehension study strategies and classroom organization for elementary/secondary school. Satisfies state mandate for phonics.

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/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 arranged 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; 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; work in cooperation with family members and related services professionals. Includes field experience. Prereq: 351/551.

EDUC *366/566. Assessment/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 (3-5 years) having at-risk situations and/or disabilities; work 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; work 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 388/588. Interpersonal Relations. 3 cr. Developmental effects of different types of relationships between students and teachers; relationship between types of interactions and student self-concept; methods of improving interpersonal relations.

EDUC *390. Reading and Writing for Content Understanding. 3 cr. Analyze and explore how reading and writing support content learning in secondary school. Develop strategies and learning activities that integrate reading and writing in content area studies.

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. 1-3 cr. Emphasis on reflective practice promoting professional growth. Processes for developing and submitting Professional Development Plans (PDPs) for Wisconsin initial educator licenses are examined and completed. Practical methods for stating goals, aligning them to standards, collecting evidence, and analyzing/reflecting on assessments of professional practice are highlighted. Action research is examined as a tool for deepening professional growth. Creating and maintaining a professional portfolio are addressed. Prereq: Graduate Status.

EDUC 598. Graduate Internship. 1-6 cr. Certifiable field experience for licensed educators seeking additional license endorsements under Wisconsin Department of Public Instruction rules. Prereq: Wisconsin educator license.

EDUC 600. Professional Development Seminar: Professional Educator. 1-3 cr. Emphasis on reflective practice promoting professional growth. Processes for developing and submitting Professional Development Plans (PDPs) for Wisconsin initial educator licenses are examined and completed. Practical methods for stating goals, aligning them to standards, collecting evidence, and analyzing/reflecting on assessments of professional practice are highlighted. Action research is examined as a tool for deepening professional growth. Creating and maintaining a professional portfolio are addressed. Prereq: Graduate Status.

EDUC 700. Professional Development Seminar: Master Educator. 3 cr. Sociological, psychological and pedagogical approaches to design professional development plan and portfolio for teacher seeking master educator license and national certification. Practical methods to clarify 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 726. Models of Teaching and Learning. 3 cr. Cohesive curricular components representing a broad array of educational philosophies and teaching methods in social, information-processing, personal, and behavioral models. Each model has distinctive curricular orientation and direct link to supportive instructional environments and curricular methods.

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 740. Reading Teacher Portfolio. 1 cr. Compile personal/professional portfolio representing professional growth based on balanced literacy instruction, diagnosis and evaluation of reading difficulty, supported reading practices, clinical case study. Prereq: Con reg in 741.

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.

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. 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. Teacher Action Research in Reading. 3 cr. Qualitative action research applied to teaching reading. Prepare, conduct, and report on classroom reading/writing research. Prereq: Cons instr.

EDUC 750. Supervision and Administration of Reading Programs. 3 cr. Organization, administration, supervision, and improvement of school reading programs. Apply qualitative action research to examination of school reading programs. Prereq: 749 or cons instr.

EDUC 751. Wisconsin Reading Research Symposium. 1 or 3 cr. Influence/impact of contemporary issues in literacy on reading educators and student reading achievement. Participate in Wis Reading Research Symposium.

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 774. Advanced Methodology in Exceptional Education. 3 cr. Topics: Severe learning disabilities; severe emotional/behavioral disabilities; severe cognitive disabilities; twice-exceptionality; autism spectrum disorders; self-advocacy/life skills. May repeat for credit with different topic and approval of grad coord. Prereq: Undergrad degree, 351/551, special ed certification, or cons instr.

EDUC 775. Alternate Assessment. 3 cr. Emphasis on assessment and evaluation strategies excluding standardized tools. Topics include implementation of state mandates and procedures, design of alternate

measures based on content taught in public schools, and formulation of observation and informal measures.

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 780. Curriculum in Exceptional Education. 3 cr. Develop special education curriculum and analyze existing curricula for learners with exceptional needs ages early childhood through secondary. May include learning disabilities, emotional/behavioral disabilities, cognitive disabilities, early childhood special education, autism, gifted. Prereq: Undergrad degree, 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. Write 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. 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. Foundations of Gifted/Talented Education. 3 cr. Overview of history and definitions. Development, characteristics, and individual learning differences of students with gifts/talents. Identify strategies and program options in gifted/talented education. Introduction to current literature; explore relevant issues and trends.

EDUC 792. Curriculum Methods for Teaching Students with Gifts and Talents. 3 cr. Curriculum methods for identified students with gifts/talents in specialized programs. Curriculum differentiation and instructional strategies/techniques for students with gifts/talents in general classroom. Integration of cognitive/affective domains and creative/critical thinking skills. Collaboration techniques. Planning of the Differentiated Program Plan. Professional and ethical teaching practice. Prereq: 791 or cons instr.

EDUC 795. Practicum in Teaching Students with Gifts and Talents.

1-3 cr. Observe educational programming for, plan instruction of appropriate learning experiences for, and teach students with gifts/talents using specifically designed methodologies. Program and self-evaluation. Prereq: 791 and 792 or cons instr. May take twice with cons instr.

EDUC 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization; regular conferences with staff supervisor.

EDUC 798. Reading Specialist Portfolio. 1-3 cr. Compile personal/professional portfolio representing professional growth in best literacy teaching practices, reflection in teaching, life-long learning, risk-taking/embracing change. Prereq: 528, 749, 750, 751 or cons instr.

EDUC 799. Thesis. 2-6 credits.

Education Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

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)

320 Techniques in Elem School Guidance, 3 cr, (01-03)

327/527 Teach Reading to Gifted/Talented Students, 3 cr, (01-03)

352/552 Workshop in Mental Health, 4 cr, (01-03)

355/555 Methods for Teaching EEN Children, 1-3 cr.

380 Education Principles, 2 cr.

382 Philosophy of Education, 3 cr, (01-03)

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)
717	Economic Education for Elementary and Secondary Teachers, 3 cr, (07-09)
724	Reducing Classroom Conflict, 3 cr.
728	Clinical Supervision of Instruction, 2-3 cr, (91-93)
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)
752	School Law for the Teacher, 3 cr, (01-03)
758	Education for Cooperating Teachers, 3 cr, (93-95)
765	Professional Experience: Secondary, 8 cr, (91-93)
789	Social and Emotional Needs of Gifted, 1-3 cr, (01-03)
793	Issues in Gifted/Talented Education, 3 cr, (01-03)

ELEMENTARY EDUCATION

See **Education**.

ENGINEERING

See **Physics, Chemistry** and **Paper Science and Engineering**.

English

(College of Letters and Science)

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Definition: English is the study of literature, language, literary theory, rhetorical theory, and culture, with the simultaneous development of effective writing skills.

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:

- 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.
- Sophomores may take 300 level courses with approval of the department chair. English majors may take 200 level courses as second semester freshmen.
- 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.
- 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.

- English 201.
- Survey of British literature, 6 credits from 211 (or 321, 323a, 323b, 366) and 212 (or 324, 325, 327).
- Survey of American literature, 6 credits from 213 (or 329, 313a) and 214 (or 313b, 320, 360, 382).
- Ethnic literature, 3 credits: English 284.
- Theory, 3 credits from 379, 380.
- Language, 3 credits from 240, 342, 344, 346.
- Masters, 6 credits from 330, 333, 334, 336, 385, 386.
- Senior Project, 1 credit: 494 (1 credit of 496 may substitute).
- Electives: 7 credits including one 3 credit 300 level literature course beyond the requirements above and at least 4 credits of electives from:
 - Courses listed above that are not used for those requirements.
 - 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, 496, up to 3 credits of 498.
 - Maximum of 3 credits of English 157, 257, 357, 399.

English Honors

English Honors provides outstanding English majors the opportunity to demonstrate their ability to produce scholarly, creative, or pedagogical work comparable with that published in discipline-appropriate academic journals. To graduate with the designation "English Honors" you must:

- Have a 3.5 GPA in the English major.
- Complete the requirements for the English major including English 496, Honors Project (3 cr) and its prerequisite, English 495 (3 cr pass/fail which do not count toward the major).

Contact the English Department for application procedures and complete requirements for the two-semester honors project.

English Major for Teacher Certification

Consists of requirements for the English major above plus:

- 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.
- Reading, 3 credits. English 381 is recommended and counts as elective for teacher certification majors under 9 above. Education 386 can be used to meet the reading requirement for teacher certification, but it does not count toward the English major.
- Literature for adolescents, 3 credits: English 375 may count as an elective for teacher certification majors under 9 above.
- Teacher certification majors must take English 345 for the language requirement of the English major under 6 above.
- Methods, 9 credits: English 355, 356, 497, English Education 396.

88 English

6. Technology, 3 credits: English 393.
7. Student teaching, 12 credits: English Education 398.
8. Seminar on Teaching, 1-2 credits: English Educ 400.

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 Education Methods Block

English education majors must take a spring block of classes (second semester junior year) preceding the fall block of English methods classes (first semester senior year).

1. Spring block, 9 credits: English 345, 375, 381. There are no limits on number of credits you may take in addition to these.
2. Fall block, 12 credits: English 355, 356, 393, 497, and English Education 396. We highly recommend that you take no more than 15 credits during this semester.

English Major with a Writing Minor

Requires 54 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 approved comparative literature courses.

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. English 394.
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. Choose one of the following tracks.

Track 1: Business and Technical Writing

1. Required, 15 crs: English 254, 354, 379, 349, 351.
2. Electives: 9 credits from English 250, 350, 342, and no more than 6 credits from any WDMD, CIS, COMM, or ART courses (with coordinator's prior approval).

Track 2: Environmental and Science Writing

1. Required, 18 credits: English 248, 348, 358, 363, 365, 392.
2. Electives: 6 credits from English 254, 353, 354, 379, 380; or 6 credits from WDMD, CIS, COMM, ART or science courses designated WE with coordinator's prior approval.

Track 3: Creative Writing

1. Required, 18 credits: English 200, 253, 353 (6 cr), and 6 credits of literature from 103, 106, 108, 203-214, 280-336, 360-366, 374, 376, 377, 378, 380, 382, 383, 385, 386.
2. Electives: 6 credits (3 cr must be 300 level) from 1/2/357, 250, 342, 349, 350, 352, 358, 359.

Track 4: General

1. Required, 15 credits: English 200, 250, 253, and 6 credits of literature from 103, 106, 108, 203-214, 280-336, 360-366, 374, 376, 377, 378, 380, 382, 383, 385, 386.
2. Electives: 9 credits from 342, 348, 349, 350, 351, 352, 353, 354, 357, 358, 359.
3. Chair may approve up to 3 credits of writing courses from other departments providing you submit a portfolio containing at least 5000 words worth an English grade of B or better.

NOTE: 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 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.

Academic Standards

1. Anyone may declare a major/minor in English or a minor in 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 department chair consent 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 documentation methods. 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 (chosen by the class) from dramatic literature. 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 Romantics to the present, stressing insight into their works. GDR:HU2

ENGL *213. American Literature I. 3 cr. Representative works by American writers up to 1865. GDR:HU2

ENGL *214. American Literature II. 3 cr. Representative works by American writers since 1865. 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 *248. Introduction to Environmental and Science Writing. 3 cr. Read and produce environmental/science writing such as creative nonfiction prose, natural history essay, news report, investigative journalism report, popular magazine/newspaper feature, pedagogical articles. Introductory readings in the rhetoric and ideology of science writing, eco-criticism, social/environmental justice, ethics of science, history of environmental/science writing. Prereq: Freshman English or cons instr.

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 Technical Writing. 3 cr. Introductory training and practice in workplace writing for business, industry, office, lab. With the understanding that writing is shaped by workplace culture and ethics, produce a wide range of written texts including e-mails, memos, job application materials, grant proposals, formal reports, and manuals. Prereq: Freshman English or cons instr.

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 *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, Olympians and their Roman counterparts, and stories of myth and history that form the basis of 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 U.S. 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 *287. Gay and Lesbian Literature. 3 cr. Introduction to a variety of literary representations of same-sex relationships, belonging to different genres and taken from different cultures and historical periods, in order to discuss how the meanings of and attitudes toward such relationships are culturally variable rather than constant.

ENGL *288. 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. Modern Short Story. 3 cr. Representative short stories of world literature with emphasis on literary structure, form, and theme. GDR:HU2

ENGL 311/511. 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. 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.

90 English

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. 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 328/528. Modernism. 3 cr. Theories and practices of "Modernism" (approx. 1900-1940). Emphasis on literary texts belonging to different genres with discussions including examples from other media (visual arts, music, performance, etc.) in an international context. Formal innovations as well as philosophical, psychological, and sociological preoccupations of several Modernist writers and artists will be covered.

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. Overview of history and structure of English and conventions of standard written English. Includes contemporary approaches to teaching grammar, usage, punctuation. Required for teacher certifi English majors/minors.

ENGL 346/546. Old English. 3 cr. Introduction to Old English language and literature.

ENGL 347/547. Grant and Proposal Writing. 3 cr. Invention and delivery of grants and proposals in the business, scientific, technical artistic, and educational arenas. Opportunity to write a grant proposal for a campus or community-based organization. Prereq: Completion of Freshman English requirement.

ENGL 348/548. Advanced Environmental and Science Writing. 3 cr. Produce a single well-researched popular or educational article related to science or the environment and prepare it for submission to a juried publication. Also, readings in the rhetoric and ideology of science writing, eco-criticism, social/environmental justice, ethics of science, history of environmental/science writing. Prereq: Freshman English and 248, or cons instr.

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 find a manuscript, 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. Advanced training and practice in workplace writing for business, industry, office, lab. Assuming writing is shaped by workplace culture

and ethics, collaboratively produce a few large technical documents in context of simulated and real consultations with local business/industry. Prereq: Freshman English and 254, or cons instr.

ENGL 355/555. Methods of Teaching Composition (Middle and Secondary). 2 or 3 cr. Teaching writing as a composing process; theory and practice for middle and secondary levels and for all subjects. Does not count toward English major/minor. Prereq: Admis to Prof Educ Prog (English) or cons chair.

ENGL 356/556. Methods of Teaching Literature (Middle and Secondary). 2 or 3 credits. Teaching literature as an exploratory process, beginning with reader response; theory and practice for middle and secondary levels. Does not count toward English major/minor. Prereq: Admis 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 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 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 374/574(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.

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 391/591 Biomedical Writing. 3 cr. Training and practice in the several writing genres common to the field of biomedical writing. Introduction to the theoretical, social, and environmental contexts within which the medical and health sciences function. Study biomedical-writing documents (both historical and current) as well as short literary works in which the ethical and theoretical frameworks within which biomedical communicators write will become clear.

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 394/594. Methods of Teaching Composition and Literature for Non-English Majors. 3 cr. Theory and practice teaching composition and literature at middle/secondary levels. May include 25-hours field experience with supervised observation and experience in middle/ secondary classrooms. Prereq: 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. GDR:HU2 by subtitle.

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 494. Senior Project. 1 cr. Develop, refine, and write reflective essay on role of English studies. Produce portfolio of materials to prepare for post-graduate employment or further education. Prereq: Sr st, English major.

ENGL 495. Senior Honors Project: Research. 3 cr pass/fail. Research and preparatory work for individually supervised project in literary scholarship, pedagogy, or creative writing developed in consultation with honors coord and a faculty reader. Does not count toward English major. Prereq: 24 cr in major beyond freshman English incl 12 cr in core; min 3.5 GPA in major; second semester jr st; acceptance of formal proposal by honors coord.

ENGL 496. Senior Honors Project: Product. 3 cr. Produce final draft. Present and defend product of individually supervised project in literary scholarship, pedagogy, or creative writing developed in 495. May count toward English major. Prereq: 495 and cons honors coord.

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 field experience 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. 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. English 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 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 760. Literature and the Human Experience. 3 cr. Literature as an instrument for understanding one's own experience.

ENGL 761. Seminar in English Literature. 3 cr. Subtitle will designate focus.

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 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. See full course description in indicated (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)
 281 African Literature, 3 cr,(07-09)
 362 World Literature, 3 cr, (07-09)
 364/564 Canadian Literature, 3 cr, (03-05)
 390/590 Independent Reading 1 cr, (01-03)
 397 Practicum, 1-3 cr, (03-05)
 498 Writing Internship, 1-6 cr, (01-03)
 551 Advanced Business Writing, 3 cr, (07-09)
 719 American Novel, 3 cr, (07-09)
 745 Censorship, 3 cr, (07-09)
 750 Writing Nonfiction, 3 cr,(07-09)
 752 Workshop in Fiction, 3 cr, (07-09)
 753 Workshop in Poetry, 3 cr, (07-09)
 756 Measuring Growth in English, 3 cr, (07-09)
 757 Writing Centers: Theory and Practice, 3 cr, (07-09)
 762 Seminar in American Literature, 3 cr, (07-09)
 772 Poetry: Forms, Functions, Meanings, 3 cr, (07-09)
 781 Reading in the English Classroom, 3 cr, (07-09)

Courses in English Education

E ED 396. English Education Practicum. 2 cr; pass/fail. Supervised observation and experience in secondary schools. Reflection on teaching experience. 60 hrs required for all English education majors. Prereq: Con reg in 355 and/or 356.

E ED 398. Student Teaching in English. 16 cr; pass/fail. Observation and teaching in the secondary school classroom under the guidance of cooperating teachers and university faculty.

E ED 400. Seminar on Teaching for Student/Intern English Teachers. 1-2 cr; pass/fail. Structured group discussion on aspects of teaching that emerge from full-time field experiences. Completion and evaluation of electronic portfolio. Prereq: Con reg in English Ed 398 or 498.

E ED 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. ENGLISH AS A SECOND LANGUAGE

For the ESL teacher certifiable minor and the bilingual add-on certification, see **Foreign Languages**. For intensive ESL courses for non-native speakers of English, see below.

English as a Second Language Program

Brad Van Den Elzen, Director
 Room 020, Student Services Center
 Phone: 715-346-3849
 E-mail: esl@uwsp.edu
 Web: www.uwsp.edu/esl

The English as a Second Language Program provides intensive English instruction for (a) international students who wish to improve their English skills and (b) those who want to attend an American university but whose English skills are not yet ready to compete in an academic setting. As a full-time student, you will attend 20 class hours per week at levels that are appropriate for your skills. The classes emphasize the development of academic English skills in the areas of reading, writing, listening/notetaking, and speaking. As a conditionally accepted student, you will complete upper-level ESL courses, and you may begin to enroll in university courses. After completing the entire ESL program, you may enroll full time in university courses.

92 Environmental Studies

Courses in English as a Second Language

ESL 062. Listening/Notetaking. 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 063. Listening/Notetaking. 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: 062 or placement.

ESL 064. Listening/Notetaking. 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: 063 or placement.

ESL 072. Oral Communication. 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 073. Oral Communication. 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: 072 or placement.

ESL 074. Oral Communication. Refine ability to interact in formal and large-group situations, develop ability to discuss current events and academic topics. Learn and practice strategies to give formal presentations in front of a group. Prereq: 073 or placement.

ESL 082. Reading. 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 083. Reading. 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: 082 or placement.

ESL 084. Reading. 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: 083 or placement.

ESL 092. Writing. Develop ability to write a paragraph on personal or subjective topics, learn editing strategies, and develop control of basic grammar and mechanics. Prereq: Placement.

ESL 093. Writing. Move from personal to objective writing in response to a source, expand editing strategies. Move from the paragraph level to being able to write short essays. Improve accuracy over a wider range of grammatical structures. Prereq: 092 or placement.

ESL 094. Writing. 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 to write longer, source-based essays. Prereq: 093 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 216, Collins Classroom Center
Phone: 715-346-4749
E-mail: jcoletta@uwsp.edu

Environmental Studies Minor

Consists of 24 credits:

- Core courses**, 6 credits:
 - Three credits from Biology 304, 305 (prereqs may count as electives), Natural Resources 150, 395, 474 or 478.
 - Three credits from English 363, 365, 392;
OR History 366, 394;
OR Philosophy 380.
- Required**: 9 credits from any **ONE** discipline below. Asterisk (*) courses require approval of coordinator **BEFORE** the semester and review of a portfolio of written work at the end of the semester.
 - Anthropology 342, 350, 373*, 395*, 499*.
 - Biology 304, 305, 308, 355, 405, 399*, 490*, 498*, 499*; (1 cr courses) 306, 384, 385, 386, 490*.
 - Economics 342, 299*, 315*, 374*, 490*, 495*.
 - English 358, 363, 365, 392, 383*, 390*, 399*, 498*.
 - Geography 302, 340, 344, 370, 372*, 373*, 391*, 393*, 395*, 399*, 490*.
 - Geology 330, 370, 383, 475, 479, 295*, 391*, 393*, 395*, 480*.
 - History 366, 368, 394, 290*, 399*, 490*, 495*.
 - Philosophy 380, 381, 395*, 399*, 490*, 499*.
 - Political Science 304, 308*, 314*, 320*, 376*, 396*, 455*, 490*, 498*, 499*.
 - Sociology 355, 356, 360, 312*, 327*, 357*, 373*, 395*, 497*.
- Electives**: 9 additional credits from any courses listed above or Art 380NW, Education 350, Natural Resources 150, 300, 395, 475, 478. Chemistry 101, 105, 106 may count with prior permission of coordinator.

ETHNIC STUDIES

See *History* and *Sociology* and *Native American Studies*.

ETHNOBOTANY

See *Anthropology* and *Biology*.

EXCEPTIONAL EDUCATION

See *Education*.

Experiential Learning Program

Kami Weis, Coordinator
 Room 103, Student Services Center
 Phone: 715-346-3361
 E-mail: kweis@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 advisor 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 review. 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 SCIENCES

See *Health Promotion and Human Development*.

FIELD EXPERIENCES

See *Education* for student teaching and teacher certification.

FILM

See *Communication*.

FISHERIES

See *Natural Resources-Fisheries and 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, T Barski, E Bauer, D Breining, R Craig-Odders, B David, M Mace, M Parker, K Prior, A Runnion, R Ruppel, R Sarma-Traynor, A Toumi.

The Department of Foreign Languages offers courses in Arabic, Chinese, French, German, Hmong, 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 481, 482, or 483.
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 481, (or in Spanish, 482 or 483), and 9 credits in coursework outside the department, selected with advisor approval.

94 Foreign Languages

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 481, 482, or 483.
4. Collateral courses, 9 credits from outside the department selected with advisor 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 481, 482, or 483.
3. Foreign Language Ed 333.
4. Foreign Language Ed 398 or 498 taken concurrently with Foreign Language Ed 400.

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)

The TESL minor consists of 22-29 credits. You must take the TESL minor in conjunction with teaching majors in early childhood, elementary education, K-12 majors, or secondary teaching majors.

1. Proficiency in English: Attain the minimum scores required by the Wisconsin Dept. 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 taking UWSP's foreign language placement test.
3. Required.
 - a. Three credits from English 342, 344, 345.
 - b. Communicative Disorders 266 or English 240.
 - c. Three credits from Anthropology 110, 325; History 288; Political Science 315; Psychology 322; Sociology 270, 327.
 - d. English courses:
 - 1) Early Childhood (ages 0-8) and Middle Childhood-Early Adolescence (ages 6-13):

- a. One course from English 274, 275
 - b. Education 309 and 310
- 2) English Majors – Early Adolescence – Adolescence (ages 10-21): English 375 – Literature for Adolescents, English 355 Methods of Teaching Composition OR English 356, Methods of Teaching Literature, English 381 – Reading for the English Teacher
 - 3) Non-English majors/Early Adolescence-Adolescence (ages 10-21): English 200, English 394 – Methods of Teaching Composition and Lit.; Education 386 – Reading in the Secondary School
 - e. Foreign Language Ed 344.
 - f. Foreign Language Ed 398 or 498 (at least 1 credit)

English as a Second Language Minor without Certification

Consists of a minimum of 16 credits (not including foreign language requirements).

1. Prerequisites.
 - a. Demonstrated proficiency in English.
 - b. Two semesters of college-level foreign language (8 credits) or equivalent high school experience demonstrated by taking UWSP's foreign language placement test.
2. Required.
 - a. Three credits from English 342 or 344.
 - b. Three credits from Communicative Disorders 266; or English 240.
 - c. With ESL advisor approval, choose one course from Anthropology 110, 325, 335; French 481; German 481; History 288, 393; International Studies 393; Religious Studies 100; Sociology 270, 327; Spanish 481, 482, 483.
 - d. One course from English 200, 211, 212, 213, 275, 375, or Comparative Lit 101, 102.
 - e. Foreign Language Ed 333 (with ESL advisor approval) or 344.
 - f. Foreign Language Ed 397, 1-3 credits.

Academic Standards (Teaching)

1. **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- 8 credits), Foreign Language Ed 400 (1-2 credits), and receive an assignment at the grade level for which you are seeking certification.
2. **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. 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.

Courses in (General) Foreign Language

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 Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

499 Independent Study, 1-4 cr, (07-09)

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 admis 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 admis 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 admis 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 Arabic

ARBC 101(NW). First Year Arabic. 4 cr. For students with no previous training in the language. GDR:FL BA BM/BFA

ARBC 102(NW). First Year Arabic. 4 cr. Continuation of 101. Prereq: 101 or by placement exam. GDR:FL BA BM/BFA

ARBC 211(NW). Second Year Arabic. 4 cr. Intensive grammar review, practice in reading and speaking Arabic. Prereq: 102 or by placement exam.

ARBC 212(NW). Second Year Arabic. 4 cr. Continuation of 211. Prereq: 211 or by placement exam.

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; 201. 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 by ability. Prereq: 102 for 200; 200 for 201; 201 for 300; 300 for 301.

Chinese Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

300; 301. Continuing Chinese, 4 cr, (07-09)

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 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 345. Advanced Conversation and Composition (formerly 317). 3 cr. Subtitle will designate focus. May repeat once for credit with different subtitle. Prereq: 313 and 314, or cons chair.

FREN 355. French for the Professions (formerly 318). 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 420. Phonetics and Diction (formerly 320). 3 cr. Prereq: 212, or by placement exam.

FREN 441. Survey of French Literature (formerly 341). 3 cr. French literature to 1800. Prereq: 340 or cons instr.

FREN 442/642. Survey of French Literature (formerly 342). 3 cr. 19th century French literature to the present. Prereq: 340 or cons instr.

FREN 450. 17th Century Literature (formerly 350). 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr.

FREN 455. 18th Century Literature (formerly 355). 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr.

FREN 460. 19th Century Literature (formerly 360). 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr.

FREN 470/670. 20th Century Literature (formerly 370). 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr.

FREN 481/681. French Culture and Civilization (formerly 381). 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.

FREN 499. Independent Study. 1-4 cr. Individual study under faculty supervision. Prereq: Cons chair.

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

96 Foreign Languages

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.

GER 243. German Literature in Translation. 3 cr. Selected readings; subtitle will indicate focus. May repeat for credit with different subtitles. Does not count toward German major/minor. Prereq: So st or cons instr.

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 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 345. Advanced Conversation and Composition (formerly 317). 3 cr. Subtitle will designate focus. May repeat once for credit with different subtitle. Prereq: 313 and 314, or cons chair.

GERM 355. German for the Professions (formerly 318). 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 420. Phonetics and Diction (formerly 320). 3 cr. Prereq: 212, or by placement exam.

GERM 455. 18th Century Literature (formerly 355). 3 cr. Selected readings. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr.

GERM 460. 19th Century Literature (formerly 360). 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr.

GERM 470/670. 20th Century Literature (formerly 370). 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr.

GERM 481/681. German Culture and Civilization (formerly 381). 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.

Courses in Hmong

HMNG 101(NW). First Year Hmong. 4 cr. For students with no previous training in the language or by placement. GDR:FL BA BM/BFA

HMNG 102(NW). First Year Hmong. 4 cr. Continuation of 101. Prereq: 101 or by placement exam. GDR:FL BA BM/BFA

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. See full course description in indicated (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. See full course description in indicated (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 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.

Russian Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

216 Continuing Russian, 4 cr, (07-09)

316 Continuing Russian, 4 cr, (07-09)

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 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 345. Advanced Conversation and Composition (formerly 317). 3 cr. Subtitle will designate focus. May repeat once for credit with different subtitle. Prereq: 313 and 314, or cons chair.

SPAN 355. Spanish for the Professions (formerly 318). 3 cr. General knowledge of writing and reading material associated with the professions in Spanish-speaking countries, emphasizing cultural differences between U.S. and other countries. Example: writing business letters and preparing business-related documents. Subtitle designates focus. May repeat for credit once with different subtitle. Prereq: 313 and 314, or cons instr.

SPAN 420. Phonetics and Diction (formerly 320). 3 cr. Prereq: 212, or by placement exam.

SPAN 441. Survey of Spanish Literature (formerly 341). 3 cr. Spanish literature from the earliest works to 1800. Prereq: 340 or cons instr.

SPAN 442. Survey of Spanish Literature (formerly 342). 3 cr. Spanish literature from 1800 to the present. Prereq: 340 or cons instr.

SPAN 453. Survey of Spanish American Literature (formerly 353). 3 cr. From chronicles to modernism. Prereq: 340 or cons instr.

SPAN 454. Survey of Spanish American Literature (formerly 354). 3 cr. From modernism to the present. 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 481. Spanish Culture and Civilization (formerly 381). 3 cr. Subtitle will designate focus. May be repeated for credit with different subtitles. Prereq: 340 or cons instr. GDR:HU4

SPAN 482(MNS). Hispanic Culture and Civilization in the U.S. (formerly 382). 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 483(NW). Spanish American Culture and Civilization (formerly 383). 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr. GDR:HU4

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 Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

451/651 Cervantes, 3 cr, (01-03)

460 19th Century Spanish Literature, 3 cr, (03-05)

470/670 20th Century Spanish Literature. 2-3 cr, (07-09)

471 20th Century Spanish-American Literature, 2-3 cr (07-09)

FOREIGN STUDENT PROGRAM

See *English as a Second Language Program*.

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

See *American Studies*.

GEOGRAPHIC INFORMATION SYSTEMS

See *Geography*.

Geography

(College of Letters and Science)

Keith Rice, Chair of Geography/Geology Department

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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 40 credits (43 credits for the Urban Planning Option) 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, 22 credits: Geography 101, 120, 276, 279, 280, 390, 480(3 cr) or 485(3 cr) or 490 or 491 or 496 (required for urban planning option).

Select one option:

1. **Physical Environment option:**
 - a. Geography 340 or 344; two of 352, 353 or 354, and 358; 377 or 476.
 - b. Six additional credits selected from: Geography 340, 344, 352, 353, 354, 358, 371, 377, 379, 393 (physical geography topics, 3 cr max), 476; Geology 330, 370, 393 (3 cr max).
 - c. Recommended courses: Biology 305; History 280; Philosophy 380; Political Science 304; English 248 or 254.
2. **Geographic Information Science (GIS) and Cartography option:**
 - a. Geography 377, 379, 382, 476, 479.
 - b. Geography 376 or 386 & either 477, 481 or 482.
 - c. Recommended courses: Geography 376, 386, 477, 481, 482 (whichever was not taken in b. above); Web and Digital Media Development 250, 307, 308, 310; Computer Information Systems 115-116, 210, 211, 345.
3. **Urban Planning option:**
 - a. Geography 364, 373, 388 or NRES 388, 389 or NRES 389, 476, 493.
 - b. Three additional credits selected from: Geography 344, 374, 477; NRES 488; Political Science 341, 397; Sociology 365; Soil 365.
 - c. Recommended courses: Economics 311, 362, 374; Geography 340, 344, 369, 371, 374, 379, 477, 479, *Geography 300 or 327 or 328 or 329*; Geology 330; Math 355; Natural Resources 340, 395, 488 (if not taken in b. above); Sociology 340, 356, 357, 360, 365 (if not taken in b. above); Political Sci 242, 341, 356, 358, 397; Soils 365 (if not taken in b. above).
4. **Human Geography option:**
 - a. Geography 366 or 369.
 - b. Six additional credits selected from: Geography 366, 369 (whichever was not taken from option a. above), 373, 374.
 - c. Nine additional credits selected from: Geography 211 (required for teacher certification), 226, 300, 301, 302, 325, 328, 329, 365, 366, 369, 373, 374, 382, 391 (when offered as a human geography topic), 393 (when offered with a human geography emphasis), 395, 399, 476, 479.
 - d. Recommended courses: Sociology 300, 356, 360; Political Science 315, 341; Economics 342, 362, 374; History 280, 292, 385, 393.

Geography Major for Teacher Certification

Geography 101, 113, 120, 211, 276, 280 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.

98 Geography

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, 113, 120, 211, 276, 280. See the note above regarding enrollments caps for teacher certification.

Environmental Geography Minor

Consists of at least 23 credits

1. Required core, 17 credits: 100, 101, 120, 340, 366.
2. **Physical environment course:** 3 credits from Geology 330; Geography 344, 354, 358; or courses approved by advisor and chair.
3. **Human environment course:** 3 credits from 365, 369, 373, 374; or courses approved by advisor and chair.
4. Recommended courses: Philosophy 380; Natural Resources 460.
5. Geography majors with a physical geography option may choose the Environment Geography minor, but must take two additional physical geography courses which do not overlap with the major and minor.
6. Geography majors with a human geography option may choose the Environment Geography minor, but must take two additional human geography courses which do not overlap with the major and minor.

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 2.00 (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 are admitted as an approved major or minor; otherwise you are a provisional 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.
2. If you do not maintain a 2.00 GPA, you will be placed on geography probation and will have 2 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 2.00 GPA. However, it is your responsibility to know your own GPA status.
3. Majors must have an advisor 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 advisor 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 advisor 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 advisor and chair.
4. Geography majors with the GIS and 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 2.00 for all courses taken in the minor, including collateral courses and regardless of a declaration of academic bankruptcy.
 - b. You must complete Geography 279 before you are admitted as an approved minor; otherwise you are a provisional minor.
 - 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.
 - e. If you do not maintain a 2.00 GPA, you will be on probation for the minor and will have 2 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 2.00 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 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). Human 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 280. Seminar: Geography as a Profession. 3 cr. Examine geography in professional practice. Includes disciplinary history, programs of study, careers, information resources, current research. Required during first year after declaring major/minor. Prereq: Declared major/minor, or cons instr.

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 325/525 (NW). Geography of China. 3 cr. Historical development and contemporary situation of human cultures and regions of China. Explore interrelationships between population, ethnicity, economic activities and the environment in a geographic context. GDR: SS1

GEOG 327/527 (NW). Asia. 3 cr. Study historical development and contemporary situation of human cultures and regions of Asia. Explore interrelationships between population, ethnicity, economic activities and the environment in a geographic context. GDR:SS1

GEOG 328/528. Europe. 3 cr. Distinctive features of Europe as a continent; physical/historical background; natural regions and their division into political units; 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 335/535. Climate: Past, Present, and Future. 3 cr. Explore the physical and theoretical underpinnings of climate change science. Field and laboratory methods combined with computer model simulations are used to investigate the geological and biological evidence of past, present, and future climate including global warming and its impacts. Field trip(s) required. May not earn credit in both 335/535 and Geology 335/535. Field trip(s) required.

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 350. Physical Geography of New Zealand. 3 cr. Examine basic physical environmental processes that form and drive the physical environment of New Zealand and resulting geographic environmental patterns. How human activities affect and are affected by natural systems. Develop geographic skills through lab and field work. May require field trips. Offered only during New Zealand semester abroad. GDR:NS

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 355. 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 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 364. Planning Theory and Process. 3 cr. Review of historical development of planning theories as they relate to planning practice in select cities in the US and the world. Emphasis on the origin and evolution of planning, and key issues that have confronted planning interventionists in developing solutions to fundamental problems of urban areas. Prereq: con instr.

GEOG 365/565. Tourism Geography. 3 cr. Cultural, economic, physical, and biotic factors affecting the distribution of recreation and tourism resources and participation. Global as well as local case studies and examples employed. Field trip(s) required.

GEOG 366/566. Historical Geography. 3 cr. Examine the problems of reconstructing past geographies and analyzing changes of geographic phenomena through time. Includes construction and analysis of historical spatial databases. Field trip(s) required. GDR: SS1

GEOG 369/569. Political Geography. 3 cr. Geographical interpretation of selected political areas; the political significance of cultural and physical aspects of such areas. GDR: SS1

GEOG 370. Transportation and Logistics. 3 cr. Survey/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. 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, livelihood structures of cities. Possible field trip(s). Prereq: 110 or 120, or cons instr. GDR: SS1

GEOG 374/574. Rural Geography. 3 cr. The influence of locational characteristics on the social and economic components of the rural environment. Field trip(s) required. GDR: SS1

GEOG 376. Statistical and Multimedia Cartography. 3 cr. Statistical manipulation and symbolization of spatial data for map presentation. Acquire and handle quantitative data within a multimedia mapping environment. Prereq: 276 or cons instr.

GEOG 377. Remote Sensing I. 3 cr. Characteristics of aerial photographs and digital imagery. Use remote sensing materials to conduct resource inventories, and land use evaluation, and landform analysis. 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.

100 Geology

GEOG 379/579. Remote Sensing II. 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. Possible field trip(s). Prereq: 377 or Natural Resources 377.

GEOG 382/582. Dynamic Cartography. 3 cr. Theory and practical applications of interactive mapping and hypermedia presentation. Survey of animated mapping, Web-based cartography, dynamic map displays and associated authoring tools within a multimedia environment. Prereq: 276 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 388/588. Introduction to Urban and Regional Planning. 3 cr. Historical evolution of urban/regional planning. Theories, ideologies, philosophies, and functional areas of planning. Also primary plan implementation tools. May not earn credit in both Geog 388/NRES 388.

GEOG 389/589. Urban and Regional Planning Analysis. 3 cr. Research methods for urban and regional planning. Design and implementation of citizen surveys. May not earn credit in both Geog 389 and NRES 389. Prereq: 373, 388 or NRES 388, Math 355 or Forestry 321 or Sociology 351, or cons instr.

GEOG 390. Applied Statistics in Geography. 3 cr. Survey geographic problems and quantitative problem solving methods; create or extract relevant data sets from published geographic resources; apply, interpret, and present appropriate spatial and nonspatial statistics. Prereq: 276, 279; Math 355 recommended.

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 477/677. GIS Applications in Local Government. 3 cr. Administration of land records and emergency management services using GIS technology. Fundamentals of GIS-based network and location analysis in relation to cadastral maps, zoning regulations, health ser-vices and emergency service infrastructure. Prereq: 476 or cons instr.

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 for 12 cr max. Prereq: Jr or sr st, 9 cr 300/400 geography courses, and cons intern director.

GEOG 481/681. GIS Database Design and Modeling. 3 cr. Effectively construct, integrate, design and implement geodatabases. Examine storage, cataloging, maintenance and use of geospatial data within practical applications. Prereq: 476, 479 or cons instr.

GEOG 482/682. GIS Programming and Customization. 3 cr. Customize GIS software for extended functionality and utility of the import, query, and display of geospatial information. Use and survey GIS programming languages to develop spatial applications and geographic models. Prereq: 476, 479 or cons instr.

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: 280 and sr st.

GEOG 491. Senior Thesis. 3 cr. Individual capstone experience for geography majors seeking graduate or professional study. Define geographical problem, devise and pursue solution. Communicate findings in written paper and oral presentation. Prereq: Cons 2 faculty. May extend over two consecutive semesters. Prereq: 280, dept GPA 3.50, sr st.

GEOG 493. Professional Practice/Planning Ethics. 3 cr. Explore ethical issues that arise in professional practice such as conflict of interest, social justice, public responsibility and fairness. Develop skills in identifying ethical challenges in planning practice and how to respond to them without compromising professional integrity. Prereq: 364 or con instr.

GEOG 495/695. Advanced Urban and Regional Planning Analysis. 3 cr. Advanced techniques/methods of urban/regional planning. Social and economic analysis. Includes population analysis, income measures, linkages and flow studies, economy composition analysis, economic base analysis, input-output, project evaluation, and geographic information systems applications. Prereq: 279, 389 or NRES 389, or cons instr.

GEOG 496/696. Community Development Practices. 3 cr. Processes and interactions between citizens, community officials, and planners in designing, planning, and implementing community development projects. Social and economic development projects and programs. May require fieldtrip(s). Prereq: 373, 388 or NRES 388, or cons instr.

GEOG 779. Geographic Techniques for Educators and Professionals. 1-3 cr. Teachers/professionals examine, develop, and apply one or more spatial technique(s). Acquisition/assessment of spatial data, computer-based geographic data handling, aggregation, translation, analysis, interpretation and mapping of geographic information. Possible fieldtrip(s). Subtitle will designate topic.

Geography Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

108/308	Environmental Issues through Films, 2 cr, (93-95)
110	Global Economic Geography, 3 cr, (07-09)
226	United States and Canada, 3 cr, (07-09)
375	Mineral Resources, 3 cr, (93-95)
380	Geographical Analysis, 3 cr, (05-07)

Geology

(College of Letters and Science)

Keith Rice, Chair of Geography/Geology Department
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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, 310, 320.
2. Either Geology/Geography 352 or Geology 370.
3. Remaining credits to total 22 selected from Geology 330, 335, 352*, 370*, 383, 385, 391, 393 (max 3 cr), 395, 479, 487, 495; Geography 279, 352*, 390, 393 (provided cross-listed with Geology, max 3 cr), 377 or 476, Biology 311.
*If not taken in 1-2 above.

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 2.00 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 are admitted as an approved minor; otherwise you are a provisional 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.
2. If you do not maintain a 2.00 GPA, you will be placed on geology probation and will have 2 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 2.00 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 310/510. Sedimentary Geology. 3 cr. Origin, evolution, and classification of sedimentary rocks and surficial deposits; modern and ancient depositional systems; stratigraphic principles; resource significance of sedimentary deposits. Possible field trip(s) Prereq: Geol 104, or cons. instr.

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 335/535. Climate: Past, Present, and Future. 3 cr. Explore the physical and theoretical underpinnings of climate change science. Field and laboratory methods combined with computer model simulations are used to investigate the geological and biological evidence of past, present, and future climate including global warming and its impacts. May not earn credit in both 335/535 and Geography 335/535. Field trip(s) required. Pre req: 101; Geol 104 and 106, or cons. instr.

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. Hydrologic budgets, occurrence and movement of groundwater, flow net analysis, well hydraulics and interpretation of aquifer pumping tests, well head protection. 2 hrs lec, 2 hrs lab per wk. May not earn credit in both Geology/Water 383. Prereq: 104 or cons instr.

GEOL 385/585. Geologic Site Investigations. 2 cr. Site investigation design; drilling, sampling, and well installation; description and classification of rock cores and sediment samples; analysis and interpretation of subsurface geologic data. (II) Prereq: 104, 383 or Water 383, or cons instr.

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 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 Course: Not offered recently. See full course description in indicated (xx-xx) catalog.
391/591 Special Topics, 1-3 cr, (03-05)
475/675 Groundwater Management, 1 cr (07-09)

Geoscience (College of Letters and Science)

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Faculty: K Hefferan, N Heywood, E Larsen, K Lemke, D Ozsvath, K Rice, M Ritter, K Ryavec.

Geoscience Major

Consists of a minimum of 41-59 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, 15 credits: Geology 104, 106, 200, 310, 320.

Select one option:

1. **Environmental Analysis Option** (48 credits):
 - a. Geography 101, 276, 335 or Geology 335, 377, 379, 476, 479.
 - b. Six additional credits selected from: Geology or Geography 352, Geology 330, 370, 383, 393; Geography 340, 344, 354, 376, 382, 386, 390.
 - c. Math 355.
2. **Earth Systems Science Option with Earth Science Teaching Certification** (41 credits):
 - a. Geography 101, 393 (minimum of 2 crs).
 - b. Six additional credits selected from : Geology or Geography 352, Geology 330, 370, 383; Geography 340, 344, 354.

102 Health, Exercise Science, & Athletics (HESA)

- c. Astronomy 311.
- d. Chemistry 101.
- e. Physics 101.
3. **Hydrogeology Option** (54-64 credits):
 - a. Geology 352 or Geography 352.
 - b. Geology 370, 383, 385, 393 (1-3 crs), 487.
 - c. Geography 279, 476, 479.
 - d. Chemistry 105 and 106, or 117.
 - e. Mathematics 111 or 118.
 - f. Physics 201 and 202; or 203 and 204.

Academic Standards

To be admitted, retained, and approved for graduation as an approved Geoscience major, you must have a minimum cumulative grade point average of 2.00 (2.75 to student teach in Geoscience) for all courses taken within the major, including collateral courses and regardless of a declaration of academic bankruptcy.

- You must complete Geology 104 before you are admitted as an approved major; otherwise you are a provisional major.
- If you transfer and have no credits earned at UWSP in the major, you will be a provisional major until you complete the minimum requirements.

If you do not maintain a 2.00 GPA, you will be placed on geoscience probation and will have two semesters to restore your GPA. If you fail to do so, you will be dropped from the major. The department will attempt to notify and consult with students who are at or below a 2.00 GPA. However, it is your responsibility to know your own GPA status.

Majors must have an advisor in the department. Any department faculty member may advise a geoscience major. You must file a major declaration form in the department office, keep it current, and confer with your advisor every semester.

You may repeat a course in the major only if you follow the policy on repeating courses found in the **Major Academic Information** section of the UWSP Catalog.

Geography and geology courses taken at the 300 or 400 level on a pass/fail basis do NOT count toward the major.

Test-Out and Credit-by-Exam Policy

The Department of Geography/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.

A student wishing to take a test-out examination will confer with the Department chairperson. The chairperson will direct the student to the appropriate faculty member(s) who will administer the examination. Normally this will be the faculty member who has most recently taught the course. The comprehensive written examination will be based on material normally covered in the course including questions from lecture and, if applicable, laboratory topics. The faculty member will notify the student in writing of the required minimum passing score prior to administering the examination; a score equivalent to the most recent class average for the course is generally considered to be the minimum passing grade. Results of the test-out examination will be provided in writing to the student within two weeks after taking the examination.

Credit will not be granted for Geography 100 and Geology 100, but students will receive a waiver for the corresponding GDR credits. Credit will be granted for all other geography and geology courses listed above. Students may take a test-out examination only once. The Department assumes no responsibility for preparing students for test-out examinations, but maintains copies of current course syllabi for perusal.

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**.

HEALTH CARE

See **Health Sciences**.

HEALTH EDUCATION

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

Health, Exercise Science, & Athletics (HESA)

(College of Professional Studies)

Rory Suomi, 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. The UWSP Physical Education major prepares students for a K-12 Teaching Certification License(#530).

Athletic training is a medical profession specializing in health care for active populations, 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 exceptional individual, adventure education).

Abbreviations:

ADVE = Adventure Education

AT = Athletic Training

ATEP = Athletic Training Education Program

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

PEP = Professional Education Program

PEX = Physical Education for the Exceptional Individual

WLNS = Wellness

Physical Education Major for Teacher Certification (K-12)

Enrollment/Retention Standards: Enrollment caps for physical education majors are determined by the School of Education (20 per year). If you wish to transfer into physical education from a different UWSP major, you must have a 2.75

cumulative grade point average. **New** All students must follow these requirements:

1. **Freshmen:** Complete a minimum of 30 credits with a 2.50 GPA. These credits include P ED 105, 150; 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 200, 201, 260.
2. **Sophomores:** Complete 60 credits with a 2.60 GPA. By the end of the sophomore year complete P ED 105, 150, 200, 201, 220, and 271.
3. **Juniors:** When enrolled in P ED 260, apply to the Professional Education Program (PEP). Prerequisites for P ED 331 are acceptance into the School of Education and director consent.

Physical Education Major: Consists of 47 credits:

1. **Required:** P ED 105, 150, 200, 201, 220, 260, 271, 310, 315, 331, 332, 370, 380, 391, 428; HP/W 312; PEX 400, 401; WLNS 205.
2. **Collateral requirements:**
 - a. Laboratory science: Biology 160, 285; Chemistry 101 or Physics 101.
 - b. GDR requirements for DPI certification: History 176 and 177; Psych 110; Poli Sci 101; one fine arts course (HU1); one literature course (HU2).
 - c. First Aid/CPR: WLNS 123.
 - d. Education 205, 351, 381, 386, P ED 398, 400.
 - e. GPA of 2.75 in physical education courses.
 - f. WLNS 146 is recommended to increase employment opportunities.
3. **Admission requirements for acceptance into the School of Education:** Incoming freshmen and transfer students are "premajors." To become an accepted major follow these procedures:
 - a. Before you apply, complete with a grade of C- or better or be enrolled in the following: P ED 105, 150, 200, 201, 220, 271; Biology 160; Chemistry 101 or Physics 101. Note: P ED 105 and 220 must be taken at UW-Stevens Point.
 - b. Have 2.75 GPA in all credits attempted.
 - c. Apply to the School of Education and to the Physical Education Department for acceptance into the Professional Education Program (PEP) when courses in 3a above are complete and you are enrolled in PE 260. "Premajors" must meet the PEP admission criteria listed under Education in this catalog. "Premajors" have two opportunities to apply to the Professional Education Program. Failure to apply during enrollment in 260 will result in the forfeiture of one of the two opportunities for admittance to PEP. Failure to meet the School of Education criteria for admittance to PEP when enrolled in 260 will result in denial.
 - d. Candidates must complete the application form for PEP from the Education Advising Office in CPS. In addition, candidates must submit a separate set of application materials to the Physical Education Department. Prospective PEP candidates will be ranked by the Physical Education Department on Wisconsin Teaching Standards, cumulative GPA, PPST scores, personal statement/reflection, resume, and the Pre-Professional Interview. The GPA and personal statement/resume will be assigned a higher weight in the total rankings.
 - e. Candidates may appeal if denied admission to the program. You may contact the School of Education regarding the appeal process.
 - f. Available seats in the School of Education will determine the number of majors accepted.
 - g. You must be accepted into the School of Education or have completed one attempt before you can enroll in P ED 310, 331, 370, 380, 391, 428; PEX 400, 401; HP/W 312.

4. 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.
5. Upon acceptance into the School of Education you must complete all major courses with a C- or better.
6. To repeat a course, follow UWSP policy. The last grades for repeated courses will be calculated into your GPA. (Credit for 199, 299, 399 does NOT count in the cumulative GPA required for admission.)

Athletic Training Major

Holly Schmies, Coordinator
 Room 129 Health Enhancement Center
 Phone: 715-346-2922
 E-mail: hschmies@uwsp.edu
 Web: www.uwsp.edu/hesa/athtraining

Faculty/Staff: A Brugge, M Koroch, H Schmies, R Verdegan, D Wedeking, N Weiler.

Medical Directors: James Banovetz, MD, PhD;
 Daniel Kraeger, DO, ATC

Athletic Training Major

1. **Academic Program:** Complete the following.
 - a. Requirements for Bachelor of Science or Bachelor of Arts degree.
 - b. AT 181, 182, 200, 201, 251, 300, 301, 302, 303, 362, 370, 380, 381, 382, 400, 401, 420, 425, 430, 435; COAC 372; FN 253; CLS 295; P ED 271, 310, 362; HP/W 312.
 - c. Collateral requirements: BIO 160, 285; CHEM 101; HP/W 102; HD 265; MATH 355; PHYS 101; PSYC 110; WLNS 123.
2. **Clinical Practicum:** As an ATEP student you must complete clinical rotations as a requirement of the practicum courses (AT 201, 300, 301, 302, 400, and 401). You will gain clinical experience in the following settings or activities:
 - a. UWSP Athletic training facility.
 - b. Clinical/high school/industrial.
 - c. Lower extremity intensive.
 - d. Upper extremity intensive.
 - e. Equipment intensive.
 - f. General medical.
3. **Clinical Rotations:** Throughout the six semester curriculum program, you will complete a minimum of 1,200 clinical rotation hours under direct supervision of a NATABOC certified athletic trainer within the practicum courses.

Accreditation: The UWSP athletic training education program is accredited by the Commission on Accreditation of Athletic Training Education. You may contact them at CAATE, 2201 Double Creek Drive, Suite 5006, Round Rock TX 78664; phone 512-733-9700; caate@sbcglobal.net.

Affiliation Agreements: UW-Stevens Point has affiliation agreements with various medical facilities and schools in the area to provide clinical practicum education for students. The approved clinical instructors of the affiliated sites are given courtesy appointments as university associates or volunteers. The affiliation agreements are with clinics and hospitals in the Central Wisconsin area and their contracted high schools for athletic training coverage.

Academic Standards

Admission requirements: Incoming freshmen and transfer students who declare athletic training are "premajors."

1. Before you apply to the program, complete or be in progress with good standing in the following: AT 181, 182, BIO 160, HP/W 102, PHYS 101, PSYC 110, WLNS 123 – all with a grade of C or better.

104 Health, Exercise Science, & Athletics (HESA)

- If your application is denied, you may reapply. 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.
- Prior to each clinical rotation, provide a medical statement indicating you have been examined and are free of tuberculosis.
- Supply verification of student personal liability insurance prior to affiliated rotations.
- Apply before March 1. Admission decisions are provided in writing by April 1.
- Complete athletic training (AT) courses at UW-Stevens Point.
 - Transfer courses in athletic training from other accredited UW System programs may be accepted. However, transfer students must realize that additional courses may be required to meet program competencies and proficiencies.
 - 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.
- When you are accepted into the athletic training major, you must provide verification of current physical examination by an approved, licensed health care provider (MD, DO, PA, CNP). Include verification of physical health status, freedom from communicable disease and appropriate immunization history including hepatitis B (or signed declination statement), measles, mumps, rubella, tetanus, varicella, and diphtheria.
- When accepted, you must complete a background study as required by regulations in Wisconsin Administrative Code Chapter HFS 12.

Retention Standards

- Maintain 3.0 GPA in major and collateral coursework.
- Maintain 2.75 cumulative GPA in all credits attempted.
- Maintain 3.0 (5.0) clinical evaluation scores. (Student athletic training 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 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. (Credit for 199, 299, 399 does NOT count in the cumulative GPA required for admission.)

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 Board of Certification examination.
- If you are denied acceptance into the program, you may not enroll in athletic training courses. You may contact the chair of HESA for appeal procedures. Appeals are handled by the HESA Appeals Committee.

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 24-25 credits:

- Biology 285; HLED 104, 140, 250, 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.

Strength and Conditioning Minor

This minor is offered through Health Promotion and Human Development (HPhD). It consists of 22 credits: Coaching 372; FN 450; HP/W 312, 360, 430; P ED 271, 310, 410.

Adapted Physical Education

860 Add-On Certification

(Physical Education for Exceptional Individual)

To receive the 860 add-on certification, complete this sequence with the physical education (K-12) teaching major. Take PEX 400, 401, 415, 445, 460, and Educ 351.

Test-Out and Credit-by-Exam

Test-out credit is available for all courses meeting general degree requirements 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 HEC). 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 HEC). 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. Gain knowledge and skills to become a competent emergency care provider in remote settings. Lecture and hands-on practice will provide experience necessary to make critical decisions. 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/kayaking. Trip leading and facilitation skills. Prereq: ADVE 150, WLNS 146.

ADVE 325. Management of Top-Rope Climbing. 3 cr. Techniques for managing 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: ADVE 150, 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. Prereq: ADVE 150.

ADVE 397/597. Workshop in Adventure Education. Variable cr. Subtitle will designate area. May repeat with different subtitle for 6 cr max.

ADVE 399. Special Work. 1-3 cr. Upperclass adventure ed minors or physical education and health promotion majors may arrange for independent study with cons instr/coord. Credit based on scope of project. Must file statement with HESA chair before beginning.

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. Work with K-12 students, CWES groups, peer groups, Lions Camp groups. Plan/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. Prereq: Con reg in 181 and intent to major in AT.

AT 200. Emergency Response to Injury and Illness. 3 cr. Gain awareness of common safety principles, universal precautions, predisposing factors and common causes of injury and illness related to athletic injury. Practical application of emergency medical techniques for life-threatening situations and acute trauma. Create and understand emergency action plans. Attain CPR/AED certification for the health care provider. Prereq: 181, 182; admis to prog.

AT 201. Practicum I. 1 cr. Practical application of proficiencies in AT 251: anthropometrics measurements, environmental conditions, protective devices, identification of signs/symptoms of acute injury, and techniques for prevention of injury/illness. Also includes supervised clinical hours and practical examinations. Prereq: Con reg in 251.

AT 251. Prevention and Care of Injury and Illness. 2 cr. Introduction to appropriate care/treatment for acute injuries and illness; preventive principles including conditioning, fitness, nutrition, bracing and equipment fitting, preparticipation physical exams and environmental conditions. Prereq: Admis to prog and current CPR/First Aid certification.

AT 300. Practicum II. 1 cr. Practical application of proficiencies in AT 370 for lower extremity orthopedic evaluation. Also includes supervised clinical hours, learning over time experiences, and practical examinations. Prereq: 200, 201, 251; con reg in 370.

AT 301. Practicum IV. 1 cr. Practical application of proficiencies in AT 380. Orthopedic evaluation of upper extremity including abdomen/thorax/head and face Also includes supervised clinical hours, learning over time experiences, and practical examinations. Prereq: 300, 370; con reg in 380.

AT 302. Practicum V. 1 cr. Practical application of proficiencies in AT 381 including functional therapeutic progressions for upper/ lower extremities, neuromuscular control and proprioception, spine stabilizations and abdominal/core training, joint mobilizations, gait analysis and biofeedback. Also includes supervised clinical hours, learning over time experiences, and practical examinations. Prereq: P ED 362, AT 362; con reg in 381.

AT 303. Functional Anatomy. 2 cr. Functional anatomy using regional approach to human body to prepare for orthopedic evaluation and rehabilitation courses. Understanding structure and function in relation to orthopedic injury, arthokinematics, and neurology. Lec/lab using a cadaver, diagnostic images, and computer programs. Prereq: P ED 271 and 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 athletes. Prereq: Coaching 200 and WLNS 123.

AT 362. Practicum III: Human Body Movement. 2 cr. Biomechanical understanding of how forces affect the body during exercise and sport.

Practical application of proficiencies in P ED 362 including strength and conditioning, cardiovascular and endurance, power, and anthropometric principles associated with active populations. Prereq: P ED 310, 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. 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 coord. Credit based on scope of project. Must file statement with HESA chair before beginning.

AT 400. Practicum VI. 1 cr. The first of two capstone courses to serve as a comprehensive review of the skills necessary of the competent entry-level athletic trainer. Focus on skills in emergency room care, risk management, and recognition and assessment of injury. Also includes supervised clinical hours, learning over time experiences, and practical examinations. Prereq: 381, 382; con reg in 425.

AT 401. Practicum VII. 1 cr. The second of two capstone courses to serve as a comprehensive review of skills necessary of the competent entry-level athletic trainer. Focus on skills and knowledge in prevention, therapeutic modalities, and therapeutic rehabilitation. Also includes supervised clinical hours, learning over time experiences, and practical examinations. Prereq: 400, 425; con reg in 430.

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. Examination of general medical conditions and auto-immune diseases related to injury/illness in the active population. Use of diagnostic instruments and common signs and symptoms will also be covered. Prereq: 381, 382; con reg in 400.

AT 430. Therapeutic Interventions of Injury and Illness. 3 cr. Examination of principles, theory and techniques for treatment of various conditions in the active populations including diagnostic testing, surgical techniques, pharmacology, and psychosocial illness. Instruction and evaluation based on use of pharmacological resources, policy development and referral networks for psychosocial illnesses and other skills related to therapeutic interventions. Prereq: 400, 425; con reg in 401.

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 282-290. Coaching 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; 290. Volleyball.

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.

106 Health, Exercise Science, & Athletics (HESA)

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 scope of project. Must file statement with HESA chair before beginning.

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 full course description in indicated (xx-xx) catalog.

289 Coaching Swimming, 2 cr, (07-09)
291 Coaching Tennis, 2 cr, (07-09)
292 Coaching Gymnastics, 2 cr, (07-09)
293 Coaching Golf, 2 cr, (07-09)
294 Coaching Sports Modules, 2 cr, (07-09)
790 Seminar in Current Issues, 1-3 cr, (01-03)

Courses in Health Education

HLED 104. Current Health Issues. 3 cr. Using the SPECIES model of wellness, consider current issues of mental-emotional health, aging, death and dying, communicable and chronic diseases, fitness, consumer health, personal health, safety and accident prevention, violence-bullying, and environmental health.

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 250. Teaching Methods for Middle/Secondary Schools. 3 cr. Use approved methods and materials for teaching health from middle school through grade 12; apply teaching techniques and procedures in a student centered fashion. Prereq: 104 or 140; declared HLED minor.

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: Admission to Prof Educ Prog and cons instr. GDR:WLNS/HE

HLED 340. Curriculum and Coordinated School Health Programs. 3 cr. Micro and macro issues, and policies and procedures surrounding coordinated school health programming in Wisconsin K-12 schools. Prereq: 250.

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. GDR: WL/HE.

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. Must file statement with HESA chair before beginning.

HLED 427. Techniques in Elementary/Middle School Health Education. 3 cr. Aims, methods, materials, strategies, techniques, organization and testing in K-9 health education. Prereq: 250, 340, admission to School of Education Professional Educ Program.

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/skills to develop effective curriculum and learning strategies for health education. Apply Wis Standards of Health Education with psychosocial skills to help students develop 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/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. See full course description in indicated (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 Teacher Preparation. 2 cr. Introduction to K-12 Physical Education teaching content leading to teacher licensure in Wisconsin. Topics include enrollment policies, teaching standards, beginning electronic portfolio, career and professional development, and best teaching practices.

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. GDR:WL/AA

P ED 199. Independent Study. 1-3 cr. Students may arrange for work not available through regular courses. Must file statement with HESA chair before beginning. Wellness substitutions may be approved. Prereq: Cons instr.

P ED 200. Skill Competence in K-12 Adventure Education. 3 cr. Participation and skill development in current K-12 Adventure Education trends. Demonstrate competency in activities that may include the awareness of principles, practices and philosophy associated with adventure programming. Lead and facilitate groups of different school-age students. Prereq: 105, 150 or cons instr.

P ED 201. Skill Competence in K-12 Physical Education Content. 3 cr. Participation and skill development in current K-12 physical education activity trends. Demonstrate competency in activities that may include but are not limited to the following: winter recreation; team, individual, and dual sports; international sports and games; elementary physical education basic motor skills; racquet and disc sports; speed power and agility and strength training. Prereq: 105, 150 or cons instr.

P ED 220. Lifespan Motor Development. 3 cr. Motor behavior changes over the lifespan including underlying processes and factors. 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 Early Childhood/Elementary Teacher. 3 cr. Acquaint early childhood/elementary teacher cert majors with organizational skills and instructional materials to integrate move-ment concepts, physical skills and brain-based activities into classroom experiences. Includes aerobic activities approp for early childhood, elementary and adult fitness. Prereq: Admission to Prof Ed Prog. 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 secondary and elementary placement/ observation; 30 hrs practicum experience. Prereq: GDR:NS complete; declared physical educ major.

P ED 271. Human Anatomy. 3 cr. Skeletal, muscular, circulatory, digestive, respiratory, and nervous systems of the human body. Prereq: Cons instr.

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. Teaching Methods in Elementary Physical Education. 3cr. Reflective approach to teaching developmental elementary physical education with an emphasis on 4K through grade six. Become more proficient in current knowledge, use of instructional strategies, and integration of state and national standards into teaching in an elementary physical education program. Prereq: Admis to Prof Educ Prog or cons instr.

P ED 332. Teaching Experience in Elementary Physical Education. 1 cr. Teach K-2 students and work with area teachers co-teaching grades 4-6 while developing lessons, assessments and parent progress reports. Practice instructional strategies and integrate state and national standards into a developmentally appropriate elementary program. Prereq: Admission in to the School of Education; con reg P ED 331.

P ED 353. Advanced First Aid Instructors. 1 cr. Preparation for teaching advanced first aid prescribed by American Red Cross; certificate granted on satisfactory course completion. 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 370. Curriculum Design in K-12 Physical Education. 3 cr. Study school physical education program content. Classification, philosophy, 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: Admis to Prof Educ Prog.

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. Physical education, intramural and interscholastic K-12 athletic programs. Philosophy, mission and objectives, purchase and care of equipment, budgeting and fund raising, legal issues, public relations, leadership/supervision, professional standards and certification for teacher/coaches. Prereq: Admis to Prof Educ Prog, sr st coaching minor, 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 physical education under 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 coord. Credit based on scope of project. Must have statement on file with HESA chair before beginning.

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 PI34 portfolio. Prereq: Con reg in student teaching.

P ED 410. Essentials for Strength and Conditioning Practicum. 3 cr. Scientific principles, theory and practical applications of strength and conditioning for athletes and sedentary populations in accordance to guidelines of the National Strength and Conditioning Association. Prereq: HP/W 226 or WLNS 183, PE 271, 310, cons instr.

P ED 428. Teaching Middle and Secondary Physical Education. 3 cr. Developmentally appropriate instructional strategies for middle/secondary student. Portfolio development of Wis Teaching Standards for teacher certification. Practicum teaching experience. Prereq: Admis to Prof Educ Prog. Take 428 one semester before student teaching.

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 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.

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. 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. See full course description in indicated (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)
790	Current Issues Seminar, 1-3 cr, (07-09)

Courses in Physical Education for the Exceptional Individual (PEX)

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.

PEX 400. Physical Education for Individuals with Disabilities. 3 cr. Physical education for individuals with disabilities emphasizing identification, assessment, program development, and learning as they apply to instruction. Prereq: Con reg in 401; and P ED 200, 201, 331; admission to School of Education.

PEX 401. Physical Education for Individuals 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 415. Assessment and Prescription in Adapted Physical Education. 2 cr. Assessment and evaluation tools and techniques used in adapted physical education. Appropriate prescription techniques, ecological inventories, and placement recommendations based on least restrictive environment. Apply evaluation within IEP process. Prereq: 400, 401 or con reg.

PEX 445. Seminar in Adapted Physical Education. 3 cr. Study problems that relate to procedures, practices, organization, and administration in adapted physical education. Correct problems through IEP maintenance, curricular planning, activity selection, instructional techniques. Prereq: 400, 401, 415.

PEX 460. Advanced Practicum in Adapted Physical Education. 1 cr. Level II practicum experience working with students with disabilities in educational/community-based setting with continued practice with evaluation, instruction, reflection. Prereq: 400, 401.

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.

PEX 715. Advanced Assessment and Prescription in Adapted Physical Education. 2 cr. Assessment and evaluation tools and techniques used in adapted physical education. Approp prescription techniques, ecological inventories, and placement recommendations based on least restrictive environment. Apply evaluation within IEP process. Prereq: Certif to teach phy ed.

PEX 740. Advanced Seminar in Adapted Physical Education. 3 cr. Study problems that relate to procedures, practices, organization, and administration in adapted physical education. Correct problems through IEP maintenance, curricular planning, activity selection, instructional techniques. Apply solutions to barriers in on-campus lab setting. Prereq: Certif to teach phy ed; 715, 760 or con reg.

PEX 760. Advanced Practicum and Community Connections in Adapted Physical Education. 1 cr. Level II practicum experience working with students with disabilities in an educational/community-based setting with continued practice with evaluation, instruction, reflection. Prereq: 400, 401 or equiv undergrad course.

108 Health, Exercise Science, & Athletics (HESA)

Physical Education for the Exceptional Individual Latent Courses:

Not offered recently. See full course description in indicated (xx-xx) catalog.

319 Exercise, Recreation, and Health Enhancement for the Elderly, 3 cr, (07-09)

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 114. Archery. 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 151. Nutrition and Exercise. HE
WLNS 153. Advanced Fitness. AA
WLNS 154. Individualized Exercise Programming. AA
WLNS 155. Jogging. AA
WLNS 161. Independent Walking/Jogging Programs. AA
WLNS 162. Cross Country Skiing. AA
WLNS 170. Beginning Swimmer. AA
WLNS 172. Water Games. AA
WLNS 173. Scuba. AA
WLNS 175. Synchronized Swimming. AA
WLNS 176. Volleyball. AA
WLNS 177. Fall Recreation. AA
WLNS 180. Softball, Volleyball. AA
WLNS 181. Soccer. AA
WLNS 183. Weight Training. AA
WLNS 184. Intro to Backpacking. AA
WLNS 185. Advanced Backpacking. AA
WLNS 187. Fall Recreation. 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 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 215. Rock Climbing. AA
WLNS 216. In-Line Skating. AA
WLNS 217. Rugby. AA
WLNS 219. Triathlon Training. AA
WLNS 221. Snowshoeing. AA
WLNS 222. Basic Pilates Mat Work. AA
WLNS 223. Fly Fishing. AA
WLNS 224. Traditional Archery. AA
WLNS 225. Winter Camping. AA
WLNS 226. Leave-No-Trace Trainer. HE
WLNS 227. Judo. 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; 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. Last listed in (03-05) catalog: 149 Stress Mgt; 157 Recreational Games; 165 Ice Skating; 208 HIV/Aids Instructor; 209 CPR for Professional. Last listed in (07-09) catalog: 113 Independent Walking Programs; 115 Bow Hunting; 148 Consumer Health; 152 Independent Jogging; 158 Instruction Racquetball; 160 Personal Defense; 166 Rollerskating; 174 Swim for Fitness; 190 Advanced Canoeing Weekend; 192 Downhill Skiing Weekend; 193 Intramurals; 207 HIV/Aids; 214 Ice Hockey; 218 Adventure Education; 220 Advanced Rock Climbing.

Health Promotion and Human Development

(College of Professional Studies)

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Abbreviations

ECEd = early childhood education

FCS = family and consumer sciences

FN = food and nutrition

HD = human development

HP = health promotion

HP/W or HPW = health promotion/wellness

SHP = safety and health protection

Child and Family Studies Minor

Consists of 22 interdisciplinary credits.

1. HD 166, 265, 367, 386.
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, 490.
 - c. Communication 280 or FCS 444.
 - d. Psychology 240, 255, 301, 315, 320, 360, 465.
 - e. Sociology 224, 225, 343, 366, 367.

Dietetics Major

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.

Accreditation: The dietetics program at UWSP is granted accreditation by the Commission on Accreditation for Dietetics Education of the **American Dietetic Association**, 120 South Riverside Plaza, 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.

Dietetics major, academic requirements:

1. **Required courses**, 49 credits: HD 265; HP/W 312; FN 101, 106, 151, 246, 248, 253, 347, 357, 373, 393, 400, 448, 454, 455, 456, 457.
2. **Required collateral courses**, 48 credits: Biology 101 or 160, 285, 387, 333; 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.

Dietetics major, academic standards:

1. You must maintain a 2.75 cumulative GPA through graduation. Transfer students must have a 2.75 cumulative GPA to enter.
2. You must earn a C- or better in Chemistry 260 to continue in the dietetics major.

Nutrition Minor

Consists of 19 credits.

1. Required: FN 106, 151, 253, 357, 373, 393 or FCS 390 or HP/W 300.
2. Electives, 3 credits from HD 261 or 265; HP/W 304; Psychology 480; Sociology 315.

Family and Consumer Sciences Major

Notes for teacher certification option:

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 sciences (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 overall GPA 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 sciences 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 sciences major. A personal interview may be conducted if necessary to make a final decision.

Teacher education option, academic requirements:

1. Required courses, 24 credits: HD 166, 265, 367, 372, 386, 466; FN 106, 151, 253.
2. Courses required for teacher certification, 52-53 credits: FCS 290, 390, 391, 392, 394, 396, 398, 400; Education 200, 205, 300, 351, 381, 386; Political Science 101; 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. Also see the **Education** section of this catalog for additional requirements.

Notes for family life education option:

1. **Academic standards:** To graduate with a major in family and consumer sciences (family life education option) you must achieve a 2.75 overall GPA.
2. **Premajor:** When you declare the family life education option, you become a premajor. The HPHD advising center will be your advisor.
3. **Major:**
 - a. Before you can be accepted into the family life education option, you must complete 6 credits of required human development courses and have a 2.50 overall GPA.
 - b. If you are a transfer student, you must have a 2.50 GPA from your prior institution and have completed 6 credits of required human development courses.

Family life education option, academic requirements:

1. Required courses, 36-38 credits: HD 166, 265, 367, 372, 386, 397(3-5 cr), 466; FCS 290, 390, 392, 400(1 cr); Comm 280 or FCS 444; HLED 140.
2. Collateral courses, 6 cr: Psych 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.

110 Health Promotion and Human Development

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 must complete the following courses during the first four semesters you are on campus:
 - a. English 101/102 or 150; Communication 101; Psychology 110.
 - b. Biology 285; Chemistry 101 or 105 and 106, or Physics 101; Physical Educ 271 or Biology 387;
 - c. FN 151; HD 265; HP/W 101, 202; SHP 330.
2. **Premajor:** When you declare the health promotion major you become a premajor. The HPHD advising center will be your advisor.
3. **Major:** Application materials, procedures, dates, etc. are available at HPHD advising center, Rm 216 CPS.
 - a. Before you can apply for acceptance into the major, you must have a 2.75 overall GPA and complete all courses in 1.a.b.c. above.
 - b. If you are a transfer student, you must have a 2.75 GPA from your prior institution and have completed all required courses.
 - c. If you are not "officially" accepted, you will not be allowed to take upper level HP/W courses.

Health promotion, academic requirements:

Consists of 68-71 credits, including prerequisites, collaterals, and one career track.

1. **Collateral requirements:** Biology 285, FN 151, 253; HD 265; Math 355; Physical Education 271 or Biology 387; HP/W 290 or Psych 385; SHP 330 or FN 357 or HD 386 or NRES 150.
2. **Required for all tracks:** Biology 160 or 101; Chemistry 101 or Physics 101; HP/W 101, 202, 300, 304, 312, 403, 410, 420, 450; Psych 385 or HP/W 290.
3. **Choose ONE career track:**
 - a. **Health and fitness leadership:** Coaching 372; FN 450; HP/W 430 Strength/Cond, Exercise/ Nutrition, Health/Fit Mgt; Physical Education 310, 410.
 - b. **Community health promotion:** FCS 390; HP/W 305, 320, 430 Health Advoc, Community; Political Science 306.
 - c. **Corporate health promotion:** Business 320 or FN 248; English 321; HP/W 305, 320, 430 Exercise/ Nutrition, Employee Wellness/Adventure Tour.
4. **Admittance appeal:** If you are not admitted into the HP program, you may reapply in subsequent semesters. You may appeal a denial. Contact the HPHD advising center for appeal procedures. The HPHD appeals committee reviews and acts on your appeal letter.
5. **Internship:** HP/W 450. Prereqs: Minimum 2.75 cumulative GPA and current certification in First Aid/CPR.
6. **NOTE:** HP/W 101, all 360s and 430s, 401, and 450 are offered as pass/fail only.

Therapeutic Lifestyle Changes (TLC)

Coaching Certificate

The Therapeutic Lifestyle Changes (TLC) Coaching Certificate is recognition of the special set of competencies needed to help clients make and maintain healthy changes. You will have acquired a body of knowledge in exercise and nutrition, and will have acquired and demonstrated specific skills in behavior change coaching. This certificate is valued by employers in the fields of Health Promotion and in medicine, in the specialty of health risk reduction. For more information on the specific requirements, make an appointment with the HPHD advising office.

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, 304, 305, 320, 399, 410, 420; FN 253; Psychology 385 or HP/W 290.

Strength and Conditioning Minor

Consists of 22 credits: Coaching 372; FN 450; HP/W 312, 430 Strength/Cond and 430 Exercise/Nutrition, or Physical Educ 362 and AT 362; Physical Educ 271 or Biology 387; Physical Educ 310, 410.

Academic Standards in HPHD

1. You may declare a major in dietetics, family and consumer sciences, or health promotion at any time.
2. You must maintain a 2.75 cumulative GPA through graduation for dietetics, family and consumer sciences-teacher education option, and health promotion majors. Transfer students must have a 2.75 cumulative GPA to enter. In the dietetics major you must have a C- or better in Chemistry 260 to continue in the major.
3. 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, 207, 208, 248, 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 & Consumer Sciences

FCS 290. Exploration of Family and Consumer Sciences. 3 cr. Designed for Family and Consumer Science majors. Explore Family and Consumer Science professions in public schools and community agencies. Complete observations with FCS professionals working in the field as well as prepare and teach a mini lesson. Also includes an introduction to professional development, research skills and ethics in FCS.

FCS 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.

FCS 382/582. Techniques for Teaching Vocational Education. 2 cr. Techniques and materials for instructional planning and teaching post-secondary vocational education courses.

FCS 383/583. Evaluation in Vocational Education. 2 cr. Techniques for analyzing post-secondary education programs; interpret evaluation data. Prereq: Cons instr.

FCS 385/585. Introduction to Vocational Guidance. 2 cr. Occupational opportunities and statutory requirements in vocational and technical education programs.

FCS 390/590. Adult Education. 2 or 3 cr. Philosophy, history, techniques, and experiences in teaching adults.

FCS 391. Curriculum and Methods for Family and Consumer Science. 3 cr. Family and consumer science K-12 curriculum development including philosophy, teaching techniques, course materials. Prereq: 290

FCS 392. Program Planning and Assessment in Family and Consumer Science. 3 cr. Administration of family and consumer science K-12, including program planning and assessment. Prereq: 290, 391

FCS 394/594. Principles of Career and Technical Education. 2 cr. Philosophy, organization, and administration of career and technical education; emphasis on Wisconsin programs. Prereq: 290

FCS 396/596. Cooperative Occupational Education Programs. 1 cr. Philosophy, organization, and teaching techniques for cooperative vocational programs. Prereq: 290; Admission to Prof Ed Prog.

FCS 398. Student Teaching in K-12 Family and Consumer Science Programs. Variable cr; pass/fail. Observation and teaching in a K-12 family and consumer science environment under the guidance of cooperating teachers and university faculty.

FCS 400. Seminar on Teaching for Student and Intern Teachers. 1-2 cr. Pass/fail. Structured group discussion on aspects of teaching that emerge during full-time field experiences. Prereq: Con reg in 398 or 498.

FCS 444/644. Helping Relationships: Skills for the Helping Professions. 3 cr. Preparation for professions in human services. Develop understanding of and ability to effectively apply interpersonal relationship skills needed by human services professionals. Prereq: 6 cr in human development, family services, psychology, or cons instr.

FCS 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.

FCS 789. Adult Learner. 3 cr. Analyze research and theory that applies to the formal and informal instruction of adults.

FCS 791. Curriculum in Family and Consumer Science. 3 cr. Trends, evaluation of programs, principles of curriculum structuring, development of teaching guides.

FCS 792. Nutrition and Food Preparation for Healthy Living. 4 cr. Fundamentals of the functions of essential nutrients and basic physical and chemical properties of foods; interaction and reaction of food in food preparation procedures and evaluation of prepared products, which will serve as a background for discussing major health and contemporary nutrition issues, such as the basis for current nutrient and dietary recommendations, the relationship between diet and health, the interaction between diet and physical activity in determining chronic disease risk, and some changes in dietary needs throughout the life cycle. **Fulfills content requirement for the graduate-level Family and Consumer Sciences Licensure Program and is offered only for those enrolled in that program.**

FCS 793. Development and Guidance of Children and Adolescents. 3 cr. Theory and current research findings applied to the study of growth, development, and guidance of normal children, from conception through adolescence within the context of the family.

Family and Consumer Sciences Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog. 790 Workshop in Family and Consumer Science, 1-4 cr, (07-09)

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. Advanced Foods. 3 cr. Investigate interplay between food composition, chemical and physical interactions in food preparation. Develop techniques for quantity food production with consideration of sustainable practices. Introduce menu planning variables and demonstrate menu planning for various populations. Prereq: 106 and Chemistry 106.

FN 248. Health Management. 2 cr. Contemporary management theories, principles, and practices as applied in various health professions (hospitals, corporate wellness, community outreach agencies, etc.). 2 hrs lec per wk.

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.

FN 347. Introduction to Food Service. 4 cr. Basic principles of food service management as applied to commercial and noncommercial food service organizations. Impact of current social, economic, technological and political factors on food service operations. Foodservice facility design. Prereq: 246 or con reg.

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, strategies for prevention, 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. Presentations on HACCP and policies and procedures. 2 hrs lec, 6 hrs lab per wk. Prereq: 347.

FN 450/650. Sports Nutrition for Fitness and Athletic Performance. 3 cr. Apply fundamental nutrition and exercise physiology concepts to understand how diet and exercise intersect with health and performance. For the athlete to maximize performance and for the general consumer interested in overall fitness, health and wellbeing. Prereq: FN 253 and HP/W 312.

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.

112 Health Promotion and Human Development

FN 454/654. Nutritional Assessment and Counseling. 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 role of nutrition in health and disease; 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 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 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 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 advisor, and culminates in a thesis.

Food and Nutrition Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

351	Elementary Nutrition, 3 cr, (07-09)
353	Nutrition: Assessment and Program Coordination, 3 cr, (07-09)
445/645	Food Preservation, 1 cr, (91-93)
748	Recent Advances in Food, 3 cr, (03-05)
753	Recent Advances in Nutrition, 3 cr, (07-09)
754	Vitamins and Minerals, 3 cr, (03-05)
755	Maternal and Child Nutrition, 3 cr, (01-03)
781	Grad Practicum, Clinical Nutrition, 4-6 cr, (03-05)
782	Grad Practicum, Community Nutrition, 4-6 cr, (03-05)
783	Grad Practicum, Food Serv Admin, 4-6 cr, (03-05)

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 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 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 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 202. Personal Wellness and Group Exercise Leadership. 3 cr. Assess and plan to improve your personal wellness in all seven dimensions of wellness. Also introduction to group exercise leadership skills and experiences. Prereq: 101.

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 208. Health Risk Reduction. 3 cr. Identify health risks; develop and implement change plans. Includes record keeping and writing. Designed for students with health risks such as elevated body mass index, sedentary behavior, excess alcohol and/or tobacco use. Prereq: Cons instr. GDR:WL/HE

HP/W 248. Creating Healthy Relationships. 3 cr. Create and maintain loving, healthy, sexual relationships. Examine current values, attitudes, and behaviors. Learn to make deliberate choices, acquire conflict resolutions skills, enhance trust and intimacy, identify and avoid abusive behaviors. GDR:WL/HE

HP/W 290. Psychological Aspects of Health. 3 cr. Role of psychology in disease, injury, premature death, and high level wellness, both to individual and society. Includes interrelatedness of wellness dimensions, healthy and destructive behaviors, managing chronic diseases, psychosocial aspects of final illness and death, and delivery of health services. Prereq: HPHD major intent.

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 Programming: Design, Techniques, and Resources. 3 cr. Develop skills to design and write complete health promotion programs including needs and assessment, goals and objectives, appropriate use of incentives, program evaluation and selection of resources. Gain discipline specific writing and presentation skills through the design and delivery of original programs to selected audience.

HP/W 304. Behavior Change Facilitation. 3 cr. Beginning skills in health counseling: interpret data, set goals; attend, encourage, challenge, and plan strategies for health promotion/protection. Prereq: Accepted HPW 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, accepted HPW major, 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: Physical Education 271 or Biology 387, 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: Accepted HPW 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 emphasis on behavior change facilitation and health promotion/protection. Topics change each semester. Prereq: Accepted HPW major, 300, 304, cons instr.

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 403. Preprofessional Transition. 3 cr. Wellness retreat emphasizing emotional, social and career dimensions of wellness. Includes facilitation group skills, and self assessments to look at personal wellness progress since joining the major. Preparation for internship and entering the job market. Prereq: Must enroll semester before internship.

HP/W 406/606. Co-active Coaching for Therapeutic Lifestyle Change. 3 cr. Develop theory, skills, and techniques related to guiding groups and individuals through meaningful lifestyle changes by emphasizing motivational strategies and behavioral and holistic practices. Motivational interviewing techniques and diverse coaching methodologies will be taught, practiced, and compared and contrasted. Prereq: 304 or 640 or cons instr.

HP/W 410/610. 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: Accepted HPW major, 300, 304, 305, 312, 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: Accepted HPW major, 300, 304, 305, 312, 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. Trans-theoretical model of behavior change and associated research.

HP/W 441/641. Practicum in Health and Wellness Coaching. 3 cr. Prepare professionally to assist individuals with health behavior change. Build upon the knowledge and skills gained in previous courses. Provide a faculty recommendation and participate in a pre-acceptance interview with the instructor. Intensive preparation will be provided at the beginning of the course in professional standards, ethics, assessment of clinical issues, interviewing skills, and referral strategies. Receive both on-site supervision with a field supervisor and instructor supervisor during weekly class meetings in a practicum site with a range of venues. Prereq: HPW 304 & 406 or HPW 640 & 606, FN 151, HPW 312 or test out.

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: 403, completion of ALL coursework; 2.75 cum GPA; certification in First Aid and CPR.

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.

HP/W 770. Grants and Funding for Organizations and Small Projects. 3 cr. Basic grant writing, understanding of agency and foundation granting, use of campus, agency and foundation grant funding sources and resources.

Health Promotion/Wellness Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

106	High Level Wellness, 2 cr, (07-09)
142	Mindful Meditation, 2 cr, (07-09)
143	Focusing Your Mind, 3 cr, (07-09)
149	Personal Wellness for Nontraditional Students, 2 cr, (07-09)
226	Group Leadership/Teaching in Wellness, 3 cr, (07-09)
460	People and Ecosystems, 4 cr, (07-09)

Courses In Human and Community Resources

HCR 700. Collaborative Leadership in Community Development. 3 cr. Examine the meaning of community, importance of community organizations in making positive changes and explore collaborative leadership competencies.

HCR 710. Organization and Program Management. 3 cr. Examine theoretical and practical aspects of leading and managing organizations and programs. Theories of leadership and organizational behavior, and organizational change on macro (organizational) and micro (program) levels will also be covered. Management topics include communication, marketing, supervision, accounting and finance, strategic planning and ethics. Prereq: HCR 700 or Concurrent Enrollment.

HCR 720. Outcome Based Program Evaluation. 3 cr. Designed to enhance the community health practitioners awareness of the importance of using outcome measures to guide the development and assess the effectiveness of interventions and programs. Prereq: HCR 700.

HCR 730. Best Practices in Program Development. 3 cr. Overview of research and issues concerning the application and use of research-based information in the development of programming for children, youth, individuals, and families.

HCR 740. Grants and Funding for Small Projects. 3 cr. Basic grant writing, understanding of agency and foundation granting, use of campus, agency and foundation grant funding sources and resources. Prereq: HCR 700.

HCR 750. Field Work. 1-8 cr. Professional experience in an organization, agency, and/or institution related to your career goals.

HCR 751. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization.

HCR 752. Readings. 1-3 cr. Independent reading and review of current literature; written reports. Prereq: Cons instr.

HCR 755. Special Topics. 1-3 cr. Subtitle will designate human development topic. May repeat for credit with different subtitles. Prereq: Cons instr.

HCR 798. Graduate Project. 6 cr. Practical project dealing with a specific problem in an academic area, employment or community setting, culminating in a defense and paper.

114 Health Sciences

HCR 799. Thesis. 6 cr. Research project dealing with a specific problem in an academic area and culminating in a thesis.

Courses In Human Development

HD 166. The Family: Continuing Concerns. 3 cr. Examine research and theory that relate 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 330/530. Human Sexuality 3 cr. Sexual development across the lifespan; an in-depth look at the diversity of human sexuality in contemporary America.

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 363/563. Development of the Preschool Child. 1-3 cr. Overview of current research and theory relating to development of children ages 3 to 6, and programming implications.

HD 364/564. Infant Development and Programming. 1-3 cr. Human development, birth to three years. Implications for parents, caregivers, and early childhood education programs.

HD 365/565. Guidance of Young Children. 1-3 cr. Current research and theory related to guidance of children, preschool through adolescence. Application to home and school environments.

HD 366/566. Families in Cross Cultural Contexts. 3 cr. Survey of family life across a variety of cultural contexts. In depth application to programming and outreach with families from unique populations.

HD 367/567. 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 considering the reciprocal relationships between the two systems. GDR:EL

HD 386. Family Resource Management and the Environment. 3 cr. Examine various perspectives on how individuals and families manage human and nonhuman resources. Study family and environment and reciprocal relationships between the two systems. GDR:EL

HD 397. Field Work. 1-12 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 490/690. Workshop. 1-4 cr. Subtitle will designate area.

HD 760. Family and Community Wellness. 1-3 cr. Study factors that affect the well-being of individuals within the context of family and community. May be offered in 1 cr modules with subtitles.

HD 762. Family Issues in Society. 3 cr. Research and theory relating to complex concerns families face over time. Focus on family functions, variations in family organization and relationships; application of principles to family dynamics during different stages of the life span. **This course fulfills content requirement for the graduate level Family and Consumer Sciences Licensure Program and is offered only for those enrolled in that program.**

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 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 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 798. Research Methods. 3 cr. General understanding of peer reviewed research including research design and data analysis with attention to understanding, evaluating and interpreting discipline specific research. Prereq: 3 cr undergrad statistics, or cons instr.

Human Development Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

362/562 Adulthood: Developmental Approach, 3 cr, (99-01)

468 Issues in Human Development, 1-2 cr, (99-01)

700 Trends, 3 cr, (99-01)

701 Workshop, 3 cr, (99-01)

761 Contemporary Problems in Human Development, 1-3 cr, (07-09)

763 Theory to Practice in Human Development, 3 cr, (99-01)

764 Family and Parent Education, 3 cr, (07-09)

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 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

Safety and Health Protection Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

Safety and Health Protection minor (07-09)

210 Intro to Health Protection, 3 cr, (07-09)

310 Industrial Hygiene/Health Protection, 3 cr, (07-09)

311 Safety and Health Hazard Control, 3 cr, (07-09)

360 Practicum in Health Protection, 1-3 cr, (07-09)

397/597 Workshop in Safety Education, variable cr, (07-09)

399 Special Work, variable cr, (07-09)

725 Advanced Health Protection, 3 cr, (07-09)

From 89-01 catalog: 278 Safety Instr Certif, 306 Industrial/Inst Safety,

796 Independent Study.

Health Sciences

(College of Professional Studies)

Susan Raab, Chair

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Faculty: J Bulgrin, C Hebert, C Paulson, S Raab, M Shulfer.

Medical Director: Lloyd Arnold, MD

Definitions:

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.

The health science major will prepare you with an interdisciplinary and liberal arts foundation for a variety of professional careers within the health care system. Core courses emphasize the human, behavioral, and physical sciences, and foster an appreciation of the complexities of the health care system. You select one of four specific options of

study: prephysical therapy, preoccupational therapy, health care administration, or health care informatics.

Clinical Laboratory Science Major

1. **Academic core requirements:**
 - a. The bachelor of science general degree requirements.
 - b. Clinical Laboratory Science, 28 credits: CLS 105, 125, 205, 225, 295, 365, 375, 385, 415, 425, 427, 428, 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 (98-103 on-campus credits) and the clinical practicum (26 off-campus credits).

1. Complete the CLS academic core requirements above.
2. CLS 375.
3. Biology, 10-15 credits: Biology 314, 326, 387. We recommend Biology 130 to complete a biology minor.
4. Chemistry:
 - a. You may take Chemistry 105 and 106 in lieu of 115 and 116 with consent of chemistry and health science chairs.
 - b. Chemistry 220 and 260 (recommended).
 - c. Take Chemistry 115, 116, 248, 325, 326, and 365 if you are planning graduate work or other professional programs.

Histotechnology Option

Includes the academic program (98-103 on-campus credits) and the clinical practicum (24 off-campus credits).

1. Complete the CLS academic core requirements above.
2. Biology, 10-15 credits: Biology 314, 326, 387. We recommend Biology 130 to complete a biology minor.
3. Chemistry:
 - a. You may take Chemistry 105 and 106 in lieu of 115 and 116 with consent of chemistry and health science chairs.
 - b. Chemistry 220 and 260 (recommended).
 - c. Take Chemistry 115, 116, 248, 325, 326, 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, 16 credits: Chemistry 248, 325, 326, 365. You may take Chemistry 105 and 106 in lieu of 115 and 116 with consent of chemistry and health science chairs.

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 gjo@naaccls.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

- Affinity Health System*, Appleton: Peter Podluszky, MD; Cecelia W. Landin, MS, MT(ASCP);
Aspirus Wausau Hospital, Wausau: Steven Bodemer, MD; Susan Flaker Johnson, MEPD, MT(ASCP);
Berkshire Medical Center, Pittsfield, Massachusetts: Rebecca Johnson, MD; Lori Moore, MEd, MT(ASCP);
Langlade Memorial Hospital, Antigo: Michael Lawton MT(ASCP);
 Mayo Clinic, Rochester, Minnesota: Susan Lehman, Prog. Dir., DLMP/MSHS Allied Health Education;
Riverview Hospital, Wisconsin Rapids: Michael Lange, MT(ASCP);
Sacred Heart Hospital, Eau Claire: Thomas W. Hadley, MD; Richard Miley, 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: Frank Lawrence, MBA, MT(ASCP);
TheDaCare Laboratories, Neenah: Kathy Procknow, MT(ASCP) SBB;
V.A. Hines Hospital: M. E. Rubnitz, MD; Donna Wray, BS, MT(ASCP).

Cytotechnology

- Wisconsin State Laboratory of Hygiene*, Madison: Lynn Sterud, CT(ASCP);
Marshfield Laboratories, 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 Laboratories*, Marshfield: Kathryn Kolquist, MD; Katherine Gorman, BS, HTL(ASCP).

Health Science Major (HS)

1. Academic core requirements:
 - a. Bachelor of science general degree requirements.
 - b. Health Science, 15 crs: 105, 350, 390, 490, 499.
 - c. Clinical Laboratory Science, 6 crs: 105, 295, 495.
 - d. Collateral courses: Anthropology 380; Biology 160, 285, 387; Chemistry 105; Math 355; Philosophy 121, 302; Political Science 306; Psychology 110, Sociology 101.
2. Select one option from health care administration, health care informatics, preoccupational therapy, or prephysical therapy (below).

Health Care Administration Option

1. Complete the HS core requirements above.
2. Accounting 210; Business 320, 324, 330; Computer Info Systems 115, 116; Economics 210, 211.

116 Health Sciences

- Electives: At least 6 credits from Accounting 211; Business 331, 338, 340, 350; Communication 240, 383, 387; Health Science 395, 410.

Health Care Informatics Option

- Complete the HS core requirements above.
- Accounting 210, 211.
- Computer Info Systems 115, 116, 210, 211, 219.
- Electives: At least 6 credits from Computer Info Systems 313, 330, 336, 346, 364; Health Science 395; Web and Digital Media Development 345.

Pre-Occupational Therapy Option

- Complete the HS core requirements above.
- Food and Nutrition 253, Health Promotion/Wellness 312; Physical Education 310; Physics 101; Psychology 260, 351.
- Electives: At least 6 credits from Biology 210; Health Science 310, 395, 410; Psychology 301, 325.

Pre-Physical Therapy Option

- Complete the HS core requirements above.
- Chemistry 106; Food and Nutrition 253; Health Promotion/Wellness 312; Physical Education 310; Physics 203, 204; Psychology 260, 351.

Academic Standards

For acceptance and continued registration as a candidate for the clinical lab science or health 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 Health Sciences. 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 100. Overview of Health Occupations. 2 cr. Investigate 200-plus careers in the health industry with job shadowing experiences in community health care facilities. Includes medical terminology, physiology and anatomy, disease processes, interpersonal skills, current health issues/concerns.

CLS 101. Evolution of Health Care. 1 cr. History of medicine and evolution of health care professionals in context of philosophical and cultural influences. CLS 100 in addition to 101 will be accepted as an equivalent to CLS 105. Prereq: 100.

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 2 cr. Overview of laboratory safety, phlebotomy, immunology, immunohematology, hematology, coagulation, clinical chemistry, body fluid analysis, diagnostic microbiology, and molecular pathology. Major topics are accompanied 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 CLS major.

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. 1 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. 1 hr lec per wk. Prereq: Admission to 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: health effects of radiation, water and air pollutants, antibiotics, emerging infectious diseases and overpopulation. 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. 1 cr. Study mechanisms and disorders of hemostasis and fibrinolysis; diagnostic techniques and instrumentation used in patient diagnosis. 1 hr lec, 1 hr 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, and chlamydial 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 427. Diagnostic Medical Parasitology. 1 cr. Study life cycles of human parasites of medical significance. Identify clinical signs, symptoms, treatment, and epidemiology associated with human parasitic disease. Examine specimen collection, transportation and laboratory methods used to detect and identify the parasites. 1 hr lec, 2 hrs lab per wk for 8 wks. Prereq: Biology 333.

CLS 428. Medical Mycology. 1 cr. Study medically significant fungi. Identify clinical signs, symptoms, treatment, and epidemiology associated with human mycotic diseases. Explore laboratory methods used to detect and identify organisms. 1 hr lec, 2 hrs lab per wk for 8 wks. Prereq: Biology 333.

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 451. Advanced Clinical Studies in Immunology and Immunoematology. 2 cr. Advanced study of immunological principles in diagnostic testing; problems and solutions to compatibility testing for blood components and tissue and organ transplants. Prereq: CLT(NCA) or MLT(ASCP) certification; admis to professional program.

CLS 452. Advanced Clinical Studies in Hematology and Hemostasis. 2 cr. Principles and procedures of complex clinical tests used to diagnose, treat and monitor patients with leukemias, anemias, and other hematologic disorders. Examine factors involved in complicated hemostasis situations. Prereq: CLT(NCA) or MLT(ASCP) certification; admis to professional program.

CLS 453. Advanced Studies in Clinical Chemistry. 2 cr. Advanced automated and manual techniques in chemical analysis of blood, urine, cerebrospinal fluid, synovial fluid, and other fluids and tissues. Focus on problem solving in clinical chemistry lab. Prereq: CLT(NCA) or MLT(ASCP) certification; admis to professional program.

CLS 454. Advanced Diagnostic Microbiology. 2 cr. Advanced techniques used to handle and identify fastidious and highly infectious microbes, especially antibiotic-resistant organisms. Appropriate responses to biohazardous spills, potential contamination of food and water, and bioterrorism. Prereq: CLT(NCA) or MLT(ASCP) certification; admis to professional program.

***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 461. Advanced Clinical Practicum in Immunology and Immunoematology.** 3 cr. Perform advanced diagnostic tests in immunology and correlate results to disease states of patients. Prepare blood products for patient infusion. Perform compatibility tests and resolve issues with incompatible situations. Apply principles of quality assurance. Prereq: 451.

***CLS 462. Advanced Clinical Practicum in Hematology and Hemostasis.** 3 cr. Perform complex clinical tests to diagnose, treat, and monitor patients with leukemias, anemias, and other hematological disorders. Determine factor deficiencies in problem situations encountered in hemostasis. Apply principles of quality assurance. Prereq: 452.

***CLS 463. Advanced Clinical Practicum in Clinical Chemistry and Body Fluids.** 3 cr. Perform complex chemical analysis of blood, urine, cerebrospinal fluid, synovial fluid, and other fluids and tissues. Interpret and correlate test results with disease processes. Apply principles of quality assurance. Prereq: 453.

***CLS 464. Advanced Clinical Practicum in Diagnostic Microbiology.** 3 cr. Process, isolate, and identify fastidious and highly infectious microbes. Perform and interpret antibiotic sensitivity tests. Perform

quantitative drug testing and determine therapeutic range. Respond to emergency enactment situations. Apply principles of quality assurance. Prereq: 454.

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/abnormalities in cells found in 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 Health Sciences. 1 cr. Apply scientific method to health care research problems; explore research design principles; write research proposals; design research project. 1 hr lec per wk. Prereq: Jr st.

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 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.

Courses in Health Science

HS. 105. Survey of Common Diseases. 3 cr. Examine major disease categories such as infectious disease, cancer, diabetes, stroke, heart disease. Explore basic physiology, causes, risk factors, and prevention within context of public health.

HS 310. Communication in Health Care. 3 cr. Fundamentals of teaching and learning in health care. Explore techniques of therapeutic communication and common barriers to patient learning and achievement of health and disease management goals. Prereq: HS 105, Biology 285.

118 History

HS 350. Leadership and Management in Health Care. 3 cr. Interdisciplinary analysis of leadership theory, including concepts of working cooperatively, effective communication, conflict resolution, fiscal responsibility, human resource development, time management, building strategic alliances, and outcomes assessment. Prereq: CLS 105, HS 105.

HS 390. Human Pathophysiology. 4 cr. Examine fundamental concepts of diseases such as cellular adaptation and injury, inflammation, immunity, edema, and neoplasia and apply them to common diseases of select organ systems. Prereq: Biology 285 and 387.

HS 395. Fundamentals of Epidemiology. 3 cr. Introduction to basic principles and methods of epidemiology and application to health care delivery. Includes historical perspective of epidemiology, measures of disease occurrence and association, clinical epidemiology, disease screening, causal inference, study design. Prereq: HS 105 and Math 305 or cons. instr.

HS 410. Issues in Aging. 3 cr. Interdisciplinary focus on gerontology, outlining associated health issues with impacts on families and caregivers. Includes demographics, roles and responsibilities, relationships within families, socioeconomic concerns, and barriers to health care. Prereq: HS 390, Political Science 306.

HS 490. Interdisciplinary Perspectives in Health Care. 3 cr. Explore the theory and dynamics of interprofessional and team practice in health professions within the context of service learning projects undertaken in community settings involved in population health issues. Work may involve all phases of project development. Prereq: CLS 350, sr st, or cons. instr.

HS 498. Experiential Learning. 1-3 cr. Field learning experiences designed for student's area of emphasis within the Health Science major. Prereq: Minimum so st.

HS 499. Selected Topics in Health Sciences. 1 cr. Choose topic within your health care option and work on independent project under supervision of HS faculty. Prereq: Jr st.

History

(College of Letters and Science)

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T Kaminski, S Kent, A Lelis, N LoPatin-Lummis, V Peguero-
Lawlor, G Summers, L Willis, E Yonke.

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:

1. Six credits from 100-level history courses (101, 102, 176, 177).
2. Nine credits from 200-level history courses distributed according to the following guidelines:
 - a. At least 3 credits from 200-level **Global or Comparative** history courses (201-215).
 - b. At least 3 credits from 200-level **Regional** history courses (216-275).
3. History 300.
4. Fifteen credits from 300-level history courses distributed according to the following guidelines:
 - a. At least 3 credits from 300-level **Global or Comparative** history courses (301-315).
 - b. At least 3 credits from 300-level **Regional** history courses (316-375).
 - c. At least 3 credits from 300-level **U.S.** history courses (376-395).
5. History 489 or 490.

History Major with Concentration in Race and Ethnicity

This concentration allows students to focus on the historical influence of socially and ideologically constructed racial and ethnic groups through interdisciplinary study. Requirements follow the same general pattern as the regular history major, but students are permitted to apply 300-level courses outside of history towards the major. **NOTE for teacher certification:** Enrollment caps are in effect for those seeking teacher certification in history. For certification in this concentration you must take History 177.

Consists of a minimum of 36 credits:

1. Six credits from 100-level history courses (101, 102, 176 or 177).
2. Nine credits from 200-level history courses according to the following guidelines:
 - a. At least 3 credits from appropriate **U.S.** history courses (284, 285, 288, 289, 290, 291, 292).
 - b. At least 3 credits from appropriate **Regional** history (216, 217, 223, 224, 225, 231, 232, 233, 239, 240, 241, 247, 248, 249, 255, 275).
3. History 300.
4. Fifteen credits from 300- and 400-level courses (at least 3 credits must be from 300-level history courses listed below) distributed according to the following guidelines (* after a course number indicates that it may be applied to the major when taught with an appropriate subtitle):
 - a. At least 3 credits from **Global or Comparative** courses (302, 310, 313, 315*; Anthropology 320, 325; English 361, 362, 374; French 481*; German 481*; Geography 373; Political Science 386; Religious Studies 302, 240, 342; Sociology 343; Spanish 483*).
 - b. At least 3 credits from **Regional** courses (316, 317, 318, 322, 323, 332, 338, 339, 347, 348, 355, 364, 367, 369*, 371, 373, 375; Anthropology 335, 338, 345; French 481*; Geography 300, 301, 302, 325, 327, 328; German 481*; Political Science 361, 362, 371, 372; Religious Studies 333, 341).
 - c. At least 3 credits from **U.S.** courses (History 393; Anthropology 339, 371; English 382, 386; Music 305; Political Science 315, 408, 414; Religious Studies 311, 316; Sociology 316; Spanish 382; Women's Studies 320).
5. History 489 or 490.

History Minor

Consists of a minimum of 21 credits:

1. Twelve credits from 100- and 200-level history courses distributed according to the following guidelines:
 - a. At least 3 credits from **Global or Comparative** history courses (101, 102, 201-215).
 - b. At least 3 credits from **Regional** history courses (216-275).
2. Nine credits from 300-level history courses.

History Minor for Teacher Certification

Consists of a minimum of 24 credits:

1. Twelve credits from 100- and 200-level history courses distributed according to the following guidelines:
 - a. At least 3 credits from **Global or Comparative** history courses (101, 102, 201-215).
 - b. At least 3 credits from **Regional** history courses (216-275).
2. History 300.
3. Nine credits of 300-level history courses distributed according to the following guidelines:
 - a. At least 3 credits from 300-level **Global or Comparative** history courses (301-315).
 - b. At least 3 credits from 300-level **Regional** history courses (316-375).
 - c. At least 3 credits from 300-level **U.S.** history courses (376-395).

History Honors Program

The History Honors Program provides history majors with the opportunity to undertake a significant research project as a capstone experience. To graduate in the History Honors Program:

1. Have a 3.5 GPA.
2. Complete the requirements for history major including 6 credits of History 495 normally taken in two consecutive semesters. History minors may complete the honors program with permission of department chair.
3. In consultation with your thesis advisor and the department chair, select at least one other reader from the History Department faculty.
4. Defend a prospectus of your thesis topic before your advisor and reader(s) during the first 3 credits of History 495.
5. Defend a 40-60 page thesis before your advisor and reader(s) in the second 3 credits of History 495.

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 176, 177, 256 and 257 by passing the appropriate Advanced Placement Program Examination (AP) or College Level Examination Program (CLEP) 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 topical courses that 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 176. United States to 1877. 3 cr. Prereq: So st. GDR:HI

HIST 177. United States Since 1877. 3 cr. Prereq: So st. GDR:HI

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 201(NW). World Military History to 1850. 3 cr. Survey of world military history from ancient times to 1850. GDR: HI

HIST 203. Peace and Nonviolence in the Twentieth Century. 3 cr. Survey of key individuals, ideas, and events in world history that have shaped our understanding and debates about the nature of-and prospects for-peace in the global community.

HIST 204(NW). Modern Global Environmental History. 3 cr. Cultural, social, economic and political influences on the environment worldwide. Includes imperialism, industrialism and modern environmentalism. GDR: HI, EL

HIST 205(NW). Science and Technology in World History. 3 cr. From ancient times to present. GDR: HI

HIST 206(NW). Medicine in World History. 3 cr. Ancient times to present. GDR: HI

HIST 214. United States and the World. 3 cr. Subtitle will designate topic. GDR: HI

HIST *215. Topics in Global and Comparative History. 3 cr. Subtitle will designate topic.

HIST 216(NW). East Asia to 1600. 3 cr. Traditional cultures, religions, thought, and institutions of China, Korea, Japan, and Vietnam. GDR:HI

HIST 217(NW). East Asia Since 1600. 3 cr. China, Korea, Japan, and Vietnam; imperialism, modernization, nationalism, revolutions, and independence struggles. GDR:HI

HIST *223. Topics in East Asian History. 3 cr. Subtitle will designate topic.

HIST 232(NW). Middle East to 1798. 3 cr. From the emergence of Islam to 1798. GDR:HI

HIST *233(NW). Middle East Since 1798. 3 cr. From Napoleon's conquest of Egypt to the resurgence of Islam. GDR:HI

HIST *239. Topics in Middle Eastern History. 3 cr. Subtitle will designate topic.

HIST 240(NW). Africa to 1800. 3 cr. GDR:HI

HIST 241(NW). Africa since 1800. 3 cr. GDR:HI

HIST 247. Topics in African History. 3 cr. Subtitle will designate topic.

HIST 248(NW). Colonial Latin America. 2 or 3 cr. European discoveries to independence. Prereq: So st. GDR:HI

HIST *249(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 *255. Topics in Latin American History. 3 cr. Subtitle will designate topic.

HIST 256. Europe to 1500. 3 cr. Ancient and medieval European history. GDR:HI

HIST 257. Europe since 1500. 3 cr. Early modern and modern European history. GDR:HI

HIST *274. Topics in European History. 3 cr. Subtitle will designate topic.

HIST *275. Topics in Russian and Balkan History. 3 cr. Subtitle will designate topic.

HIST 280. American Environmental History. 3 cr. The changing role of nature in American life. GDR:HI, EL

HIST 284(MNS). Women in American History I: Colonial to Antebellum. 3 cr. GDR: HI

HIST 285 (MNS). Women in American History II: 19th and 20th Centuries. 3 cr. GDR: HI

HIST 288(MNS). Racial and Ethnic Groups in the United States. 3 cr. GDR: HI

HIST 289(MNS). African American History to 1877. 3 cr. The African American experience from the origins of African slavery in North America to the end of Reconstruction. GDR: HI

HIST 290(MNS). African American History since 1877. 3 cr. The African American experience since Reconstruction with a special emphasis on the evolution of the Civil Rights Movement. GDR: HI

HIST 291(MNS). Latin Americans in U.S. History. 3 cr. The Latin American experience from Spanish exploration to the present. GDR: HI

HIST 292(MNS). Native American History. 3 cr. Earliest times to the present. GDR: HI

HIST *295. Topics in United States History. 3 cr. Subtitle will designate topic.

HIST 300. Methods and Skills of History. 3 cr. Prereq: So st and history major/minor or broad-field social science; or so st and cons instr.

HIST 301/501. Human Rights. 3 cr. Development of Human Rights since the 18th century examining problems of definition, implementation and international justice.

HIST 302/502. War and Propaganda in the 20th Century. 3 cr. How the United States and other countries at war use propaganda to explain war aims, instruct citizens, and rally support.

120 History

HIST 303/503. United States and the World. 3 cr. Subtitle will designate topic.

HIST 304/504. History of Climate Change. 3 cr. The changing role of weather in human society. GDR: EL

HIST 310/510(MNS or NW). Slavery in the Americas. 3 cr. Slavery and slaveholding societies in British North America, United States, the Caribbean, and Latin America (including Brazil) from 16th through 19th centuries.

HIST 313/513(NW). East-West Encounters. 3 cr. Diplomatic, economic, and cultural contacts between Europe and Asia from 1500 to present.

HIST *315/515. Topics in Global and Comparative History. 3 cr. Subtitle will designate topic.

HIST 316/516(NW). History of China. 3 cr. From earliest times to present.

HIST 317/517(NW). History of Japan. 3 cr. From earliest times to present.

HIST 318/518(NW). Images of the Samurai. 3 cr. The role of Samurai in Japanese history as portrayed in writing and images.

HIST 322/522(NW). The Mongols. 3 cr. The Mongol Empire from the 12th to 16th centuries. GDR: HU4

HIST *323/523. Topics in East Asian History. 3 cr. Subtitle will designate topic.

HIST 332/532. Women's Issues in the Muslim World. 3 cr. The impact of Islam on women's issues in Muslim societies from the 7th century to present.

HIST 338/538(NW). The Arab-Israeli Conflict. 3 cr. Origins, development, and consequences.

HIST *339/539. Topics in Middle Eastern History. 3 cr. Subtitle will designate topic.

HIST *347/547. Topics in African History. 3 cr. Subtitle will designate topic.

HIST 348/548(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 *355/555. Topics in Latin American History. 3 cr. Subtitle will designate topic.

HIST 356/556. The Renaissance. 3 cr. 14th and 15th century Europe.

HIST *357/557. The Reformation. 3 cr. Subtitle will designate topic(s) in 16th and 17th century European history.

HIST 358/558. England to the 18th Century. 3 cr. Medieval and early modern eras.

HIST 359/559. Modern Britain. 3 cr. 18th century to the present.

HIST 360/560. Modern Ireland. 18th century to the present.

HIST 361/561. France: Enlightenment, Revolution, and Napoleon. 3 cr.

HIST 363/563. Modern Germany. 3 cr. 18th century to the present.

HIST 364/564. The Holocaust. 3 cr. Causes and consequences.

HIST 367/567. Habsburg History, 1526-1918. 3 cr. From creation of the imperial idea to the collapse of empire. GDR:HU4

HIST *369/569. Topics in European History. 3 cr. Subtitle will designate topic.

HIST 370/570(NW). Eastern Europe in the 20th Century. 3 cr. Democracy, nationalism, fascism, and communism in Eastern Europe after 1918. GDR:HU4

HIST 371/571(NW). History of Yugoslavia. 3 cr. 1918 to the present.

HIST 372/572(NW). Russian History and Civilization. 3 cr. 10th century to 1917. GDR: HI

HIST 373/573(NW). Soviet Union. 3 cr. 1917 to the present. GDR:HI

HIST 374/574(NW). Stalinism. 3 cr.

HIST *375/575. Topics in Russian and Balkan History. 3 cr. Subtitle will designate topic.

HIST 377/577. U.S. Foreign Relations 1750-1914. 3 cr.

HIST 378/578. U.S. Foreign Relations 1914 to Present. 3 cr.

HIST 380/580. U.S. Environmental Politics, 1900 to Present. 3 cr. The politics of natural resource management, from the conservation movement through environmentalism to the present day.

HIST 381/581. Technology in U.S. History. 3 cr. Cultural, political, economic, and environmental influence of technology in United States history from colonial times to the present.

HIST 384/584. Women's Rights and Feminism in the United States. 3 cr. From the American Revolution through contemporary feminist issues.

HIST 385/585. Women, War, and Peace. 3 cr. From colonial times through the Gulf War.

HIST 386/586. Colonial America. 3 cr.

HIST 387/587. Revolutionary America. 3 cr.

HIST 388/588. The Civil War Era. 3 cr.

HIST 392/592 (NW). Native American Forestry. 3 cr. Introduction to Native American forest management from cultural, ecological, historic and socioeconomic perspectives. May not earn credit in both Forestry 392 and History 392. GDR: EL

HIST *393/593. Wisconsin Indians. 3 cr. Subtitle will designate topic in history and culture of Indians of Wisconsin and neighboring areas.

HIST *395/595. Topics in United States History. 3 cr. Subtitle will designate topic.

HIST *396/596. Regional History through Study Abroad. 3 cr. History informed by visits to historic locations and cultural centers with approp. study and writing. Subtitle will designate topic. Offered only in UWSP overseas programs. GDR: HU4

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.

HIST 398/598. Topics in History. 1-3 crs. Subtitle will designate topic.

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 480. Museum Internship. 1-12 cr. Supervised work at a regional, national, or international historical museum. One credit for 60 hrs work. Credits and/or additional requirements set by instructor before registration. May apply 3 cr max to history major/minor. Prereq: Jr or sr st and 2.75 GPA in major/minor and cons chair.

HIST 489. Selected Historical Problems: Colloquium. 3 cr. Subtitle will designate topic(s) for a reading-intensive, discussion-based class on historiography and methodology. Prereq: 290, sr st and history maj/min, 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 700. Historical Method. 3 cr. Securing and evaluating historical evidence; construction of historical papers based upon various kinds of source materials.

HIST *701. Seminar in Global and Comparative History. 3 cr. Subtitle will designate topic.

HIST *716. Seminar in Non-Western Regional History. 3 cr. Subtitle will designate topic(s).

HIST *756. Seminar in European History. 3 cr. Subtitle will designate topic(s).

HIST *776. Seminar in United States 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 *791. Readings and Problems in History. 3 cr. Reading seminar focused on a specific historical period and/or topic. Subtitle will designate focus.

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. See full course description in indicated (xx-xx) catalog.
397 Reading Adjunct Practicum, 1 cr, (07-09)

HISTOTECHNOLOGY

See *Health Sciences, Clinical Laboratory Science.*

HMONG

See *Foreign Languages*.

HOME ECONOMICS

See *Health Promotion and Human Development*, and *Interior Architecture*.

Honors Intern Program

Career Services Office
Room 134, Main Building
Phone: 715-346-3226
E-mail: career@uwsp.edu

In the Honors Intern Program you can gain one to five years experience in work related to your academic major or career goals. All full-time UWSP students are eligible for consideration. As an honors intern 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.

Honors Intern Courses

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.

HUMAN DEVELOPMENT

See *Health Promotion and Human Development*.

HUMAN DIMENSIONS OF NATURAL RESOURCE MANAGEMENT

See *Natural Resources*.

HUMAN SERVICES

See *Psychology*.

Individually Planned Major (IPM)

Thomas Rowe, Coordinator
Room B337, Science Building
Phone: 715-346-3959
E-mail: trowe@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 propose your program prior to completing 75 credits including all transfer credits 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. Have a minimum grade point average of 3.00 to graduate, 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 completion of 75 credits. This requirement can be waived in some cases.

You will have to develop a proposal for your major by consulting with advisors 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 advisors, the IPM coordinator, and the IPM committee.

Individually Planned Major

Consists of:

1. At least 36 approved credits taken from no fewer than two curricular areas, with a minimum of 9 credits in each area.
2. At least 20 credits must be in courses numbered 300 or above.
3. Although UWSP does have a policy of permitting the repeat of a course in which you received a D+, D, or F (see the section entitled *More Academic Information* in the catalog), the IPM will not accept repeats of courses in which you originally earned a D for the IPM major.

Contact the IPM coordinator for full details.

Instructional Resources

(College of Professional Studies)

Room 339, College of Professional Studies Building
Phone: 715-346-4436
E-mail: pshaw@uwsp.edu

Faculty: TBA

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.

Interior Architecture

(College of Professional Studies)

Nisha Fernando, Head of the Division of Interior Architecture
Room 330, College of Professional Studies Building
Phone: 715-346-4600
E-mail: design@uwsp.edu
Web: www.uwsp.edu/ia

122 Interior Architecture

Faculty: T Brown, K Brunett, N Fernando, K Julin, J Kangas, P Kluetz, K Marquart, P Williams, D Zimmerman.

Definition: The Interior Architecture program provides a learning environment that prepares you for professional careers in design; it equips you with the ability to design quality interior environments that contribute to the well-being of individuals and groups. Program excellence is maintained through two required portfolio reviews of your work.

While in the program, you'll interact with design professionals through regional, national, and international field trips and through design critiques. You are given challenges representative of those encountered in the field and are expected to 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.

Upon graduation, you'll find a variety of professional opportunities such as office, residential, retail, and hospitality design and facility management. Other possibilities include product development, design consultations, and sales representation of manufacturers.

Accreditation: The UW-Stevens Point Interior Architecture program is accredited by the Council for Interior Design Accreditation (CIDA) and is an accredited institutional member of the National Association of Schools of Art and Design (NASAD).

Interior Architecture Major (IA)

- Sixty-nine credits:
 - Fifty-seven credits: IA 100, 101, 140, 160, 200, 204, 211, 212, 216, 301, 309, 311, 314, 315, 318, 370, 393, 394 (1 cr), 395 (3 cr), 400, 411.
 - Six credits: Art 102, 103
 - Six credits: Psychology 110 and 3 credits of Sociology or Anthropology.
- Eleven elective credits from Interior Architecture and/or from select courses in Art, Forestry, and Business.
- Admission to IA professional sequence:**
 - Is determined by your GPA in Art 102 and/or 103, IA 101, 204, 211.
 - Is determined by successful completion of IA 200.
 - Is determined by the successful completion of the sophomore portfolio review, which is valid only for the subsequent semester of that academic year. To qualify for the review, you must have a minimum of 2.5 GPA in Art 102 and/or 103, IA 101, 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.
 - 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 by the end of the semester will be admitted.
- You must have a laptop computer and approved computer-aided design (CAD) software before you enroll in IA 212 and IA 370.

Academic Standards

To graduate with a major in interior architecture you must undergo 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, Transfer Policy

The Division of Interior Architecture will offer credit-by-exam for all its general degree requirement courses: IA 130, 150, 160, 309, 310, and 315. Material normally covered in the courses forms the basis of the comprehensive written exams.

If you wish to take an exam for credit, first confer with the IA division head. Then meet with the faculty member who most recently taught the course who will, prior to administering the exam, inform you in writing of the required minimum passing score. The results will be provided 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 of previous work 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 a 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 130. 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 140. History of Architecture, Design and Decorative Arts. 3 cr. Survey of architecture, design and decorative arts in their cultural and technological contexts from prehistory to present, especially mainstream Western traditions.

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., pass/fail. Portfolio and resume development. Plan for meeting career objectives. Prereq: IA major or written cons instr.

IA 204. Presentation Techniques I. 4 cr. Basic application of drawing, sketching, and describing architectural interiors and furnishings to communicate design concepts. Study and develop architectural drafting skills. Lecture/studio. Prereq: 101.

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: 110, 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: 100, 200, 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 301. Design Charrette. 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 and 370.

IA 314. Architectural Systems. 3 cr. Aesthetic and technological analysis of structural, mechanical, and lighting systems and materials.

IA 315. Sustainable Design. 3 cr. Fundamentals of sustainable design and construction, with an emphasis on green building rating systems, material certification and preparation for LEED professional accreditation. GDR: EL

IA 318. Lighting Design. 3 cr. Lighting design and technology applied to interior architectural spaces. Lecture/studio. Prereq: 212 and 370.

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 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., pass/fail. 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 cr. Supervised program of applied design practice at approved cooperating design practice site. May repeat for 2 cr max. Prereq: 212.

IA 395. Professional Practice. 3 cr. Business and design practice including procedures, philosophies, ethics, marketing, sales and resources. Prereq: 394.

IA 396. Advanced Field Experience. 1-12 cr. Supervised program of applied design practice at approved cooperating design practice site. 3 cr max count toward design electives. Prereq: 311 and con reg in 394.

IA 399. Special Work. 1-3 cr. Upperclass majors may arrange for independent study with cons chair. Credit based on scope of project. Prereq: IA major or written cons instr.

IA 400. Professional Development. 3 cr. pass/fail. Portfolio and resume development. Plan for meeting career objectives. Prereq: 411 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 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.

Interior Architecture Latent Course: Not offered recently. See full course description in indicated (xx-xx) catalog.

110 Architectural Drafting, 3 cr, (07-09)

233 Textiles for Interiors, 3 cr, (07-09)

300 Professional Development for Internship, 2 cr, (05-07)

360 Ergonomics, 3 cr, (07-09)

418 Advanced Lighting Design, 3 cr, (07-09)

INTERIOR DESIGN

See *Interior Architecture*.

INTERNATIONAL RESOURCE MANAGEMENT

See *Natural Resources – Human Dimensions of Natural Resource Management*.

International Studies

(College of Letters and Science)

Sally Kent, Coordinator

Room 461, Collins Classroom Center

Phone: 715-346-4442

E-mail: skent@uwsp.edu

Abbreviation: INTL = International Studies

Definition: International studies is an interdisciplinary program designed to help you understand social and cultural developments in 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.

- Core courses**, 9 credits: History 101 or 102; Geography 110 or 113, Political Science 160 or 180.
- Language requirement**, 0-19 credits:
 - If your native language is English, you must complete or test out of one foreign language course beyond the fourth semester college level.
 - 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.
- 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.
 - African and Middle Eastern Studies:** English 281, 282*; Geography 300; History 219, 220, 318, 319, 391*; Interior Architecture 310*; INTL 300, 381, 391, 395, 399; Political Science 372.
 - Asian Studies:** Art 397*; Business 496*; Geography 325, 327; History 215, 216, 225, 312*, 318, 319, 344, 345, 346, 347, 348, 349, 350, 351, 391*; Interior Architecture 310*; INTL 300, 381, 391, 395, 399; Philosophy 105; Political Science 370, 371; Religious Studies 100, 333, 340, 341; Theatre 461.
 - Australian, New Zealand, and Southwest Pacific Studies:** Anthropology 338; English 383*; Geography 302, 350; History 312*; INTL 300, 381, 391, 395, 399; Political Science 490*.
 - European Studies:** Art 282, 283, 382, 383, 385, 386, 387, 388, 389, 392, 393, 397*; Business 490*, 496*; Communication 362*, 367, 369*; 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, 329; German 340, 355, 360, 370, 381, 493; History 106, 107, 108, 120, 304, 305, 306, 309, 312*, 315, 316, 321, 322, 323, 324, 325, 330, 331, 332, 333, 335, 392*, 393; INTL 300, 381, 391, 395, 399; Interior Architecture 391*; Music 220, 221, 300*, 320, 321, 326; Natural Resources 475; Philosophy 325, 326, 327; Political Science 361, 362, 364, 366, 384, 394; Spanish 340, 341, 342, 381, 493; Theatre 329*, 351, 352, 452, 490*, 492*; Women's Studies 300*.
 - Latin American Studies:** Anthropology 335; Art 397*; Comparative Literature 243; Foreign Language 381*; Geography 391*; History 253, 254, 312*, 352, 353, 355, 381; INTL 300, 381, 391, 395, 399; Natural Resources 479*; Spanish 353, 354, 383, 493*.
 - Russian and Eastern European Studies:** Communication 364; History 312*, 329, 337, 338, 339, 340, 341; INTL 300, 381, 391, 395, 399; Political Science 362, 364, 366, 384.

124 Library Resources

- g. **Global Studies:** Anthropology 110; Art 380NW; Business 327, 339, 342; Communication 302, 360, 361, 390*; Economics 210, 362, 365; English 319, 361, 362, 374; Geography 340, 365; History 260, 363, 373*, 390; Interior Architecture 150, 310*; Music 307; Natural Resources 220, 323, 475; Peace Studies 200; Political Sci 305, 374, 376, 383, 385, 386, 387, 388, 396; Religious Studies 302, 321*; Sociology 360, 370.

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.
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 395. Internship. 1-12 cr. Supervised work in a cooperating organization or agency. One credit for 60 hrs work. Credits and/or additional requirements set by instructor before registration. May apply 3 cr max to Intl Studies major/minor. Prereq: Jr or sr st and 2.75 GPA in major/minor and cons intl coord.

INTL 399. Independent Study. 1-3 cr. Individual study of an international topic or a specialized subject in approp 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**.

LIBERAL ARTS

See **American 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**.

LIFE SCIENCE

See **Natural Science**.

MASTER'S DEGREE

See the **Graduate** section later in this catalog.

Mathematical Sciences (College of Letters and Science)

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Faculty: A Felt, H Gonchigdanzan, D Harpster, V Hay, J Herder, J Herman, J Immel, P Jaberg, R Kreczner, S Madison, C McCabe, R Mitchell, M Olson, D Rohm, L Schoch, M Simmers, L Steiner, J Strick, S-Talarico, K Thompson, MR Treuden, ML Treuden, B VanDenHeuvel, N Wetzel, N Wodarz.

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 elsewhere in this catalog.

The **Web and digital media development (WDMD)** major and minor are listed under that title elsewhere 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 40 credits:

- Math 120, 121, 213, 222, 300. We strongly recommend that you complete 213 and 300 before you enroll in courses numbered above 300.
- Take 4 courses from the following groups to provide greater depth in at least one area:
 - Algebra: Math 330, 331.
 - Analysis: Math 324, 327.
 - Probability and statistics: Math 356, 357.
- Complete 3a or 3b below (9 or 10 additional credits)
 - Take three courses selected from Math 305, 310, 315, 320, 323, 324, 327, 330, 331, 335, 356, 357, 360, 367, 372, 468.
 - Take two courses selected from Math 305, 310, 315, 320, 323, 324, 327, 330, 331, 335, 356, 357, 360, 367, 372, 468; and 3 or 4 credits from Math 380, 390, 395, 499.

Mathematics Major with Actuarial Emphasis

Consists of at least 45 credits.

- Math 120, 121, 213, 222, 300, 330, 356, 357.
- CIS 102 (Spreadsheet or Database), 110.
- One course from Math 323, 324, 327.
- Complete 4a or 4b below (9 or 10 additional credits)
 - Take three courses selected from Math 310, 315, 320, 323, 324, 327, 360, 367, 397, 468.
 - Take two courses selected from Math 310, 315, 320, 323, 324, 327, 360, 367, 397, 468; and 3 or 4 credits from Math 380, 390, 395, 499.
- Collateral requirements: Pass at least one of the actuarial exams.
- Recommended collateral areas: business and economics, communication, finance, insurance, writing.

Mathematics Minor

Consists of 25 credits:

- Math 120, 121, 213, 222, 300.
- At least 6 credits from Math 305, 310, 315, 320, 323, 324, 327, 330, 331, 335, 356, 357, 360, 367, 372, 468.

Applied Mathematics Minor

Consists of at least 24 credits:

- Math 120, 121, 213, 356, 357.
- Complete 2 courses from Math 222, 305, 310, 315, 320, 360, 367, 468.

Mathematics Major for Teacher Certification (Secondary/Middle)

Consists of at least 47 credits:

- Required (34 cr): Math 120, 121, 213, 222, 300, 331, 340, and Math Ed 334, 335, 340.
- Complete 2a **OR** 2b below (at least 4 cr):
 - Math 350, Math Ed 350.
 - Math 356, 357.
- Complete 3a **OR** 3b below (9 or 10 additional credits)
 - Take three courses selected from Math 305, 310, 315, 320, 323, 324, 327, 330, 335, 360, 367, 372.

- Take two courses selected from Math 305, 310, 315, 320, 323, 324, 327, 330, 335, 360, 367, 372; and 3 or 4 credits from Math 380, 390, 395, 499.

Mathematics Minor for Elementary Education Majors

Consists of 24 credits plus student teaching:

- Required: Math 345, 359, 369; Math Ed 334, 345, 359, 369.
- Complete either Math 355 or Math 350/Math Ed 350.
- Complete one: Math 109, 111, or 120.
- 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:

- Required (27 cr): Math 120, 121, 213, 300, 340, and Math Ed 334, 335, 340.
- Complete 2a **OR** 2b below (at least 4 cr):
 - Math 350, Math Ed 350.
 - 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.

Additional Academic Standards for Teacher Certification:

- A minimum grade point average of 2.75.
- Elementary education majors are required to take Math 228, 338, Math Ed 228, 338 and Math Ed 345.
- Enrollment caps** are in effect for teacher certification. Contact the Mathematical Sciences 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.

- If you do not feel the placement test has accurately reflected your ability, you may retake the test once, 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.
- 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.
- 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, rational expressions. Algebra for those with low placement test scores who

126 Mathematical Sciences

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 advisor 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; differential equations; 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: 100 and con reg in CIS 120.

MATH 213. Introduction to Linear Algebra. 4 cr. Topics in linear algebra; matrix algebra, systems of linear equations, Gauss-Jordan elimination, determinants, vector spaces, linear independence and bases, linear transformations, eigenvalues and eigenvectors; selected applications. Prereq: 121.

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 for 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 prerequisites, you will not be allowed to take the course.*

MATH 300. Introduction to Proof with Real Analysis. 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: 300 or con reg.

MATH 310. Operations Research I. 3 cr. Formulation and computation of linear programming problems: simplex method, duality, sensitivity analysis, computer solutions; integer programming; network flows with applications. Prereq: 213 or 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 320. Differential Equations. 3 cr. Introduction to ordinary differential equations of the first and second order; linear equations with constant coefficients; solution in series; numerical approximations; Laplace transforms; system of ordinary equations; selected applications. Prereq: 222.

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: 213 or 220, and 222, 300.

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: 213 or 220, and 300.

MATH 331. Abstract Algebra. 3 cr. Groups, rings, fields, number systems, Euclidean domains, and polynomials. Prereq: 213 or 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 350. 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 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: 213 or 220, and 300.

MATH 380. History of Mathematics. 3 cr. A survey of the history of mathematics with emphasis on mathematical ideas, problems, and methods from early civilization to the present. Prereq: 213 or 222.

MATH 390/590. Special Topics in Mathematics. 1-3 cr. Subtitle will designate topic and number of credits. Prereq: cons chair.

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 advisor and chair following dept guidelines. May repeat for 6 cr max. Prereq: Jr st and cons instr.

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. See full course description in indicated (xx-xx) catalog.

220	Introduction to Linear Algebra and Differential Equations, 4 cr, (07-09)
321	Intermediate Differential Equations, 3 cr, (07-09)
322	Vector Analysis, 3 cr, (03-05)
323	Foundations of Analysis, 3 cr, (07-09)
360	Numerical Analysis, 3 cr, (03-05)
395	Seminar, 1 cr, (07-09)
455/655	Advanced Statistical Methods, 4cr, (07-09)
468	Applied Statistics, 3 cr (07-09)
550	Probability and Statistics with Teaching Methods, 3 cr, (07-09)

Courses in Mathematics Education

M ED 228. Teaching Elementary School Mathematics I. 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: 3 cr of math for elementary teachers equivalent to Math 228.

M ED 334. 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, admis to Prof 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: Math Ed 228 or 229; and 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: 3 cr of math for elementary teachers equiv to Math 338.

M ED 340. Teaching Secondary Geometry. 1 cr. Techniques, research, curricular planning, and evaluation issues related to teaching geometry at secondary level. Prereq: 300, 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 approp levels; includes field experience. Prereq: Math Ed 338 or 339; and con reg in Math 345.

M ED 350. 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. 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 math DPI certified major/minor and DPI educ 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. See full course description in indicated (xx-xx) catalog.
550 Teaching Probability and Statistics, 1 cr, (07-09)

MEDIA AND WEB TECHNOLOGY

See *Web and Digital Media Development* and *Art and Design*.

MEDIA STUDIES

See *Communication*.

MEDICAL TECHNOLOGY

See *Health Sciences*.

MICROBIOLOGY

See *Biology*

MIDDLE SCHOOL CERTIFICATION

See *Education*.

Military Science

(College of Professional Studies)

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Faculty: 1LT J Beyerl, MSG M Butcher, SSG J Gano, MAJ R Kehoe, LTC J Kurka, SFC S Pond.

The Military Science Department, through the Army's Reserve Officers' Training Corps (ROTC), offers you an opportunity to receive a commission as a second lieutenant in the U.S. Army, Army Reserve or Army National Guard. While not an academic major, the military science program (MSL) is taken in

128 Military Science

conjunction with and supports your undergraduate or graduate degree. The MSL curriculum provides you with the necessary skills, attributes and experience to successfully lead in a civilian and/or military career. Courses and training are conducted on campus, in the local area or at military training facilities. Army ROTC also offers a variety of scholarships and financial incentives if you choose to commit to military service as an officer. MSL is divided into a basic and advanced course.

MSL Basic Course, 9 credits: Freshman level courses MSL 101, 102, and 111 introduce you to the Army profession and military leadership. Sophomore level courses MSL 201 and 202 focus on an experiential examination of leadership, decision making and group dynamics. This basic course will give you a basic understanding of the unique aspects of the officer corps, fundamentals of leadership and decision making, Army institutional values, and principles of individual fitness and healthy lifestyles. Lessons emphasize practical classroom exercises, inspire intellectual curiosity, and stimulate self-study.

MSL Advanced Course, 16 credits: Prerequisite for the advanced course is the basic course or advanced placement credit. Components of the advanced course are: (1) junior level courses MSL 301 and 302 for advanced leadership and decision-making development; (2) Leader Development and Assessment Course (LDAC) described below; and (3) senior level courses MSL 401 and 402 with experiential learning to guide you through transition from cadet to Army officer. The lessons are sequenced, linked and progressive to target development of key officer/leader competencies.

Advanced Placement Credit: You may request placement into the advanced course from the department chair provided you have completed either the Leader's Training course (LTC) described below or a basic training course in one of the armed services. If approved you will receive 8 credits upon completion of MSL 301 with a grade of C or better.

Internships: Military Science offers two types of internships that may, with consent of the department chair and the department chair of your academic major, fulfill other academic internship requirements.

- a. **Leader's Training Course (LTC)** (no military obligation incurred). This paid, four-week course, held at Fort Knox, Ky., is open to sophomores and juniors with four semesters of undergraduate study remaining who have not already completed a basic military training course in any of the armed services or the MSL basic course. The high adventure, activity-based training develops leadership, decision-making and management skills. Prerequisites are motivation, initiative and a drive for adventure. Upon completion you receive 8 credits and have the opportunity to enter the MSL advanced course to pursue a commission as a second lieutenant in the Army.
- b. **Leader Development and Assessment Course (LDAC)** (military service obligation required). This internship provides the single most important block of training and evaluation in the progression of an Army cadet. Throughout LDAC's 33 training days at Fort Lewis, Wash., you encounter stress-inducing physical and mental obstacles to challenge you as an individual, soldier and leader. You are immersed in an experiential learning environment with cadets from over 270 universities. LDAC uses small unit tactical training as the vehicle for further developing self-confidence and evaluating your leadership abilities and potential to serve as a commissioned officer. Prerequisites are completion of the MSL basic course, MSL 301, 302 and an Army contractual obligation for future service as a commissioned officer in the active Army, Army Reserve or Army National Guard.

Military Science Minor

Consists of 28 credits.

1. Required: MSL 101*, 102*, 111*, 201*, 202*, 301, 302, 401, 402.

2. Electives: Three credits from History 219, 220, 318, 338, 354, 357, 358, 363, 364, 376, 390; Political Science 383, 386.

*Complete these courses or receive credit through advanced placement (described above).

Courses in Military Science

MSL 101. Introduction to Military Leadership I. 1 cr. Introduction to Army profession and military leadership. Explore seven Army values and 16 Army leadership dimensions, plus core competencies critical to effective leadership such as time management, problem solving, decision making. Useful manager/leader skills whether military or civilian. Seminar format with practical exercises. Open to all students. 1 hr lec per wk. Prereq: Con reg in 111.

MSL 102. Introduction to Military Leadership II. 1 cr. Continuation of 101, expanding ability to apply problem-solving and decision-making processes and further develop military leadership and competency. 1 hr lec per wk.

MSL 111. Fall Leadership Lab. 1 cr. Off-campus weekend leadership orientation in a military environment with outdoor physical activities to support 101 curriculum. Includes pugil stick, obstacle course, rappelling and airborne tower training. Prereq: Con reg in 101. GDR:WL/AA

MSL 121. Fall Leadership Lab. 1 cr. Continuation of 111. Prereq: Con reg in 201. GDR:WL/AA

MSL 153. Advanced Physical Training. 1 cr. Techniques to improve muscular strength and endurance and cardio-respiratory capacity. Includes strength and aerobic exercises, water confidence training, distance running, military drills and team sports. Open to all students. GDR:WL/AA

MSL 154. Advanced Physical Training. 1 cr. Continuation of 153. GDR:WL/AA

MSL 201. Innovative Tactical Leadership. 3 cr. Identify successful leadership characteristics through practical exercises. Record observed traits/situations to illustrate concepts and apply situational leadership analysis. Develop personal leadership style. Includes physical training and leadership lab. 2 hrs lec, 2 hrs lab per wk. Optional con reg in 121. Prereq: 101, 102, or cons instr.

MSL 202. Leadership in Contemporary Military Environments. 3 cr. Includes team building, influencing action, effective communication for setting/achieving goals, importance of timing a decision, creativity in problem-solving process, obtaining team buy-in through immediate feedback. Transition for MSL Advanced Course. Physical training and leadership lab. 2 hrs lec, 2 hrs lab per wk. Prereq: 101, 102, 201, or cons instr.

MSL 250. Accelerated Cadet Commissioning Training. 1 cr. Establish foundation of basic U.S. Army military and leadership fundamentals as well as individual soldier skills and knowledge base for progression into Army ROTC advanced course.

MSL 301. Adaptive Team Leadership. 4 cr. Study, practice and evaluate adaptive leadership attributes, skills and actions through individual leader and small unit tactical scenarios. Receive systematic and specific feedback on leadership abilities. Prepare for Leader Development and Assessment Course (LDAC). Physical training and leadership lab. 2 hrs lec, 5 hrs lab per wk. Prereq: 101, 102, 201, 202, advanced placement, or cons chair.

MSL 302. Leadership and Ethical Decision Making. 4 cr. Increasingly intense situational challenges for leading small units. Explore, evaluate, develop skills in ethical decision-making and persuading/motivating team members when under pressure. Aspects of contemporary military operations to foster proficiency in leadership ability and to prepare for LDAC. How to think as a leader in today's military. Physical training and leadership lab. 2 hrs lec, 5 hrs lab per wk. Prereq: 301 or cons chair.

MSL 399. Special Work in Contemporary Military Leadership. 1-3 cr. Design individual study plan in consultation with MSL faculty. May repeat for 7 cr max. Prereq: Cons chair.

MSL 401. Building Adaptive Leaders. 4 cr. Develop proficiency to plan, conduct and assess complex operations; function as member of Army command and staff team. Teach, coach, mentor fellow cadets. Explore Army training management, methods of effective staff collaboration, and developmental counseling techniques. Physical training and leadership lab. 2 hrs lec, 5 hrs lab per wk. Prereq: 302 or cons chair.

MSL 402. Leadership in a Complex Security Environment. 4 cr.
Dynamics of leading in complex situations of current military operations. Examine cultural influences in military operations, military law, laws for land warfare and rules for use of military force in asymmetric warfare. Aspects of interacting with nongovernmental organizations, civilians on the battlefield and host nation support. Completes transition from student/cadet to Army lieutenant. Physical training and leadership lab. 2 hrs lec, 5 hrs lab per wk. Prereq: 401 or cons chair.

Military Science Leadership Latent Courses: Not offered recently. See full course description in indicated (XX-XX) catalog.

103	Leadership Lab, 1 cr, (95-97)
104	Leadership Lab, 1 cr, (95-97)
112	Spring Leadership Lab, 1 cr, (05-07)
122	Spring Leadership Lab, 1 cr, (05-07)
215	Leadership Lab, 1 cr, (95-97)
216	Leadership Lab, 1 cr, (95-97)

MINORITY AND ETHNIC STUDIES

See *History* and *Sociology* and *Native American Studies*.

Museum Techniques (College of Letters and Science)

Erik Wild, Biology
Room 477, College of Natural Resources
Phone: 715-346-4269
E-mail: ewild@uwsp.edu or 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 International Programs Office for more information.

Music

(College of Fine Arts & Communication)

Patricia Holland, Chair
Room 254, Noel Fine Arts Center
Phone: 715-346-3107
E-mail: music@uwsp.edu
Web: www.uwsp.edu/music

Faculty: S Bender, S Berk, R Besalyan, S Bjella, J Bond, M Buchman, B Caldwell, D Hastings, P Holland, R Korb, L Leviton, B Martz, T McComb, P Miles, M Roseman, A Rosen, R Rosen, D Story, L Thayer, B Turney, D Wilhoit, C Young.

Mission Statement

To provide a dynamic environment where innovation and leadership in creativity, teaching, performance, and advocacy set a new standard for education through music.

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 Advisor" 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 Campus Band, Instrumental Jazz Ensemble, University Orchestra, and numerous small ensembles.
7. Course numbers listed below without a prefix or name are music courses.

Bachelor of Arts Degree in Music

Consists of 46-52 credits.

1. Theory, 14 credits: 110, 111, 112, 113, 210, 212, 379. Placement exam required. If you have insufficient background, take 109 as prereq.
2. Applied music, 8-14 credits.
 - a. Major applied instrument, 8 credits. You must complete the 200 level of study on your major instrument before graduation.
 - b. Minor applied instrument, 0-6 credits. When piano is not your major applied instrument, complete 246 or Level 100 of applied piano.
3. Large ensemble, 1 credit per semester; required every semester enrolled. (See Note 3 above.) Piano majors: 1 cr of MUS 328 (taken in lieu of large ensemble upon course offering).
4. Music literature, 12 credits: 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 advisor.
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. In your first semester, with your applied teacher's approval, you may audition to enter the performance degree program in the second semester of the freshman year. You must perform a half recital in your junior year and a full recital in your senior year. You must complete the 400 level of study.
 - a. Applied music, 28 credits: 160 (4 cr); 260, 360, and 460 (24 cr).
 - b. Theory, 19 credits: 110, 111, 112, 113, 210, 212, 379; and 5 cr from 315, 317, 394 or 395, 410, 479.

130 Music

- Placement exam required. If insufficient background, 109 is prereq.
- c. Music literature and history, 18 credits: 220, 221, 320, 321, 420, 421.
 - d. Piano pedagogy, 2 credits: 491.
 - e. Required ensemble: 10 credits, 8 cr from large ensembles (1 cr per semester) and 1 cr each from 328 and 429. (See Note 3 above.)
2. **Voice.** Admitted by audition only. Your performance proficiency will be reviewed at the end of your freshman year for permission to continue. In your first semester, with your applied teacher's approval, you may audition to enter the performance degree program in the second semester of the freshman year. You must complete 246 or Level 100 of applied piano and complete the 400 level of study in voice. You must perform a half recital in your junior year in voice and give a senior recital.
 - a. Applied music, 28 credits: 162 (4 cr); 262, 362, and 462, (24 cr).
 - b. Theory, 20 credits: 110, 111, 112, 113, 210, 212, 317, 379; and 4 cr from 394, 410, 479. Placement exam required. If insufficient background, 109 is prereq.
 - c. Music literature and history, 18 credits: 220, 221, 320, 321, 323, 422.
 - d. Vocal pedagogy, 2 credits: 492.
 - e. Large ensemble, 8 credits of 341 (1 cr per semester). (See Note 3 above.)
 - f. Opera workshop, 2 credits: 390.
 - g. Diction I and II, 2 credits: 302 and 303.
 3. **String instrument.** Admitted by audition only. Your performance proficiency will be reviewed at the end of your freshman year for permission to continue. In your first semester, with your applied teacher's approval, you may audition to enter the performance degree program in the second semester of the freshman year. You must complete 246 or Level 100 of applied piano and complete the 400 level of study in your major instrument. You must perform a half recital in your junior year in your major instrument and give a senior recital.
 - a. Applied music, 28 credits: 163-166 (4 cr); 263-266, 363-366, and 463-466 (24 cr).
 - b. Theory, 23 credits: 110, 111, 112, 113, 210, 212, 315, 317, 379, and 5 cr from 395, 410, 479. Placement exam required. If insufficient background, 109 is prereq.
 - c. Music literature and history, 15 credits: 220, 221, 320, 321, and 426 or 427.
 - d. String pedagogy, 2 credits: 496.
 - e. Large ensemble, 12 credits: 8 cr of 342 (1 cr per semester) and 4 cr of 131-431. (See Note 3 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. In your first semester, with your applied teacher's approval, you may audition to enter the performance degree program in the second semester of the freshman year. You must complete 246 or Level 100 of applied piano and complete the 400 level of study in your major instrument. You must perform a half recital in your junior year in your major instrument and give a senior recital.
 - a. Applied music, 28 credits: 167-176 (4 cr); 267-276, 367-376, and 467-476 (24 cr).
 - b. Theory, 23 credits: 110, 111, 112, 113, 210, 212, 315, 317, 379; and 5 cr from 395, 410, 479. Placement exam required. If insufficient background, 109 is prereq.
 - c. Music literature and history, 15 credits: 220, 221, 320, 321, and 426 or 427.
 - d. Woodwind or brass pedagogy, 2 crs: 493 or 494.
 - e. Large ensemble, 8 credits: 1 cr per semester. (See Note 3 above.)
 5. **Percussion.** Admitted by audition only. Your performance proficiency will be reviewed at the end of your freshman year for permission to continue. In your first semester, with your applied teacher's approval, you may audition to enter the performance degree program in the second semester of the freshman year. You must complete 246 or Level 100 of applied piano and complete the 400 level of study in your major instrument. You must present a half recital in your junior year in your major instrument and give a senior recital.
 - a. Applied music, 28 credits: 177 (4 cr); 277, 377, and 477 (24 cr).
 - b. Theory, 23 credits: 110, 111, 112, 113, 210, 212, 315, 317, 379, and 5 cr from 395, 410, 479. Placement exam required. If insufficient background, 109 is prereq.
 - c. Music literature and history, 15 credits: 220, 221, 320, 321, and 426 or 427.
 - d. Percussion pedagogy, 2 credits: 495.
 - e. Large ensemble, 8 credits: 1 cr per semester. (See Note 3 above.)

Bachelor of Music–Jazz Studies Option

1. Theory, 18 credits: 110, 111, 112, 113, 210, 212, 291, 317, 379.
2. Creative techniques, 9 cr: 192, 292, 217; WDMD 100.
3. History and literature, 9 credits: 220, 305 and 321; and 3 cr from 221, 320.
4. Senior seminar, 2 credits: 418.
5. ONE of the following emphases:
 - a. **Performance Emphasis:** Admitted by audition only. Nonpiano majors must complete 246 or Level 100 in piano. Woodwind majors must demonstrate proficiency on two secondary instruments equivalent to 167, 169 and/or 171. All performance majors must present a junior half recital and a senior recital.
 - 1) Applied music, 28 credits: 4 cr from 160, 162, 166-177, 181; 4 cr from 260, 262, 266-277, 281; 2 cr from 360, 362, 366-377, 381; 16 cr from 383, 483; 2 cr of 392.
 - 2) Required ensemble, 18 credits: 4 cr from 341, 342, 343 (1 cr per semester); enroll in 345 each semester; 6 cr from 123, 223.
 - b. **Composition/Arranging Emphasis:** Nonpiano majors take 247. If placed in private piano, complete Level 100 and 247. All composition majors must present a junior half recital and a senior recital.
 - 1) Theory, 7 credits: 315, 394/395, 410.
 - 2) Composition/arranging, 8 credits from 384, 479, or 484.
 - 3) Applied music, 10 credits: 4 cr from 160-181; 4 cr from 260-281; 2 cr from 360-381.
 - 4) Required ensemble, 14 credits: 4 cr from 341, 342, 343 (1 cr per semester); enroll in 345 each semester; 4 cr from 123, 223.

Bachelor of Music - Music Education Option

There are three majors in music education (K-12): (1) instrumental; (2) choral; and (3) general music. When you major in one area, you can complete "add-on" certification requirements in the other two.

In addition, a noncertifiable area of emphasis is available in Suzuki talent education to complement the music education tracks.

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, 12-13 credits: 200, 205, 300, 351, 381, 386. You also need History 211 and 212; Political Science 101, Psychology 110; one biological science and one physical science course. You must have a 2.75 GPA to student teach.
 - b. Music Ed, 21 cr: 201, 324, 326, 398 or 498, 400.
 - 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, 109 is prereq.
 - 2) Orchestration, 2 credits: 315.
 - 3) Applied music, 10 credits: complete the 300 level of study on a band or orchestra instrument or piano. Perform in a juried public performance at approp level.
 - 4) Applied music (minor): Music 246 or Level 100 in applied piano or complete the 200 level of study on a band or orchestra instrument if piano is the major instrument.
 - 5) Music literature, 12 cr: 220, 221, 320, 321.
 - 6) Instrumental methods, 10 credits: 152, 153, 155, 156, 157. (String majors must take 154 with 153 as prereq.) (Percussion majors may substitute 2 semesters of 138/238/348/438 for 155.)
 - 7) Vocal techniques, 1 credit: 150.
 - 8) Conducting, 4 credits: 317, 395.
 - 9) Large ensemble, 7 credits min (1 cr per semester). Required every semester enrolled except student teaching. (See Note 3 above.) Piano majors: 1 cr from MUS 328 (taken in lieu of large ensemble upon course offering).
2. **Choral (K-12):**
 - a. Education, 12-13 credits: 200, 205, 300, 351, 381, 386. You also need History 211 and 212; Political Science 101; Psychology 110; 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 or 498, 400.
 - c. Music, 62 credits:
 - 1) Theory, 14 credits: 110, 111, 112, 113, 210, 212, 379. Placement exam required. If insufficient background, 109 is prereq.
 - 2) Vocal pedagogy, 2 credits: 492.
 - 3) Applied music (major), 10 credits: complete 300 level study in voice or piano. Perform in juried public performance at approp level.
 - 4) Applied music (minor): complete 200 level in voice or 247 in piano. If placed in private piano study, complete Level 100 and 247.
 - 5) Music lit, 14 crs: 220, 221, 320, 321, 322.
 - 6) Conducting, 4 credits: 317, 394.
 - 7) Large ensemble, 7 credits min (1 cr per semester); 341 required every semester enrolled except student teaching. (See Note 3 above.) Piano majors: 1 cr from MUS 328 (taken in lieu of large ensemble upon course offering).
 - 8) Additional ensemble, 2 credits: 130 and 390 (1 cr each).
 - 9) Diction, 2 credits: 302 and 303.
3. **General Music (K-12).**
 - a. Education, 12-13 credits: 200, 205, 300, 351, 381, 386. You also need History 211 and 212; Political Science 101, Psychology 110; one biological science and one physical science course. You must have a 2.75 GPA to student teach.
 - b. Music Ed, 21 cr: 201, 323, 382, 398 or 498, 400.
 - c. Music, 57 credits:
 - 1) Theory, 14 credits: 110, 111, 112, 113, 210, 212, 379. Placement exam required. If insufficient background, 109 is prereq.
 - 2) Applied music (major), 10 credits: complete 300 level of study in voice, piano, or another instrument. Perform in juried public performance at appropriate level.
 - 3) Applied music (minor): **Voice majors:** complete 247. **Instrumental majors:** take 150 and pass voice evaluation. Complete 247 if not a piano major. If placed in private piano study, complete Level 100 and Music 247.
 - 4) Music literature, 15 credits: 220, 221, 320, 321, and choice of 305 or 329.
 - 5) Conducting, 2 credits: 317.
 - 6) Large ensemble, 7 credits min (1 cr per semester); required every semester enrolled except student teaching. (See Note 3 above.) Instrumental majors must complete 2 additional semesters of 341. Piano majors: 1 cr from MUS 328 (taken in lieu of large ensemble upon course offering).
 - 7) Diction, 1 credit: 302.
4. **Add-on certification areas.** We recommend that voice or piano majors complete both choral (K-12) and general music (K-12) tracks. If you are an instrumental major, you may also wish to expand your certification areas. Consult your advisor.
 - a. **Instrumental (K-12)** certification for choral or general majors:
 - 1) Major applied band or orchestra instrument: complete 200 level of study.
 - 2) Instrumental methods, 10 credits: 152, 153, 155, 156, 157. (String majors must take 154 with 153 as prereq. Percussion majors may substitute 2 semesters of 138-438 for 155.)
 - 3) Music education, 4 cr: 324, 326. Advanced instrumental conducting, 2 cr: 395. Large ensemble, 4 cr: 342 or 343.
 - 4) Student teaching, 5 cr min: Music Ed 398 or 498, 400.
 - b. **Choral (K-12)** certification for instrumental or general majors:
 - 1) Voice applied: complete 200 level of study.
 - 2) Piano applied: 247.
 - 3) Large ensemble: 4 credits: 341.
 - 4) Small vocal essemble, 1 credit: 130 and 390.
 - 5) Choral literature: 322.
 - 6) Choral conducting, 2 credits: 394.
 - 7) Vocal pedagogy, 2 credits: 492.
 - 8) Methods: Music Ed 325.
 - 9) Student teaching, 5 cr min: Music Ed 398 or 498, 400.
 - c. **General music (K-12)** certification for instrumental or choral majors:
 - 1) Voice applied: complete 100 level of study if a choral major or Music 150 and voice evaluation if an instrumental major.
 - 2) Piano applied: 247.
 - 3) Large ensemble, 2 semesters: 341.
 - 4) Elementary methods, 2 crs: Music Ed 323.
 - 5) Secondary methods, 2 credits: Music Ed 382.
 - 6) Additional music history, 3 cr: 305 or 329.
 - 7) Student teaching, 5 cr min: Music Ed 398 or 498, 400.
 - d. **Exceptional education: music education (#861):** for music education majors only.
 - 1) Student teaching: Music Ed 390 (2 cr), 398 or 498 (4 cr with excep children), and 400.
 - 2) Education, 6 cr: Education 351, 354.
5. **Suzuki Talent Education, Area of Emphasis.** Special interest area that does NOT lead to certification, 9 credits: Music Ed 384, 385, 386, 426.

Bachelor of Music– Music Literature Option

1. Theory, 14 credits: 110, 111, 112, 113, 210, 212, 379. Placement exam required. If insufficient background, 109 is prereq.

132 Music

- Theory electives, 4 credits from 315, 317, 394, 395, 410, 479.
- Applied music (major), 12 credits: complete 300 level of study on major instrument and 246 or Level 100 of applied piano.
- Large ensemble, 8 credits (1 cr per semester) from 341, 342, 343. (See Note 3 above.) Piano majors: 1 cr from MUS 328 (taken in lieu of large ensemble upon course offering).
- Music literature. 34 credits:
 - Required, 25 credits: 327, 428 (each 2 cr), 220, 221, 320, 321, 326, 329, 427 (each 3 cr).
 - Electives, 9 cr from 301, 305, 307, 308, 309, 322, 323, 420, 421, 422, 424, 426 (each 3 cr).

Music Minor

Consists of 24 credits:

- Theory, 8 credits: 110, 111, 112, 113. Placement exam required. If insufficient background, 109 is prereq.
- Applied, 4 credits: 160-181 (2 cr per semester).
- Large ensemble, 4 credits: 140, 341, 342, 343, 344, or 345 (2 cr per semester).
- Music electives, 8 credits, selected from at least two of the following groups: (Note: Music 100, 102, 109; Music Ed 201, 381 do not count toward music minor.)
 - Theory/composition courses.
 - Conducting courses.
 - Music history and literature courses.
 - Music education courses.
 - Small or large ensembles.
 - Jazz studies: performance, history, or analysis.
 - Private applied or class applied.
- 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 advisor regarding your musical objectives, music electives, and the recital attendance requirement.

Academic Standards

- Permission to register, placement, and exceptions to the requirements are subject to the approval of the instructor and the chair.
- 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.
- 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 course repeat policy found in the **More Academic Information** section of this catalog.
- 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 transfer-ring 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.

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/performances, 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, broadcasting. Does not count toward music major/minor, or bachelor's degree in music. Subtitle designates exam 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 123-138. Small Ensembles I. 1 cr each. May repeat for credit. Prereq: Cons instr.

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–Percussion.

MUS 144. Campus Band. 1 cr. Opportunity for nonmusic majors to continue playing in a musical organization (concert band) for enrichment. No audition required. May repeat for credit. Prereq: Must play a band instrument.

MUS 145. Pep Band. 1 cr. Performance ensemble for nonmusic and music majors to promote school spirit and crowd participation at university and athletic events. No audition required. May repeat for credit. Prereq: Play a pep band instrument.

MUS 146. Group Piano I. 2 cr. Keyboard skills for the nonpianist music major. Beginning skills in technique, reading, harmonization, transposition, selected repertoire and improvisation. Prereq: Audition.

MUS 147. Group Piano II. 2 cr. Keyboard skills for the nonpianist music major. Extension of skills in technique, reading, harmonization, transposition, selected repertoire and improvisation. Prereq: 146 or audition.

MUS 150. Vocal Techniques for Instrumentalists. 1 cr. Class participation and observation. Prereq: Instrumental or general music ed major; con reg in MUS 341 if seeking general licensure.

MUS 152. Instrumental Methods: Single Reeds. 2 cr. Class participation/observation. Prereq: Instrumental music ed major.

MUS 153. Instrumental Methods: Violin/Viola/Cello/String Bass. 2 cr. Class participation and observation. Prereq: Instrumental music ed major; 152; or cons instr.

MUS 154. Instrumental Methods: Violin (sec 1), Cello (sec 2). 1 cr. Class participation and observation. Prereq: Instrumental music ed major; 152, 153; or cons instr.

MUS 155. Instrumental Methods: Percussion. 2 cr. Class participation and observation. Prereq: Instrumental music ed major; 152, 153; or cons instr.

MUS 156. Instrumental Methods: Brass. 2 cr. Class participation and observation. Prereq: Instrumental music ed major; 152, 153, 155; or cons instr.

MUS 157. Instrumental Methods: Double Reeds/Flute. 2 cr. Class participation and observation. Prereq: Instrumental music ed major; 152, 153, 155, 156; or cons instr.

MUS 160-181. Applied Music I. 2-4 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-Percussion;
178-Harp; 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 chromatic idiom. Prereq: 111, 113, 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. 2 cr. Introduction to jazz arranging styles for small and large ensembles. Prereq: 111 or cons instr.

MUS 220 (NW). Introduction to Music Literature. 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. GDR:HU1

MUS 221. 17th- 18th Century Music. 3 cr. Musical idioms and styles of Baroque and Classical periods; development of new forms; relationship of music to general culture of period. GDR:HU1

MUS 223-238. Small Ensembles II. 1 cr each. Same listing as 123-138 at sophomore level. May repeat once for credit. Prereq: 123-138.

MUS 246. Group Piano III. 2 cr. Keyboard skills for the nonpianist music major. Extension of skills in technique, reading, harmonization, transposition, selected repertoire and improvisation, including introduction to open-score reading. Prereq: 147 or audition.

MUS 247. Group Piano IV. 2 cr. For BM jazz composition/arranging majors; BME vocal/choral majors; and general music add-on certification. Skills in open-score reading, hymn textures, harmonization, transposition and accompaniments. Prereq: 246 or 160.

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. 2 cr. Basic keyboard skills in chord voicing, accompanying, and chord/scale relationships. Prereq: 210 or cons instr.

MUS 292. Jazz Improvisation II. 2 cr. Study and apply chord/scale relationships with respect to minor iiø-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. 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. Introduction to international phonetic alphabet (IPA) and its application to singing Latin, Italian, and English song repertoire. 1 hr lec, 1 hr lab per wk. Prereq: Cons instr.

MUS 303. Diction for Singers II. 1 cr. Application of International Phonetic Alphabet (IPA) to German and French song repertoire. 1 hr lec, 1 hr lab per wk. Prereq: 302 or cons instr.

MUS 305/505(MNS). Jazz History for Musicians. 3 cr. History of jazz from its genesis to present. Focus on important artists as well as social, political and technological effects on music. GDR:HU1

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 315. 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. Introduction to Music Business. 2 cr. Copyright law, unions and guilds, recording industry, television/film and radio, music management.

MUS 320/520. 19th Century Music. 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. GDR:HU1

MUS 321/521. 20th Century Music. 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. Prereq: 210, 212.

MUS 322. Choral Literature. 2 cr. Survey significant choral compositions from Renaissance to present, with stylistic understanding.

MUS 323/523. Opera History. 3 cr. Opera history from 1600 to present, with masterworks from 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 pianists; develop accompanying skills in vocal and instrumental music; required for all piano emphasis majors. Fulfills one major ensemble credit; taken in lieu of major ensemble upon course offering except for applied majors. Prereq: 160 or 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-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.

***For 341/541, 342/542, 343/543, 345/545 above: Choice of 1 or 2 credits; may be taken for 2 credits with permission of instructor and additional responsibilities.**

MUS 360-384. 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.

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; 378-Harp; 379-Composition; 381-Jazz Guitar;
383-Jazz; 384-Jazz Composition.

MUS 390. Opera Workshop. 1 cr. Practical experience in training the singer/actor. May repeat for credit.

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.

134 Music

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. Piano Literature II. 3 cr. Keyboard literature from 1825 to present with emphasis on major composers and their contributions.

MUS 422/622. Song Literature. 3 cr. Study solo vocal literature from 1500 to present. Prereq: Cons instr.

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 & 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: Complete piano level 200.

MUS 492. Voice Pedagogy. 2 cr. Introduction to vocal teaching methods. Prereq: cons instr.

MUS 493. Woodwind Pedagogy. 2 cr. Methods of teaching woodwind instruments and specific problems of each instrument. Prereq: Complete 300 level study.

MUS 494. Brass Pedagogy. 2 cr. Methods of teaching brass instruments and specific problems of each instrument. Prereq: Complete 300 level study.

MUS 495. Percussion Pedagogy. 2 cr. Percussion literature and reference material including method books, textbooks, and publisher sources. Prereq: Complete percussion level 200.

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: 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. For studio pedagogy and Suzuki, elect large ensemble (541, 542, or 543) or studio accompanying (piano students only, 528) concurrently.

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. See full course description in indicated (xx-xx) catalog.

122/222 Small Ensembles I, Vocal Jazz, 1 cr, (03-05)

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)

159 Group Piano for Elementary Teacher, 2 cr, (07-09)

161/261/361/461/761: Applied Music I—Organ, 2 cr, (93-95)

180/280/380/480/780: Applied Music I—Classical Guitar, 2 cr (93-95)

309 Historical Analysis of American Popular Music, 3 cr, (07-09)

311 Advanced Theory II, 3 cr.

324/524 Organ Literature I, 3 cr, (93-95)

325/525 Organ Literature II, 3 cr, (93-95)

421/621 Piano Literature II, 3 cr, (03-05)

344/544 Large Ensemble: Vocal Jazz, 2 cr, (95-97)

349 Service Playing Techniques, 2 cr, (93-95)

359 Applied Music III—Harpichord, 2 or 4 cr, (07-09)

397 Collab Arts Performance Workshop, 1 cr, (01-03)

417/617 Advanced Jazz Arranging Techniques, 2 cr, (01-03)

424/624 History and Literature of Wind Ensemble Music, 2 cr, (07-09)

459 Applied Music IV—Harpichord, 2-4 cr, (01-03)

502 Diction for Singers I, 1 cr, (07-09)

503 Diction for Singers II, 1 cr, (07-09)

515 Orchestration, 2 cr, (07-09)

519 Introduction to Music Business, 2 cr, (07-09)

530 Small Ensemble III—Vocal, 1 cr, (07-09)

531/631 Small Ensemble III—String, 1 cr, (01-03)

621 Piano Literature II, 3 cr, (07-09)

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)

778 Applied Music I—Harp, 2 cr, (07-09)

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 233. 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. Music in the Elementary School. 3 cr. Theory, techniques, 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.

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. 1 cr. Foundations of Suzuki Talent Education philosophy and pedagogical system as a practical approach to developing musical ability in children; pedagogical skills to establish a positive learning environment; discussion, observation and video materials. Individual music performance not required. (May be registered with SAA.)

MUED 385/585. Suzuki Workshop I. 3 cr. 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. (Sec 1-Level I, may repeat once for credit; Sec 2-Level II; Sec 3-Level III; Sec 4-Level IV; Sec 5-Level V; Sec 6-Level VI; Sec 7-Level VII; Sec 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. 1-16 cr, pass/fail. Observation and teaching in elementary and/or secondary classroom under guidance of cooperating teachers and university faculty. Prereq: Con reg in 400; completion of music major, DPI, and education requirements.

MUED 400. Seminar on Teaching. 1-2 cr, pass/fail. Structured group discussion on aspects of teaching and professional portfolio development. Prereq: Con reg in 398 or 498.

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/ 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. 1-16 cr, pass/fail. 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 400.

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.
752-Violin; 756-Clarinet;
758-Trumpet; 759-Horn; 760-Low Brass;
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 791. Piano Pedagogy. 3 cr. Effective skills in private and class piano; discuss and perform piano literature; observe class and private instruction. Prereq: Complete piano level 200.

MUED 792. Voice Pedagogy. 3 cr. Vocal teaching methods. Prereq: Cons instr.

MUED 793. Woodwind Pedagogy. 3 cr. Methods of teaching woodwind instruments and specific problems of each instrument. Prereq: Complete 300 level study or equiv.

MUED 794. Brass Pedagogy. 3 cr. Methods of teaching brass instruments and specific problems of each instrument. Prereq: Complete 300 level study or equiv.

MUED 795. Percussion Pedagogy. 3 cr. Percussion literature and reference material including method books, textbooks, and publisher sources. Prereq: Complete 300 level of study or equiv..

MUED 796. String Pedagogy. 3 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: Complete 300 level study or equiv..

MUED 797. Performance, Methods, and Materials. 2 cr.

MUED 799. Thesis. 2-6 cr.

Music Education Latent Courses: Not offered recently. See full course description in indicated (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)
751 Pedagogical Technique-Voice, 2 cr, (07-09)
753 Pedagogical Technique-Low Strings, 2 cr, (01-03)
754 Pedagogical Technique-Flute, 2 cr, (01-03)
755 Pedagogical Technique-Double Reeds, 2 cr, (07-09)
757 Pedagogical Technique-Brass, 2 cr, (01-03)
761 Pedagogical Technique-Percussion, 2 cr, (07-09)
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)
790 Seminar in Music Education V, 3 cr, (07-09)
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 464, 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)

Christine L. Thomas, Dean
John Houghton, 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 fisheries and water resources, forestry, paper science and engineering, resource management, soil and waste resources, and wildlife ecology. 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, fisheries, water resources, watershed management, captive wildlife, wildlife, wildlife ecology research and management, wildlife ecology information and 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. In additions:

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), and 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 advisor in that discipline before you graduate. Therefore, it is imperative that you work with an advisor 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 Systems 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 advisor. Certain 300-400 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, paper science, and all options of fisheries and water resources.
 - b. 2.25 GPA for all options of wildlife ecology, 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.

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 notify you in writing with any pertinent information about the exam including the required minimum passing score before you take the exam. 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.

FISHERIES & WATER RESOURCES

Stanley W. Szczytko, Coordinator
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E-mail: ssczytk@uwsp.edu OR cnr@uwsp.edu
Web: www.uwsp.edu/cnr/water.htm

Faculty: R Bell, M Bozek, K Clancy, R Crunkilton, W DeVita, W Halverson, M Hansen, C Hartleb, G Kraft, W LeGrande, K Masarik, P McGinley, D Mechenich, D Ozsvath, B Sloss, E Stern, S Szczytko, N Turyk.

Academic Standards

To graduate with a major or minor in fisheries and water resources you must have 2.00 minimum cumulative grade point average.

Fisheries and Water Resources

The fisheries and water resources major prepares you for a career or graduate study in fishery science or management, aquatic biology, hydrology, hydrogeology (groundwater), laboratory analysis of water and environmental samples, aquatic toxicology, and the assessment and management of water resources. You must select one of three options below: fisheries, 132 credits; watershed management, 128 credits; or water resources, 121 credits.

Fisheries Option of the Fisheries and Water Resources Major

The fisheries option prepares you for employment in consulting firms or state, tribal or federal resource management agencies where you would be involved in manipulating fishery resources through regulating human use, managing aquatic habitat, and stocking. With a BS degree in fisheries you will likely begin your

professional employment as a limited term employee. An MS degree will greatly increase employment potential and job responsibilities in fisheries. If you complete the requirements for the fisheries option with a grade of C or better in all required courses, you will have completed the minimum course requirements for certification by the American Fisheries Society as a certified fisheries professional. For more information about certification see

www.fisheries.org/html/Certification/shtml.

Fisheries Requirements

Consists of 132 credits.

1. Fisheries and aquatic sciences, 27 credits: NRES 250; Biology 374, 375; Water 353, 354, 387, 481, 483, 484.
2. Biological sciences, 20 credits: NRES 151, Biology 130, 160, 210, 281.
3. Physical sciences, 24 credits: NRES 251; Chemistry 105, 106, 221; Physics 201, 202.
4. Mathematics and statistics, 8 credits: Math 111 or 120, and 355 or 356.
5. Human dimensions, 11 credits: NRES 150, 372, 490; Philosophy 380.
6. Water resources electives, 12 credits: Any water resources courses not already specified above.
7. Professional field experience, 7-8 credits: Option A or B (below).

Watershed Management Option of the Fisheries and Water Resources Major

The watershed management option prepares you for a career or graduate study in land conservation, water resources management, and hydrology. Watershed management graduates frequently gain employment with environmental consulting firms and state, federal, tribal, and local resource management agencies and are involved in land planning, resource protection, and civil works.

Watershed Management Requirements

Consists of 128 credits.

1. Watershed mgmt, 20-21 credits: Water 382, 389, 480 or 487, 481, 493; Geography 279; NRES 377.
2. Biological Sciences, 12 credits: Biology 130 or 160; NRES 151, 250.
3. Chemical sciences, 13-14 credits: Chemistry 105, 106, and 221 or 325.
4. Physical Sciences, 15 credits: Geology 104; NRES 251; Physics 201, 202.
5. Math and Statistics, 12 credits: Math 120, 121, 355.
6. Human dimensions, 11 credits: NRES 150, 372, 490; Philosophy 380.
7. Water resources electives, 9 credits: Select from Water 383, 420, 482, 480 or 487 (whichever is not taken above).
8. Electives, 6 credits: Select from NRES 373; Soil 461 or 465; Geology 352.
9. Professional field experience, 7-8 credits: Option A or B (below).

Water Resources Option of the Fisheries and Water Resources Major

In the water resources option you develop a flexible program of courses with your advisor to prepare you for one or more career paths. You can emphasize the physical, chemical or biological aspects of water resource management or combinations thereof. The breadth of electives allows you to complete a minor in such areas as chemistry, soil science, geographic information systems and spatial analysis, or land use planning that will enhance and focus your career opportunities. Graduates are normally employed by environmental consulting firms, or by county, state, tribal or federal resource management agencies that are involved in protecting and managing the quality and quantity of water resources.

Water Resources Requirements

Consists of 121 credits.

1. Water resources, 10 credits: Water 389, 480, 481.
2. Natural resources, 22 credits: NRES 150, 151, 250, 251, 372, 490; Philosophy 380.
3. Chemical sciences, 10 credits: Chemistry 105 and 106, or 115 and 116.
4. Biological sciences, 5 cr: Biology 101 or 130 or 160.
5. Physical sciences, 6 cr: Geography 279; Geology 104.
6. Mathematics and statistics, 8 credits: Math 111 or 120, and 355.
7. Science electives, 15 credits: Select from Math 121, Physics 101, 201, 202; any biology, chemistry, geology or soils courses that are not taken to satisfy other requirements.
8. Water electives, 15 credits: Select from any water courses numbered 300 or above that are not taken to satisfy other requirements.
9. Professional field experience, 7-8 credits: Option A or B (below).

Professional Field Experience

Choose one:

- A. Summer camp, 7 credits: Forestry 319, 320; NRES 405; Soils 359, 360; Wildlife 340; Water 380.
- B. European summer program, 8 credits: NRES 475.

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 Mgmt 380.

WATR 480/680. Water Chemistry and Analysis. 4 cr. Measure and interpret chemical characteristics of water resources in human-dominated landscapes. 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. (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 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 for organic and inorganic compounds; laboratory quality control, sample preparation, data handling; gas and liquid chromatography, mass spectrometry, atomic absorption and inductively coupled plasma spectroscopy, autoanalyzer use. 1 hr lec, 4 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 using GIS of the effect of land use on water quality, yield, and timing; land management practices as water resource mgmt tools. Prereq/coreq: 389 or written cons instr. (Geog 279, 476 or 479 suggested). (II)

WATR 494/694. Environmental Toxicology and Risk Assessment. 3 cr. Introduction to effects of environmental contaminants on aquatic and terrestrial organisms including humans. Impacts of contaminants on fisheries and rationale for health advisories. Survey of contemporary literature. 2 hrs lec, 2 hrs lab/disc per wk. (II odd yrs)

WATR 496/696. Environmental Toxicology. 2 cr. Concepts and laboratory assays for measuring biological effects of contaminants in living organisms including examples of typical data and their interpretation. (II even yrs)

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/biology maj 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/secondary teachers only.

WATR 755. Multivariate Statistics in Fish and Wildlife Research. 3 cr. Quantitative application and interpretation of multivariate 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 784. Advanced Studies in Fish Management. 3 cr. Advanced techniques of fishery data analysis, with practical uses of mathematical and statistical methods in fishery science and management.

Water Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

475/675 Groundwater Management, 1 cr, (05-07)

479 Contaminant Hydrogeology, 3 cr, (05-07)

485/685 Ecology Freshwtr Benthic Indicator Organisms, 3 cr, (05-07)

486/686 Fish Culture, 2 cr, (01-03)

495/695 Apply Computer Modeling to Hydrogeology, 3 cr, (05-07)

780 Advanced Water Analysis, 3 cr, (03-05)

785 Issues in Water Law, 3 cr, (01-03)

789 Advanced Hydrology, 3 cr, (03-05)

FORESTRY

Jan Harms, Coordinator

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Phone: 715-346-2104

E-mail: jharms@uwsp.edu OR CNR@uwsp.edu

Web: www.uwsp.edu/cnr/forestry.htm

Faculty: J Cook, D Crunkilton, M Demchik, P Doruska, J DuPlissis, R Geesey, J Harms, R Hauer, T Hayes, J Houghton, S Kissinger, H Petrillo, M Morshidi Phillips, V Phillips, R Rogers, L Werner.

Accreditation: The educational programs in forest administration and utilization, forest management, forest recreation, and urban forestry leading to the bachelor of science professional degree in forestry are accredited by the Society of American Foresters (SAF). The Council of Higher Education Accreditation recognizes SAF as the specialized accrediting body for forestry education in the United States.

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 total 134 credits.
2. One summer of advisor approved forestry internship or employment.
3. Required courses, 61 credits:
 - a. Forestry 232, 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** (46-47 credits)
 - 1) Natural Science: Chemistry 101 or 105 and one course from Biology 160; Chemistry 106; Physics 101, 201, 203, 204.
 - 2) Math 111, 112; Forestry 311, 312, 313, 329, 370, 433; 4 credits of 324, 424, 426; NRES 377; Biology 350 with Biol 130 and Chem 101 or 105 accepted as prereqs; and one course from Comm 240, 280, English 248, 254, 351, 354, NRES 320.
 - 3) Electives: select 8 credits from Forestry 324*, 325, 330, 331, 333, 335, 350, 381 (1-3 cr), 385, 392, 394, 424*, 426*, 428, 431, 434, 435, 440, 480, 493; Geography 476; NRES 320*, 323, 357, 371, 388, 459, 473, 474; Paper Science 101; Soils 361; Water 389,

493; Wildlife 451. (*If not taken to meet 4a2 above.)

- b. **Forest Administration and Utilization** (51-53 credits)
- 1) Natural Science: Chemistry 101 or 105 and one course from Biology 160; Chemistry 106; Physics 101, 201, 203, 204.
 - 2) Math 109 or 111, and 112.
 - 3) Accounting 210; Business 320, 340; and one from Communication 240, 280, English 248, 254, 351, 354, NRES 320.
 - 4) (a) Forestry 311, 312, 313, 329, 370;
(b) Two courses from Forestry 428, 429, 433;
(c) NRES 377.
 - 5) Electives: At least 8 advisor 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** (50-51 credits)
- 1) Natural Science: Chemistry 101 or 105 and one course from Biology 160; Chemistry 106; Physics 101, 201, 203, 204.
 - 2) Math 111, 112; Forestry 331, 333, 335, 342, 385, 424, 426, 431; English 351 or NRES 320; Biology 350 with Biol 130 and Chem 101 or 105 accepted as prereqs.
 - 3) Electives: 11 credits from Business 320, 324, 330, 340, 343; Forestry 324, 330, 381 (1-3 cr), 395, 435, 480; Biology 346; Geography 476; NRES 335, 357, 377, 388, 389, 457, 459, 474, 495; Political Sci 250, 304, 358; Sociology 357; Soils 361.
- d. **Forest Recreation** (49-54 credits)
- 1) Natural Science: Chemistry 101 or 105 and one course from Biology 160; Chemistry 106; Physics 101, 201, 203, 204.
 - 2) Math 111, 112; Forestry 324, 330, 331 and 313 or 333, 334, 335, 385, 394, 426, 480; NRES 320; 2-3 credits from NRES 367, 368; 3 credits from Comm 240, 280, English 248, 254, 351, 354, NRES 369.
 - 3) Electives: 5-6 credits from Forestry 342, 381 (1-3 cr), 424, 430, 431, 433; Geography 476; NRES 335, 357, 377, 388, 389, 393, 440, 473, 474, or any 300-400 level wildlife course beyond Wildlife 320, excluding 340.
- e. **Forest Ecosystem Restoration and Management** (50-51 credits) NOTE: Enrollment cap is in effect for this option. Consult the forestry coordinator for advising information and application criteria. If you pursue this option, we highly recommend that you plan to continue your education with an advanced degree.
- 1) Natural Science: Select at least 4 credits from the following: Chemistry 101, 105, 106; Physics 101, 201, 203, 204.
 - 2) Math 111, 112, Forestry 324; Soils 361; NRES 320, 457, 458 (or Wildlife 458), 459; Water 481 or Wildlife 360.
 - 3) Biology 160, 342, 345, 377;
 - 4) 3 credits from NRES 377; Geog 476, 479.
 - 5) At least 3 credits from Biology 308, 338, 347, 355, 374, 378; Forestry 426, 440; Water 387, 481*, 482; NRES 462; Wildlife 360*, 451. (*If not taken to meet 4e2 above.)

Forestry Minor

Consists of 26 credits

1. Forestry 232, 322, 332, 425, 432, 449; NRES 250.
2. Select remaining credits from Forestry 311, 312, 313, 319, 320, 321, 324, 325, 327, 335, 350, 394, 395, 424, 426, 433, 493; NRES 323, 371, 372; Soils 361; Water 493.

Forest Recreation Minor

Consists of at least 27 credits:

1. Forestry 330, 331, 334, 335, 381 (3 cr), 394, 480; 2-5 credits from NRES 367, 368, 369, Comm 306, 307.
2. Five credits from the following: Forestry 324, 333, 385; NRES 320, 393, 474, 478; 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 311/511. Amenity Forestry: Forest Recreation. 1 cr. Recreation as a major land use. Overview of meaning and importance of recreation and issues concerning the demand for recreation opportunities. Prereq: Summer camp or cons instr. (II)

FOR 312/512. Amenity Forestry: Landscape Aesthetics. 1 cr. Principles and application of landscape aesthetics to management of forests for nontimber values. Prereq: Summer camp or cons instr. (II)

FOR 313/513. Amenity Forestry: Introduction to Urban Forestry. 1 cr. Examine historical uses of trees in urban environment; benefits derived from urban forests; need for and components of sound urban forestry management planning. Prereq: Summer camp or cons instr. (II)

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. Apply forest measurement techniques and ecological relationships for integrated resource management. 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; NRES 250 (or con reg), or written cons instr. (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)

140 Natural Resources, College of (CNR)

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, II)

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. 3 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. 2 cr. Identification, cultural use, and characteristics of deciduous and evergreen trees, shrubs, and vines for urban, suburban and rural communities and landscapes. Prereq: 232. (I)

FOR 370. Forest Products I: Wood as Industrial Raw Material. 2-3 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. (I, II)

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. (II)

FOR 392/592(NW). Native American Forestry. 3 cr. Introduction to Native American forest management from cultural, ecological, historical and socioeconomic perspectives. May not earn credit in both Forestry 392/592 and History 361. GDR:EL (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. (I)

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. 2-3 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 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 435/635. Nursery Operations and Management. 3 cr. Principles and practice of nursery management and operations of nursery stock for rural and urban forests. Includes production systems, nursery stock standards, plant propagation, stock storage and delivery, nursery design, cultural requirements and growth strategies, nursery IPM, regulations. Prereq: 232. (I)

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. (I, II)

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 493/693. Forestry Field Seminar. 1-3 cr. Study current forest management practices, techniques and issues on this regional tour, addressing environmental, economic and social components in forested regions of the world. May be repeated under various subtitles for regions. 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 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. See full course description in indicated (xx-xx) catalog.

325/525 Range Management, 3 cr, (07-09)

328/528 Wood Technology, 3 cr, (01-03)

350/550 Contemporary Issues in Forestry, 1-3 cr, (03-05)

430 Landscape Construction, 3 cr, (07-09)

440/640 Forest Tree Improvement, 3 cr, (07-09)

724 Advanced Forestry Protection, 3 cr, (03-05)

725 Advanced Forest Mgt/Economics, 3 cr, (03-05)

730 Tree Physiology, 4 cr, (03-05)

HUMAN DIMENSIONS OF NATURAL RESOURCE MANAGEMENT

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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: general resource management, environmental education and interpretation, land use planning, or youth programming and camp management, resource management policy, resource management law enforcement.
 - 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, forest recreation, international resource management, soil science, water resources, wildlife.
 - b. **Environmental Education and Interpretation**, 58-68 credits: Biology 101, or 130 and 160; 342, 377; Chemistry 101 or 105 & 106; English 363 or 392; NRES 301, 302, 368, 369(5 cr), 482(12 cr), 478; Philosophy 380; & 9 credits from Astronomy 311; Biology 308, 309, 355, 357 372, 374, 376, 378, 379, 388; NRES 483; 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; NRES 320, 372, 388 (or GEOG 388), 389 (or GEOG 389), 484, 488, 489, 495; Soils 365.
 - 2) Three credits from Geography 496; Poli Sci 212, 242, 250 (or NRES 473), 304 or 341; Sociology 300, 356, 357, 358.
 - 3) Three credits from Econ 311, 374; Geography 495 or Math 355, Poli Sci 397.
 - 4) Electives: 6 credits from Forestry 232, 311, 312, 313, 330, 333, 385; Geography 276, 279, 379, 382; NRES 357, 377; 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 Devel 265; NRES 281, 301, 302, 376, 382, 383, 320 or 478, 367 or 368; 3 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 educ, 3 credits from HLED 104, 140, 390, PEX 250, 445.
 - (e) First Aid/CPR, 2 credits from PED 252, 253, 254.
- e. **Resource Management Policy**, 46-56 credits:
 - 1) Science core, 10-20 credits required: Biology 101, or 130 and 160; Chemistry 101, or 105 and 106.
 - 2) Analysis and communication, 12 credits: 6 credits required from NRES 320 or 478; Philosophy 121, 315 or 380. Take remaining credits from Geography 279, 476; Math 355; NRES 389; Poli Sci 397.
 - 3) Policy formulation, implementation and evaluation: 24 credits: 18 credits required from NRES 372, 392, 473; Poli Sci 212, 304 or 305; Sociology 230. Take remaining credits from Economics 210, 311, 315, 342, 362, 365; Geography 110, 113, 340, 344; NRES 220, 324, 357, 381 (1-3 cr), 484; Poli Sci 242, 250, 304, 356, 358; Soils 461; Waste 476, 489; Water 220, 382.
- f. **Resource Management Law Enforcement**, 56 credits:
 - 1) Science and natural environment core, 26 credits. Required: Biology 130, 160; Chemistry 105 and 106. Take remaining 6 credits from Forestry 232, 335 or 394; Soils 366; Water 382, 383; Wildlife 360, 372, 450, 458.
 - 2) Analysis and communication, 6 credits. NRES 320 required. Take remaining credits from NRES 368, 478; Philosophy 121, 315, 380.
 - 3) Policy formulation and implementation, 6 credits. NRES 473 required. Take remaining credits from NRES 372; Poli Sci 356, 358; Economics 311.
 - 4) Law enforcement, 18 credits required. NRES 392, 393; Poli Sci 212 or Sociology 230.
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.

142 Natural Resources, College of (CNR)

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 101; 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 CNR assoc dean for academic affairs. It consists of 26 credits:

1. Required core, 11 credits: NRES 320, 368, 369 (5 cr).
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; Instruc 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 6–12/13. Consists of at least 24 credits from:

1. Environmental ed core: NRES 370, 376, and a minimum of 3 credits from one of NRES 281, 302, 368, 382, 478 or other courses approved by advisor.
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 advisor.

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. Credentialed enforcement track, 27 credits:
 - a. Required: NRES 320, 392, 473; Sociology 230 or Political Science 212.
 - b. NRES 393, 12 credits: This is the 520-hour Wisconsin Law Enforcement Training and Standards Board certified recruit training program offered by a state technical college. Take 392 as prerequisite.
 - c. Three credits from Forestry 335, 394; Water 382; Wildlife 360, 372, 458.
2. Non-credentialed (regulatory and law) track, 27 credits:
 - a. Required: NRES 320, 392, 473; Sociology 230 or Political Science 212; Political Science 304 or 305; Philosophy 315 or 380.
 - b. Six credits from Geology 330, Soils 461, Waste 476, 488, Water 382.

Environmental Studies Minor

Administered by the College of Letters and Science. See description earlier in this catalog.

International Resource Mgmt 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 each area:
 - (1) Sociology 270, 310, 322, 343, 355, 357;
 - (2) Econ 342 or 362 or 365;
 - (3) Geography 113 or 120.
2. Three credits from Anthropology 335; International Studies 101; Comm 341, 380; Econ 362, 367; Geography 300, 301, 327, 328, 340, 368; History 220; NRES 301, 478; Philosophy 380; Psych 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 3 credits from NRES 474, 484, 495.
2. NRES 388, 389, Soils 365 and Geography 476 and at least one 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 300 and above. For teacher certification also take NRES 478.

Youth Programming and Camp Management Minor (YPCM)

Consists of 25-28 credits toward 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 advisor 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 advisor for information about related summer work experience or internship experience during your junior and senior years.

NATURAL RESOURCES COURSES

The **resource management** major is described under the heading "human dimensions of natural resource management" 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 application of those principles to the 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 220(NW). Global Climate Change and Water Resources, 10th Century to Present. 3 cr. Effects of global warming on world water resources. Climate change in the past millennium. Case studies including Africa, India, North and South America, China and Japan. How availability of water has shaped culture, agriculture, and diet. How past and present stressors to available water have been dealt with in different regions. May not earn credit in both NRES 220 and Water 220. (I, II) GDR:EL

NRES 250. Introduction to Fisheries, Forestry and Wildlife Resources. 4 cr. Integrated introduction to principles/practices of fisheries, forestry and wildlife management, including production of goods and services while maintaining ecosystem integrity and functions; 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: NRES 150, 151, Math 100, or cons instr. (I, II)

NRES 281. Camp Leadership. 3 cr. Introduction to camp leadership and 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/implementing environmental ed programs; observe instruction; Prereq: Jr st, CNR/biology major or written cons instr. (I)

NRES 302/502. Foundations of Environmental Education II. 3 cr. Apply environmental ed theory, philosophy, goals. Survey and use of environmental ed methods and resources. Develop, apply, evaluate instructional plans and materials in formal/informal settings. In field professional development & career opportunities. 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 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 world regions. Prereq: 370 for non-CNR majors. (II)

NRES 324. Invasive and Exotic Species. 3 cr. Biotic and abiotic factors influencing invasions of native and exotic species including social, political and economic concerns. May not earn credit in both NRES 324 and Water 324. GDR:EL (II)

NRES 335/535. Turf Management. 2 cr. Turf grass selection, establishment, and management for parks, lawns and other recreational land uses. 1 hr lec, 2 hrs lab. Prereq: Summer Camp &/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 340/540. Basic Concepts of Sustainability. 1-3 cr. Examine environmental, economic and societal elements of sustainability to build basic knowledge.

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 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 effects of economics, education, politics, 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; write and produce 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. (II)

NRES 370/570. Introduction to Environmental Study and Education. 3 cr. Natural, social, economic factors influencing environmental quality; ecological relationships/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 Wis. teacher certification in environmental ed. Not open to CNR majors/minors. Prereq: Admis to School of Educ or written cons instr. (I, II) GDR:EL

NRES 372/572. Resource Economics. 3 cr. Fundamental economic concepts and how they apply to resource use; traditional and revised land use theories; problems of land policy management. GDR:SS2 (I, II)

144 Natural Resources, College of (CNR)

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 369 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. Remote Sensing I. 3 cr. Characteristics of aerial photographs and digital imagery. Use remote sensing materials to conduct resource inventories, and land use evaluation, and landform analysis. 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 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 set 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; also NRES 388 and 389 if land use planning major. (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 cr. Field techniques used to manage and evaluate forestry, soils, water, and wildlife resources. Prereq: NRES 150, 151, 250, 251. (SS)

NRES 388/588. Introduction to Urban and Regional Planning. 3 cr. Historical evolution of urban/regional planning. Theories, ideologies, philosophies, and functional areas of planning. Also primary plan implementation tools. May not earn credit in both NRES 388/GEOG 388.

NRES 389/589. Urban and Regional Planning Analysis. 3 cr. Research methods for urban and regional planning. Design and implementation of citizen surveys. May not earn credit in both NRES 389 and GEOG 389. Prereq: GEOG 373, 388 or NRES 388, Math 355 or Forestry 321 or Sociology 351, or cons instr.

NRES 390/590. Nature Interpretation in Wisconsin. 1-3 cr. How to interpret major ecological communities of Wisconsin, their relationship to landforms and climate, key plants and animals, their interrelationship and the effect of human activities. Subtitle will designate emphasis. May repeat for 3 credits max with different subtitles. (I, II)

NRES 392. Environmental Law Enforcement Theory and Principles (former 440). 3 cr. Overview of environmental law enforcement activities emphasizing theoretical basis for current enforcement practices. Prereq: Poli Sci 212 or Soc 230, CNR major or written cons instr. (II)

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 cons 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/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. 1 cr, view video segments and complete self-instructional guide. 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 406/606(NW). Natural Resources, Culture and Archaeology of the Mayan World. 3 cr. Survey ecosystems and environmental and natural resource programs and issues in a cultural context in Mexico, Belize or Guatemala. GDR: EL

NRES 407/607. Costa Rica Tropical Ecology. 3 cr. Survey ecosystems and environmental and natural resource programs and issues in Costa Rica. GDR: EL

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 415/615. Investigation and Evaluation of Environmental Education Curriculum Resources. 1 cr. Investigate, evaluate, and apply instructional resources for K-12 environmental ed. Includes 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. Making Environmental Education Relevant to Culturally Diverse Audiences. 1-3 cr. Basic knowledge and skills to make EE relevant to culturally diverse audiences. Broaden your perspective of EE to encompass interests and issues of concern to culturally diverse audiences, assess barriers to participation among culturally diverse audiences, and appraise the role and significance of building relationships and partnerships with members of an audience you intend to work with in the future.

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. (II, even yrs)

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, landscape, and 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. (I, 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/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; select and implement 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 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. (I, II)

NRES 483/683. Professional Development in Environmental Education/Interpretation. 3 cr. Examine personal, academic and professional abilities, knowledge, skills, experience, interests, and philosophies related to environmental ed/interp. Includes portfolio development and field trips. Prereq: Con reg in 482. (I, II)

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. (I)

NRES 488/688. Land Use Plan Implementation. 3 cr. Legal, social, and natural resource considerations in creation and enforcement of zoning, subdivision, and related land use regulations. Also ordinances to control junk, billboards, nonconforming uses and structures, and adult businesses. Prereq: NRES 388 or GEOG 388. (I, even years)

NRES 489/689. Applied Urban and Regional Planning Analysis. 3 cr. Apply analytical planning techniques to explain contemporary community and natural resource issues. Develop case studies of regions using demographic, land market, natural resource, economic, recreation, and education analyses to propose planning and resource management policies. Prereq: GEOG 389 or NRES 389, and Sociology 351 or Forestry 321 or Math 355 or cons instr. (II, odd years)

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 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 614. Environmental Education Teaching Strategies. 1 cr. Plan and evaluate environmental ed curriculum materials and teaching methods. Prereq: 411/611 and 412/612 or cons instr.

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 to investigate environmental issues. Strategies for issue analysis/resolution. May not take both 705 and 478/678. Prereq: 570 or; 611, 612, 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 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 sites, 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 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 730. Energy Education in the Classroom. 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 KEEP energy education activity guide. OK for infusion across K-12 curric.

NRES 731. Selected Topics in Energy Education. 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. (Repeatable under different subtitles).

NRES 732. Renewable Energy Education in the Classroom. 1 cr. Builds on KEEP program with next step in renewable energy to help teachers enhance understanding of energy. Highlights renewable energy K-12 curriculum. May repeat for 3 cr max with different subtitles.

NRES 733. Energy Education Concepts and Practices. 1-3 cr. Concepts relating to energy definitions, natural laws of energy and energy flows in living/nonliving systems, and their relationships to understanding/evaluating environmental issues. Analyze concepts and synthesize strategies/activities for the classroom. May repeat 3 cr max.

NRES 734. School Building Energy Efficiency Education. 1 cr. Study energy use in Wisconsin schools. K-12 teachers use school building as energy education learning tool. Develop action plans highlighting energy efficiency and conservation opportunities.

NRES 735. Renewable Energy Education. 1 cr. Fundamentals of renewable energy, how to incorporate renewable energy into daily work/home, pros and cons of using renewable energy. Includes case studies and guest speakers.

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 Wisconsin 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. Wisconsin 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/Interpretation. 1 cr. Discuss research methods, relevant literature, and current issues in environmental ed and interpretation. May repeat for 4 cr max. (I, II)

NRES 751. Applied Environmental Education Program Evaluation. 3 cr. Designed for environmental educators and natural resource professionals. Apply skills in designing evaluation tools such as surveys, observation forms, and interview and focus group guides to assist in evaluating education programs.

NRES 761. Personal Leadership Development for Environmental Education. 1 cr. Theoretical and practical background in personal leadership skills and development for implementation of EE beyond the classroom. Prereq: Acceptance in MSNREE Program.

146 Natural Resources, College of (CNR)

NRES 762. Organizational Leadership Development for Environmental Education. 1 cr. Practical leadership skills within context of organizational culture, power, and politics to implement EE beyond the classroom. Prereq: NRES 761

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. Discuss 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. See full course description in indicated (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)
357	Air Resources, 3 cr, (07-09)
371/571	Resource Administration, 2 cr, (07-09)
375/575	Environmental Field Studies, 3 cr, (91-93)
380/580	Energy Education: Concepts and Practices, 1-3 cr (07-09)
393	Environmental Law Enforcement, 1-12 cr, (07-09)
411/611	Principles of Environmental Educ, 1 cr, (03-05)
412/612	Ecological Basis for Environmental Educ, 1 cr, (03-05)
413/613	Citizen Action in Environmental Educ, 1 cr, (03-05)
414	Environmental Education Teaching Strategies, 1 cr, (07-09)
444/644	Integrated Spatial Info Sys for Natl Res Mngt (03-05)
493/693	Environmental Field Seminar, 1-2 cr, (03-05)
707	Computer Use in Environmental Education, 1-2 cr, (07-09)
720	Advanced Topics in Natural Resources and Public Relations, 1-2 cr, (07-09)
760	Grant and Proposal Development, 1-3 cr, (07-09)
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 AND ENGINEERING

The major in paper science and engineering, administered by the College of Natural Resources, is described under the section *Paper Science and Engineering* later in this catalog.

RESOURCE MANAGEMENT

See *Human Dimensions of Natural Resource Management*.

SOIL and WASTE RESOURCES

Steven Levine, Coordinator

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Web: www.uwsp.edu/cnr/soil&waste.htm

Faculty: M Buckley, S Levine, A Razvi, J Sherman.

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

1. Required, 22 credits: NRES 150, 151, 250, 251, 490; Soils 364, 365.
2. Collateral courses, 17 credits: Chemistry 105 and 106 (or 115 and 116); Geology 104; Math 100.
3. Complete ONE option below:
 - a. **Soil and Land Management**
 - 1) Required, 38 credits: Soils 362, 363, 366, 367, 381, 461, 465; NRES 320 or English 254 or 354; NRES 336, 372, 373, 473 or 474 or 478 or 484; Water 389; Wste Mgmt 380 or 488; 4 cr from Soils 350, Water 350, 450-458 or Wildlife 360, or Wste Mgmt 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, 18 credits: Soils 362, 363, 366, 367, 461, 465; NRES 372, and Wste Mgmt 380 or 488.
 - 2) Collateral courses, 43 credits: Biology 130, 160, 351; Chemistry 220, 248; one addl 300-400 level geology or physical geography course or NRES 377; 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; Wste Mgmt 380, 381, 476, 488; Water 383; 6 credits from Soils 350, or Water 350, or Wste Mgmt 350, or Wste Mgmt 487.
- 2) Collateral courses, 22-25 crs: 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, 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 advisor 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 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, 366, 367, 461, 465; Forestry 325, 332; Geography 279, 352, 377 (or NRES 377), 476; Geology 200, 370; NRES 335, 336, 373*, 484; Wste Mgmt 380, 476; Water 383 (or Geology 383), 487 (or Geology 487), 493; Wildlife 451. Other courses need assoc dean approval.

*NRES 373 has satisfied the crop science requirement for a soil conservationist position with the Natural Resources Conservation Service.

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.

Wetland Science Certificate Program

The Certificate in Wetland Science is recognition of completion of a course of study in physical, biological and natural resources sciences that concentrates on the identification, evaluation and management of wetlands. When you complete the certificate requirements, you will have met the academic requirements necessary to apply for certification as a "wetland professional in training" by the Society of Wetland Scientists. The College of Natural Resources administers the program. For more information contact the Student Success Center, Room 180 CNR, and apply by the first semester of your junior year.

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 mgmt. 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 mgmt. 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. 1 cr. Field identification of soil layers and 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 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 366/566. Wetland Soils. 1 cr. Characteristics of hydric soils including chemistry, morphology, genesis and classification; hydrology of wetlands; field observation and application of federal and regional guidelines to identify hydric soils. Prereq: NRES 251. May not earn credit in both WATR 366/566 and SOIL 366/566. (I)

SOIL 367/567. Wetland Delineation. 1 cr. Review procedures required for identifying and delineating wetlands for permit review. Prereq: NRES 251. May not earn credit in both WATR 367/567 and SOIL 367/567. (II)

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 set 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, admis to CNR, cons instr.

SOIL 456. 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, admis to CNR, cons instr.

SOIL 458/658. Design and Construction of Sediment Control Structures. 1 cr. Design and construction of sediment basins, design and installation of sediment control structures such as silt fences, berms, and buffer strips. Prereq: 461 or con reg, admis 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 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 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 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 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. See full course description in indicated (xx-xx) catalog.

260	Introduction to Soil Resources, 4 cr, (97-99)
457/657	Bio-engineering in Stream Bank and Channel Restoration, 1 cr (07-09)
496	Computer Software Application for Soils, 1 cr, (03-05)
656	Erosion Control and Slip Stabilization in Construction Activities, 1 cr (07-09)
760	Advanced Forest Soils, 3 cr, (07-09)
762	Advanced Soil Genesis, Mineralogy, Classif, 3 cr, (03-05)

Courses in Waste Management

WSTE 350/550. Selected Topics in Soil and Waste Management. 1-3 cr. Selected principles, practices, issues in soil/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 mgmt in cooperation with private or public resource agencies. One cr for 2-4 wks (40 hrs/wk) of work. Credits and/or addl requirements set 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. Non-engineering 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.

WSTE 763. Waste Resource Issues. 1 cr. Investigate solid and liquid waste issues such as: composting, recycling, landfills, on-site wastewater treatment systems, industrial and municipal wastewater treatment systems.

WILDLIFE ECOLOGY

Timothy Ginnett, Coordinator
Room 342, Natural Resources Building
Phone: 715-346-4191
E-mail: tginnett@uwsp.edu OR cnr@uwsp.edu
Web: www.uwsp.edu/cnr/wildlife.htm

Faculty: E Anderson, D Caporale, S DuBay, D Ginnett, T Ginnett, I Girard, R Holsman, R Rosenfield, K Russell, E Wild, C Yahnke.

Definition: In the wildlife ecology 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 ecology you must have 2.25 minimum cumulative grade point average.

Wildlife Ecology Major

Consists of 101-115 credits.

1. Wildlife core, 31 credits: NRES 150, 151, 250, 251, 490; Wildlife 311, 350, 353, 451, 458.
2. Collateral courses, 35-36 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 473, 484, Wildlife 450.
 - e. Take 2 or 3 credits from the following: Biology 305; Wildlife 332, 334, 355, 360 (Water 360).
3. Summer Camp, 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: Research and management.**
 - 1) Required, 10 credits: Biology 210, Math 111; Wildlife 354.
 - 2) Three credits from Biology 361 or Water 387; Biology 374, 376 (or 377 or 378 if not taken previously).
 - 3) Chemistry 105; Physics 201 or 202.
 - 4) Three credits from English 248, 250, 254, 348, 351, 354, or 358.
 - 5) Three credits from NRES 301, 320, 368, Communication 280.
 - b. **Wildlife ecology: Information and education.** (NOT for teacher certification.)
 - 1) Required, 13 credits: NRES 301, 320, 368, 4 cr of 369; Wildlife 372.
 - 2) Electives, 13-16 credits: 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 374 and 376 (7 credits) under special circumstances and with prior approval.

Wildlife Minor

Consists of 20-21 credits:

1. NRES 250, Wildlife 353, 354, 451, choice of Wildlife 458 or NRES 458.
2. One course from Biology 377, 378, or Wildlife 372.
3. One course from Wildlife 311, 350, 450; NRES 459.

Captive Wildlife Minor

Consists of 27 credits:

1. Wildlife 321, 322, 355, 458 or NRES 458; Biology 281, 362.
2. One credit from Wildlife 305; Biology 498, 386 (or Water 386) or 388 with captive wildlife topics and prior coord approval.
3. Internship: 3 credits from Wildlife 381 involving captive wildlife with prior approval of internship coord.
4. Six credits from Wildlife 372; NRES 320 or 368.
5. To graduate with a minor in captive wildlife you must have 2.25 minimum cumulative grade point average.

Conservation Biology Minor

Consists of 24-26 credits.

1. Required core, 13 cr: Biology 305; NRES 324 or NRES 457; 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 Political Science 304, 305, NRES 473, 474, 484, 495.
3. Biological support, 5-7 cr:
 - a. Plant taxonomy/ecology: one course from Biology 342, 355, Forestry 332.
 - b. Animal taxonomy: one course from Biology 361, 367, 374, 376, 377, 378, Forestry 426, Water 387, Wildlife 372.
4. To graduate with a minor in conservation biology you must have a 2.25 minimum cumulative grade point average.

Courses in Wildlife

WLDL 305/505. Selected Topics in Wildlife Ecology and Management.

1-3 cr. Selected concepts, practices, principles, issues in wildlife management. May repeat under different subtitles. Prereq: CNR or biology major or written cons instr. (I, II)

WLDL 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)

WLDL 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 capture, transport, and housing of wild animals. Prereq: BIOL 160, CNR or biology major or written cons instr. (I)

WLDL 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)

WLDL 332. Carnivore Ecology. 2 cr. Global survey of the taxonomy, ecology, behavior, management and conservation of carnivores. Prereq: Bio 160; NR 151 or Bio 305.

WLDL 334. Ungulate Ecology. 3 cr. Survey of the world's ungulate fauna with primary emphasis on North America. Examine taxonomy, evolution, nutrition, behavior, population dynamics, and community ecology of hooved mammals. Prereq: Bio 160; NR 151 or Bio 305.

WLDL 340. Field Experience in Wildlife Management Techniques. 1 cr. Investigate ecological relationships and apply selected wildlife management techniques of habitat evaluation, capturing, marking, monitoring, and censusing animals for integrated resource management. Prereq: NRES 250, 2.00 GPA in major; CNR major or written cons instr. (SS)

WLDL 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)

WLDL 353/553. Wildlife and Fish Population Dynamics. 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, population size. May not earn credit in both Wildlife 353 and Water 353. Prereq: NRES 250; Biology 160, 305; Math 111, and 355. (I, II)

WLDL 354/554. Wildlife and Fish Populations Dynamics Methods. 1 cr. Demonstration of methods for modeling and dynamics of fish and wildlife populations, including abundance, survival, growth, and reproduction (recruitment). May not earn credit in both Wildlife 354 and Water 354. Prereq: NRES 250; Biology 160 and 305; Math 111 and 355. (I, II)

WLDL 355/555. Wildlife Diseases. 2 cr. Occurrence, importance, and ecologic impact of infectious, parasitic, and chemical diseases of wildlife. Prereq: Biology 160 or written cons instr. (II)

WLDL 356/556. Wildlife Disease Methods. 1 cr. Methodology used to identify and study wildlife diseases in the field and laboratory. Prereq: Con reg in 355/555 or written cons instr. (II)

WLDL 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)

WLDL 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)

WLDL 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 add requirements set 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)

WLDL 450/650. Human Dimensions of Wildlife. 3 cr. Survey and evaluate research relating to human dimensions of wildlife/fisheries management; review values, satisfactions, and attitudes associated with consumptive and nonconsumptive uses of wildlife and fish. Prereq: CNR major or written cons instr. (II)

WLDL 451/651. Management of Wildlife Habitat. 4 cr. Principles and practices of habitat management for wildlife in North America. Prereq: Summer Camp, English 254, 353, 354, or 358; CNR major or written cons instr. (I, II)

WLDL 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)

WLDL 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)

WLDL 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)

WLDL 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)

WLDL 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)

WLDL 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.

WLDL 752. Advanced Studies in Wildlife. 1-3 cr. Survey literature concerned with ecology and management of wildlife. (On demand)

WLDL 754. Behavioral Ecology. 3 cr. Discussion of current theories of animal behavior relative to population dynamics, adaptation, and evolution of species. Prereq: 353/553 and Biology 305 or cons instr.

WLDL 758. Animal Ecology and Conservation Biology. 3 cr. Advanced topics in animal communities including species diversity, rarity, meta-populations, 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.

WLDL 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 Course: Not offered recently. See full course description in indicated (xx-xx) catalog.

320 Wildlife and Society: Contemp Issues, 1-3 cr, (95-97)

150 Natural Science

Natural Science (College of Letters and Science)

Pat Zellmer, Coordinator
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The major in natural science may be applied toward a degree in the College of Letters and Science or 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. 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

NOTE: See individual departments (astronomy, biology, chemistry, geography, geology, physics) for course combination restrictions.

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 chemistry (24 cr) or physics (25 cr);
 - 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; Geog 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.
4. See individual departments (astronomy, biology, chemistry, geography, geology, physics) for course combination restrictions.

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 Res 370.
3. See individual departments (astronomy, biology, chemistry, geography, geology, physics) for course combination restrictions.

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**.

OCCUPATIONAL THERAPY

See **Health Sciences**.

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 and Engineering

(College of Natural Resources)

Gerry Ring, Chair
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 Web: www.uwsp.edu/papersci

Faculty: K. Biasca, D. Guay, K. Klaas, G Ring.

Paper Science and Engineering Major

Consists of major, collateral requirements totaling 108 credits (103 if taking Chemistry 117). (See Paper Science and Engineering course listings for descriptions.)

1. Paper science and engineering, 48 credits: 210, 215, 314, 320, 326, 350, 355, 365, 385, 430, 440, 460, 475, 484, 486.
2. Mill internship: 3 credits: Paper Sci 300.
3. Collateral courses, 57 credits (52 if taking Chemistry 117): Chemistry 117 (or 105 and 106), 248, 325, 326, and 335 (these courses satisfy the requirements for a chemistry minor); Econ 210; Math 120, 121 222, 320; Physics 150, 250; Waste 489.

Academic Standards

1. To continue as a major in paper science you must have a cumulative grade point average of 2.00 or higher at the beginning of your junior year, regardless of any declaration of academic bankruptcy.
2. The 2.00 GPA is a prerequisite for any paper science course numbered 300 and above.
3. If you do not meet these standards, you may petition the chair of the department for consideration.

Paper Science Certificate Program

This program of three certificates was designed to meet the needs of paper industry technicians and provide recognition for completing academic courses that prepare you for possible admission to the paper science bachelor's degree program. Also, if you complete 31 credits of general degree requirement (GDR) courses in addition to the mathematics, chemistry, computer information systems, physics, and paper science courses in the certificate program, you may be eligible for a UW associate degree. Contact the Paper Science Department or the UWSP Continuing Education Office for more information.

Courses in Paper Science

PAPR 103. Paper, Society and the Environment. 3 cr. Study lifecycle of paper; raw materials; manufacturing; economic impact on society, recycling and sustainability; alternative disposal methods; impact on environment; policy and politics of pulp and paper industry. GDR:EL

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 117 or 105, 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: 210; Chem 117 (or 106); Math 120; 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: 215, Cons chair.

PAPR 314. Engineering Statistical Design and Analysis. 3 cr. Statistical methods for design, analysis and improvement of engineering experimentation and process operation: experimental design, regression analysis, modeling, analysis of variance, and six-sigma techniques. Prereq: 320, 350 and 385.

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 Pulp 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 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 335.

PAPR 385. 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 or cons instr.

PAPR 390/590. Special Topics in Paper Science. 1-3 cr. Study of concepts, problems, and issues related to Paper Science and Engineering. Subtitle will designate topic and credits. Repeatable under different subtitles.

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 335; or cons instr.

PAPR 445. Paper Coating and Converting. 3 cr. Pigment coating materials/processes; converting operations including laminating, corrugating, extrusion and hot melt coating; functional coatings; presentations by staff/guest lecturers. Prereq: Sr st in paper sci or cons instr.

PAPR 460. 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/paper processes; field trips. 3 hrs lec, 3 hrs lab/disc per wk. Prereq: 215 & Math 320.

152 Peace Studies

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 484. Engineering Design I. 2 cr. Engineering economics; interest and economic equivalence; methods of comparing project and investment alternatives. Ethical and professional issues in engineering. Basic principles of process design. Prereq: 355.

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: 484.

Paper Science Latent Course: Not offered recently. See full course description in indicated (xx-xx) catalog.

101 Intro to Pulp and Paper Processes, 3 cr, (03-05)

490 Seminar I, 1 cr, (05-07)

495 Seminar II, 1 cr, (05-07)

Peace Studies (College of Letters and Science)

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Peace Studies Minor

Consists of 18 credits.

- Peace Studies 200.
- After you complete Peace Studies 200, take 12 credits from one area below. Consult with the coordinator to determine your area. No more than 6 credits from one department or discipline may apply. You may take 3 credits of 300 level independent study or special topics courses with coordinator consent. Courses with an asterisk must have coordinator's approval of topic.
 - Conflict Studies:** Communication 280, 389*, 390*; Health Promotion/Wellness 207, 248, 490*; History 318, 325, 329, 333, 354, 363, 364, 376, 391*; International Studies 391*; Peace Studies 390, 399; Political Science 383, 385, 386, 387, 388; Religious Studies 302, 450*.
 - Global development:** Economics 362; Food and Nutrition 357, 456; Forestry or History 392; Geography 120, 340, 358; History 204, 214*, 215*, 303*; International Studies 391*; Natural Resources 220; Peace Studies 390, 399; Philosophy 380, 381; Political Science 305, 374, 376, 387; Psychology 320, 322; Sociology 355, 360, 370.
 - Social justice and human rights:** Anthropology 110, 335, 339, 371; Communication 373; Economics 328, 345; English 374, 376; History 203, 288, 289, 290, 292, 301, 364; International Studies 391*; Peace Studies 390, 399; Philosophy 350; Political Science 331, 374, 388, 396, 414; Psychology 240, 320, 322; Religious Studies 321*; Sociology 300; Women's Studies 301, 320.
- Peace Studies 490 or 491.

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. See full course description in indicated (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)

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.

Philosophy (College of Letters and Science)

Dona Warren, Chair
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Web: www.uwsp.edu/philosophy

Faculty:

Philosophy: D Chan, C Diehm, K Fry, J Sage, J Waligore, D Warren, D Williams.

Religious Studies: C Dempsey, A Keefe, S Luft.

Anthropology: S Alemán, S Ganapathy, I Choi.

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.

Anthropology is the study of human cultural, linguistic and biological diversity, both in a contemporary context and in the context of historical and biological evolutionary changes that have resulted in a rich archaeological and ethnographic record of human physical and cultural adaptation and variety.

Mission: The Department of Philosophy, housing the disciplines of philosophy, religious studies, and anthropology, trains students in the skills of critical thinking, written and oral communication, and empathetic engagement with diverse worldviews, cultures, ethical systems and religions. The training we offer equips our students with the skills needed for a wide variety of professional careers and with the ability to adapt to the inevitable changes and challenges they will face after graduation.

Philosophy Major

Consists of a minimum of 27 credits including:

1. Logic: Phil 322
2. History: Phil 325, 326, and 327.
3. Value theory: One course from Phil 302, 303, 305, 307, 315, 336.
4. Metaphysics/Epistemology: One course from Phil 306, 310, 312, 320, 345, 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.
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 Honors Program

The Department of Philosophy offers an honors program for students majoring in philosophy, philosophy with a concentration in environmental ethics, or philosophy with a concentration in religious studies. To apply for admission:

1. Have at least 30 university credits.
2. Have 6 credits in philosophy or religious studies with a GPA of 3.5 or higher.
3. Contact the department chair or department honors advisor.

Requirements for philosophy honors are:

1. Complete all the requirements for the major with a GPA of at least 3.5 for courses in the major.
2. Complete a minimum of 6 honors credits in philosophy and/or religious studies courses with a grade of "A Honors."
3. Complete one credit "Independent Study: Honors Project" in Phil 399 or Rel Std 399.

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 advisor.
2. You must have your advisor'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 advisor 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 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 270. Liberalism, Conservatism and Democracy. 3 cr. Examine central ideologies in American politics through classic and contemporary texts. Philosophical foundations and practical applications in critical perspective. May not earn credit in both PHIL 270 and Political Science 270. GDR:HU3

PHIL 301. Philosophy in a Popular Mode. 3 cr. Interpret and discuss selected popular works of philosophic interest. Subtitle will designate topic. 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 304. Ethics in Business and Economics. 3 cr. Apply ethical concepts from selected readings and case studies to business management, economic policy, and the organization of work.

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 315/515. Philosophy of Law. 3 cr. Examine central legal concepts including natural law, and structure of legal reasoning. GDR:HU3

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 330. Existential Philosophy. 3 cr. Phenomenology and the philosophy of human existence from Kierkegaard to Sartre.

PHIL 336. Social and Political Philosophy. 3 cr. Historical and contemporary analyses of fundamental concepts of social and political theory including the state, law and rights, and political obligation. Prereq: So st. GDR:HU3

PHIL 345. Philosophy of Nature. 3 cr. Examine classical and contemporary theories of nature, including intersection of natural philosophy and environmental ethics.

PHIL 350. Feminist Philosophy. 3 cr. Surveys and analyzes the history of and contemporary directions in feminist philosophy.

PHIL 351. Ecofeminism. 3 cr. Examination of the original contributions of feminist thought to environmental philosophy and the ethics of human-nature relations.

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 psycho-therapeutic 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. Philosophy Internship. 1 cr; pass/fail. Intern provides small group writing and reading assistance in selected philosophy courses. Prereq: Cons instr.

PHIL 395/595. Philosophical Problems. 1-3 cr. 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. See full course description in indicated (xx-xx) catalog.

318 Philosophy of Language, 3 cr, (07-09)

338 Chinese Philosophy, 3 cr, (95-97)

340 American Philosophy, 3 cr, (95-97)

PHOTOGRAPHY

See *Art and Design*.

PHYSICAL EDUCATION

See *Health, Exercise Science, and Athletics*.

PHYSICAL ENVIRONMENT

See *Geography*.

PHYSICAL SCIENCE

See *Natural Science*.

PHYSICAL THERAPY

See *Health Sciences*.

Physics

(College of Letters and Science)

Katherine Jore, 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, K Menningen, H Nguyen, R Olson, A Stevenson, D Tamres, C Verzani, 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:

1. Math 120, 121, 213, 222.
2. Chemistry 101; **or** 105 and 106; **or** 115 and 116.
3. Physics 111, 150, 250, 300, 320, 335, 405, 435, 470, and one credit of 388 or 499.
4. Physics 315 or 370.
5. Additional physics courses numbered above 300 not including 390 or 490 to attain 61 credits.

Physics Major with Applied Mechanics Emphasis

Consists of a minimum of 59 credits including:

1. Math 120, 121, 213, 222.
2. Chemistry 105 or 115.
3. Physics 111, 150, 250, 300, 315, 335, 370, 435, 470.
4. Physics 490, 6 cr.
5. Economics 210 or Business 320.

NOTE: Enrollment caps are in effect for those seeking the physics major with applied mechanics emphasis. Please contact the Department of Physics and Astronomy early for entrance requirements and application procedures.

Physics Major with Applied Electronics Emphasis

Consists of a minimum of 60 credits including:

1. Math 120, 121, 213, 222.
2. Chemistry 105 or 115.
3. Physics 111, 150, 250, 300, 315, 320, 370, 470.
4. Physics 383 or 385.
5. Physics 490, 6 cr.
6. Economics 210 or Business 320.

NOTE: Enrollment caps are in effect for those seeking the physics major with applied electronics emphasis. Please contact the Department of Physics and Astronomy early for entrance requirements and application procedures.

Physics Major for Teacher Certification

Consists of a minimum of 49 credits including:

1. Math 120, 121, 213, 222.
2. Physics 111, 150, 250, 300, 320, 335, 470.
3. Physics 315 or 370.
4. Astronomy 205 or 206 or 311 or physics courses numbered above 300 not including 390 or 490 to attain 49 credits.

NOTE: Enrollment caps are in effect for those seeking teacher certification. Contact the Department of Physics and Astronomy 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.

Physics Minor

1. A minimum of 25 credits including Physics 111, 150, 250, 300 and other physics courses numbered above 300 not including 390 and 490. 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 320, 370, 435 will be offered first semester only in 2007-08 and 2009-10.
3. Physics 335, 383, 385 will be offered first semester only in 2008-09 and 2010-11.
4. Physics 315, 470 are offered second semester only.
5. Physics 405 will be offered second semester only in 2007-08.
6. Physics 384 will be offered second semester only in 2008-09.
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

156 Political Science

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, 213, 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 advisor for additional information and suggested electives. For prechemical engineering, see **Chemistry** earlier in this catalog. For paper science, see **Paper Science and Engineering** 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, development; alternatives and prospects for the future. 2 hrs lec, 2 hrs lab per wk. GDR:NS,EL

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 Schrodinger 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 320. Electricity and Magnetism. 4 cr. Introduction to theory of electrostatics, potentials and fields, dielectrics, magnetostatics, magnetic properties of materials, Maxwell's equations. Prereq: 250, Math 222 or cons instr.

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 213 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 specialized areas of physics. May repeat under different subtitles. Prereq: Cons instr.

PHYS 383. Solid State Physics. 3 cr. Conductivity, optical properties of conductors and insulators, polarization, magnetization, free electron theory, band theory, and semiconductors. Prereq: 300, Math 222 or cons instr.

PHYS 384. Astrophysics. 3 cr. Selected topics in areas of astrophysics including planetary physics, stellar physics, galactic and extragalactic astronomy, and cosmology. Prereq: 250 and 300, Math 222 or cons instr.

PHYS 385. Optics. 3 cr. Wave, ray, and photon modes of light; geometrical optics with emphasis on imaging; physical optics including polarization, interference, and diffraction; modern optics including lasers and nonlinear optics. 2 hrs lec, 3 hrs lab per wk. Prereq: 250 and 300, Math 222 or 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 390. Cooperative Internship in Applied Physics. 1-6 cr. Supervised work program in applied physics at a cooperating agency or business. Credit determined by internship director. Credit does NOT apply to major. May be repeated for 6 cr max. Prereq: Physics majors only; cons internship director.

PHYS 405. Quantum Mechanics. 3 cr. In-depth study of Schrodinger'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 213 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. 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 490. Internship in Applied Physics. 1-6 cr. Supervised work program in applied physics at a cooperating agency or business. Credit determined by internship director. Credit applies for applied physics emphasis majors only. May repeat for 6 cr max. Prereq: Physics majors only; cons internship director.

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. See full course description in indicated (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)

John Blakeman, Chair
Room 484, Collins Classroom Center
Phone: 715-346-2688
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Web: www.uwsp.edu/polisci

Faculty: J Blakeman, E Hally, E Miller, D Riley, Jianwei Wang, D Williams, S Yang.

Definition: Political science is the study of the government and politics of the United States, other nations, and international relations.

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 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 101.
3. Also see information about the Professional Education Program and Secondary Education 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

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.
2. 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.
3. 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 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 211. Practical Law. 3 cr. Principles and applications of civil and criminal law as they affect citizens; emphases on consumer, juvenile, family, mental commitment, rules of evidence, probate, torts, and student rights. Prereq: So st.

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: Liberalism, Conservatism, Democracy. 3 cr. Examine central ideologies in American politics through classic and contemporary texts. Theoretical foundations and practical applications in critical perspective. May not earn credit in both POLI 270 and Philosophy 270. GDR:HU3

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.

158 Political Science

POLI 308. Public Opinion. 3 cr. Formation, measurement, and content of American political opinions; relationship to public policies.

POLI 309. Tribal Governments in the United States. 3 cr. Contemporary tribal governments; relationships with federal, state, county, and local governments; intertribal organization and interest groups.

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 314/514. Public Policy Issues. 3 cr. Intensive analysis of selected national public policy issues; their origin, development, proposed solutions, and political impact.

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 320/520. Legislative Process. 3 cr. Analyze forces and procedures that determine formation of law and public policy in the U.S.

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 324. Religion and Politics. 3 cr. Interaction between religion and politics in U.S. Impact of religion on American political culture, voting, political leadership, interest groups, economic and foreign policy, and the law. Includes comparative perspective. Prereq: 101.

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; economic and social civil rights such as access to education, workplace, 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 334. Judicial Process. 3 cr. Nature and role of law and judiciary in American democracy. Focus varies. Prereq: 212 or cons instr.

POLI 335. Law and Society. 3 cr. Investigate social organization of law and how law responds and affects social stratification. Also social scientific approaches to study of law, especially private law such as torts, contracts, property. Prereq: 101, 212.

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 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 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 375(NW). Latin American Politics. 3 cr. Study Latin American political and economic development in the 20th century and examine current dilemmas of democratic consolidation and contemporary

politics in select countries. Overarching themes include political leadership, economic development, populism, socialism, democratization, social movements and civil society, human rights, and the impact of international actors and forces. Prereq: 160 or cons instr.

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 382(NW). Latin America in World Affairs. 3 cr. Analyze Latin America's international relations and its position in the international system. Examine important regional issues with international dimensions: human rights, conflict resolution, democratization, drug trafficking, regional economic integration, and trade relations. Prereq: 160 or cons instr.

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 definitions and uses of terrorism; critical review of theories and cases from wide variety of viewpoints and situations; understanding the role of the symbol of terrorism on 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 388. International Law. 3 cr. Public international law concerning legal relationships between states in the international system. Study basics of international legal system including sources of law, state sovereignty issues, dispute resolution between states and other entities, laws governing international organizations, basic human rights law, laws regulating use of force. Prereq: 160 or 180.

POLI 391. American Political Thought. 3 cr. Analyze major concepts and figures in American political thinking. Emphasis on equality, individual rights, government by consent of the governed and the right of revolution. GDR:HU3

POLI 393/593. Ancient and Medieval Western Political Theory. 3 cr. Examine principal political thinkers of ancient Greek and medieval Roman societies including Thucydides, Socrates, Plato, Aristotle, St. Augustine, St. Thomas Aquinas. Emphasizes enduring nature of central questions of politics. GDR:HU3

POLI 394/594. Modern Western Political Theory. 3 cr. Examine principal thinkers of Renaissance, Enlightenment, and Romantic Europe including Machiavelli, Hobbes, Locke, Rousseau, Marx, Bentham, Mill. Emphasizes problems endemic to modern political societies. GDR:HU3

POLI 395/595. Contemporary Political Theory. 3 cr. Examine and analyze problems in contemporary political theory. Focus will vary. GDR: HU3

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, tools for public policy evaluation; policy analysis as service to decision makers, analysts in 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 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 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. See full course description in indicated (xx-xx) catalog.

201 American Governments for Teachers, 3 cr, (07-09)
 317/517 Political Corruption and Reform, 3 cr, (07-09)
 333 Theories of Constitutional Interpretation, 3 cr, (07-09)
 366 Nationalism and Ethno-Politics, 3 cr, (01-03)
 370 Asian Politics, 3 cr, (03-05)
 372 African Politics, 3 cr, (07-09)
 384/584 Russian Foreign Policy, 3 cr, (01-03)
 498 Honors Thesis, 3 cr, (03-05)
 *** Political Science Honors Program (97-99)
 From 87-89 catalog: 312 Law and Native Amer, 351/551 Org Theory/Practice, 454 Probs of Local Govt/Admin.

POLYMER CHEMISTRY

See *Chemistry*.

PRELAW

See *Political Science*.

PREMEDICINE

See *Biology*.

Prenursing

(College of Professional Studies) in cooperation with UW-Eau Claire

Susan Raab, Coordinator
 Room D-127, Science Building
 Phone: 715-346-3766
 E-mail: sraab@uwsp.edu

Through a cooperative arrangement with UW-Eau Claire, you can earn a bachelor of science degree in nursing from UW-Eau Claire by completing nursing courses at St. Joseph's Hospital in Marshfield.

You spend three to five semesters at UW-Stevens Point, during which time you apply to UW-Eau Claire and the UW-Eau Claire School of Nursing. If accepted, you will complete five semesters of nursing courses at St. Joseph's Hospital, Marshfield. Following the first semester of these nursing courses, you complete an eight-week summer session on the UW-Eau Claire campus.

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.

- General education requirements:**
 Communication 101.
 English 101, 102.
 Foreign Language, 8 credits.
 Math 355.
 Psychology 110, 260.
 Social Sciences, 9-12 credits from at least 2 of 7 disciplines.

Humanities, 9-12 credits from at least 2 of 5 disciplines.

Wellness, 1 credit of aerobic activity (A/A) and 1 credit of health enhancement (HE).

- Major support courses:** Biology 160, 285, 333, 387; Chemistry 105; Clinical Lab Sci 105, 295.
- Nursing courses:** 60 credits are offered through St. Joseph's Hospital via distance education technology and through use of on-site instructors. Four 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 Health Sciences Office.

PREOCCUPATIONAL THERAPY

See *Health Sciences*.

PREPHYSICAL THERAPY

See *Health Sciences*.

PROFESSIONAL EDUCATION PROGRAM

See *Education*.

Psychology

(College of Letters and Science)

Padmanabhan Sudevan, Chair
 Room D-240, Science Building
 Phone: 715-346-2883
 E-mail: Psychology@uwsp.edu
 Web: www.uwsp.edu/psych/psychdept.htm

Faculty: P Conley, D Elsenrath, A Gervasio, H Hekmat, J Lewis, J Magyar-Moe, R Nemeth, D Palmer, M Plonsky, T Rowe, J Rueb, P Sudevan, E Weisgram, C Wendorf.

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 bio-psycho-social influences on health.

Psychology Major

Consists of 37 credits:

- Psych 110, 200, 300 (take 200 before 300).
- At least three courses from each group:
 - Psych 260, 301, 320, 351.
 - Psych 325, 330, 331, 375.
- 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:

- The requirements for the major as defined above.
 - 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, 200, 300, 351.
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 scientific study of behavior and mental processes, and methods used in psychological research. GDR:SS1

PSYC 200. Research Methods in Psychology. 3 cr. Introduction to the research methods used in psychology including experimental and nonexperimental designs. Library research, conducting research, research ethics, and basics of writing in APA style. Prereq: 110.

PSYC 240. Psychology of Gender. 3 cr. Research and theory concerned with men's and women's personalities, roles, capacities; emphasis on socialization and gender 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 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 270. Positive Psychology. 3 cr. Scientific study of optimal human functioning, focusing on theory, research, application of positive emotions, character strengths and virtues, and positive institutions. Prereq: 110.

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 290. Psychoactive Drugs and Behavior. 3 cr. Introduction to psychopharmacology; examine effects of commonly used drugs on the central nervous system, behavior, and motivation for administration, consumption, and drug abuse. Prereq: 110 or cons instr. GDR:WL/HE

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/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: Math 100 or a suitable placement test score; Psyc 110, 200, or cons. instr.

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 311. Research Practicum Seminar. 1 cr. Introduction to practical aspects of conducting research in psychology, including structure and function of journal articles, ethics, Human Subject Review Board proposals, Human Subject Pool access. Exposure to statistical computer packages, library resources, databases. Prereq: 110 and psych major; PSYC 300 or MATH 355 recommended.

PSYC 312. Research Practicum. 1-3 cr. Student involvement in professional research under direction of psychology faculty. Topics vary by faculty interest. May repeat for 9 cr max of 312 and 399 combined. Prereq: 110; 311 or con reg in 311; cons instr; psych major; PSYC 300 or MATH 355 recommended.

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, perception affect interpersonal behavior development. Prereq: 110. GDR:SS1

PSYC 322(MNS). Psychology and Culture. 3 cr. Examine relationship between psychology and culture/ethnicity. Examine psychological processes that contribute to origin and persistence of culture; ways culture/ethnicity affect psychological processes/behavior. Prereq: 110.

PSYC 323. Applied Social Psychology. 3 cr. Theory and application of social psychological principles. Overview 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 psycho-pharmacology. 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 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 classification, causes, origins (etiology), and treatment of 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/adolescent psychopathology. Includes causes, course, and treatment of developmental disorders, learning disorders, internalizing disorders, externalizing behavior problems in childhood. 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, writing reports. 2 hrs lec, 2 hrs lab per wk. Prereq: 300.

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 Research Methods in Psychology. 3 cr. Exposure to and practice with advanced research designs used in psychology. The class will focus on the link between research and design and the statistical tests used for these designs. Students will conduct research projects, collect and analyze data, and write APA style manuscripts. Prereq: 300 and cons. instr.; jr. st.

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/research in counseling and psychotherapy. Develop professional ethics, attitudes, behaviors, communication, and intervention skills essential to therapeutic interview. Videotape/ critique student counseling interviews. 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 465. 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 treatment of behavior disorders. Prereq: 480 and cons instr.

PSYC 490. Seminar: Fields of Psychology. 2 or 3 cr. Discuss 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 full course description in indicated (xx-xx) catalog.

- 198 Reading in the Discipline, 1 cr, (07-09)
- 255 Psychology of Sexual Behavior, 3 cr, (07-09)
- 280 Consciousness, 3 cr, (03-05)
- 285 Parachology, 3 cr, (03-05)
- 293 Computers in Psychology, 3 cr, (03-05)
- 324 Violence Against Women, 3 cr, (05-07)
- 335 Motivation, 3 cr, (07-09)
- 340 Comparative Psychology, 3 cr, (93-95)
- 361/561 Mental Retardation/Develop Disabilities, 3 cr, (93-95)
- 390 Psychology of Religion, 3 cr, (05-07)
- 400 Advanced Research Methods in Psychology, 3 cr, (07-09)
- 460/660 Developmental Psychology Seminar, 3 cr, (93-95)
- 485/685 Behavioral Medicine, 3 cr, (03-05)
- 665 Psychology of Late Adulthood, 3 cr, (07-09)

Public Administration and Policy Analysis

(College of Letters and Science)

John Blakeman, Chair of Political Science
Room 484, Collins Classroom Center
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E-mail: polisci@uwsp.edu OR jblakema@uwsp.edu

Web: www.uwsp.edu/polisci

Public administration and policy analysis is an interdisciplinary program, offering a major and 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 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 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.

162 Religious Studies

3. Functional areas, 6 credits from: Poli Sci 354, 356, 358, 450, Business 380.
4. Tools of analysis, 7 credits: Poli Sci 397 and statistics from 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**.

RECREATION FORESTRY

See **Natural Resources – Forestry**.

Religious Studies (College of Letters and Science)

Dona Warren, Chair of Philosophy Department
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E-mail: philosophy@uwsp.edu

Web: www.uwsp.edu/philosophy

Faculty: C Demsey, A Keefe.

Definition: Religious Studies is the cross-cultural and comparative examination of humanity's diverse religious traditions.

Mission: Religious Studies, housed in the Department of Philosophy, trains students in the skills of critical thinking, written and oral communication, and empathetic engagement with diverse worldviews, cultures, ethical systems and religions. The training we offer equips our students with the skills needed for a wide variety of professional careers and with the ability to adapt to the inevitable changes and challenges they will face after graduation.

Philosophy Major with Concentration in Religious Studies

Consists of a minimum of 39 credits including:

1. **Philosophy core**, 12 credits.
 - a. Logic: Phil 121 or 322.
 - b. Ethics: Phil 101, 302, 305, 336, or 380.
 - c. Any two additional courses in philosophy.
2. **Religious studies concentration**, 27 credits. At least 18 must be 300 level or above.
 - a. Introduction to the Study of Religion: Rel 202.
 - b. Global Religions 1: Asian and Indigenous Traditions: Two courses from Rel 100, 316, 333, 340, 341, Phil 105, or Anth 320.
 - c. Global Religions 2: Western Traditions: Two courses from Rel 101, 302, 303, 304, 305, 311, 325, 330, or 342.
 - d. Senior seminar: Rel 450.
 - e. Electives: A minimum of 9 additional credits from religious studies or collateral courses including: Anth 110, 320, 380; Art 270, 374; Hist 332, 357; Phil 320, 327, 330; Poli 324.

Religious Studies Minor

Consists of a minimum of 18 credits. At least 9 credits must be at the 300 level.

1. Introduction to the Study of Religion: Rel 202.
2. Global Religions 1: Asian and Indigenous Traditions: Two courses from Rel 100, 333, 340, 341, or Philosophy 105.
3. Global Religions 2: Western Traditions: Two courses from Rel 101, 302, 303, 304, 305, 311, 325, 330, or 342.
4. Electives: A minimum of 9 additional credits from religious studies and collateral courses including Anth 110, 320, 380; Art 270, 374; Hist 332, 357; Phil 320, 327, 330; Poli 324.

Academic Standards

1. To ensure that your program is as well planned as possible, you must have a religious studies advisor.
2. You must have your advisor'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 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.

Courses in Religious Studies

REL 100(NW). Religions of Asia. 3 cr. Survey religious traditions of Asia with special attention to Hinduism and Buddhism. GDR:HU3

REL 101. Judaism, Christianity, Islam. 3 cr. Survey religious traditions of Judaism, Christianity and Islam including origins, issues of inter-religious conflict, other comparative themes. 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 107(NW). Religious Autobiographies. 3 cr. Autobiographical accounts of religious persons to introduce stories representing a diverse and multicultural cross section of the world's religions, including Native American religions, Hinduism, Buddhism, Judaism, Latin American Catholicism, African-American Protestantism, and Islam. 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 202. Introduction to the Study of Religion. 3 cr. Introduction to method and theory in the comparative study of religion. GDR: HU3

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. Jewish Scriptures. 3 cr. Study of Jewish scriptures (known to Christians as the Old Testament) in context of historical and cultural background, and issues of interpretation. 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 305(NW). Prophets and Prophecy. 3 cr. A comparative study of ancient and modern prophecy in a variety of cultures, including Israelite, American Indian, African, and East Indian.

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)or(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 325. Oppression and Liberation in Religion. 3 cr. Study of religious oppression expressed as sexism, racism, classism, homophobia, and anti-Semitism and of theological responses to these forms of oppression.

REL 330. Women and Religion. 3 cr. Explore intersections of religion and sexism, including historical development of attitudes toward women and human sexuality in Western religious traditions. GDR:HU3

REL 333(NW). Women and Goddesses in India. 3 cr. Study of women's roles, notions of female power, and goddesses in Hindu tradition. GDR:HU3

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 342. Islam. 3 cr. Study of Islam in variety of historical, cultural, political contexts. Overview of Islamic beliefs and practices including issues of women, politics and war, and mysticism in Islam. GDR:HU3.

REL 392. Religious Studies Internship. 1 cr; pass/fail. Intern provides small group writing and reading assistance in selected religious studies courses. Prereq: Cons instr.

REL 399. Independent Study. 1-3 cr. Individual work in religious studies on special problem, theme, thinker, or period may be arranged with instructor and cons chair. Credit based on scope of project.

REL 450. Senior Seminar. 3 cr. Major issues in academic study of religion and culture. Subtitle will designate topic. May repeat under different subtitles. Prereq: Cons instr.

Religious Studies Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.
300 The Development of Christian Thought, 3 cr, (83-85)
315 Religion in Literature, 3 cr, (95-97)

Research

RSCH 798. Graduate Research. 0 cr. Continuation of graduate research. Prereq: Approval of grad advisor 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*.

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:

- Core courses, 12 credits:**
 - Required: 6-12 credits from Econ 374; Geography 373; NRES 388 or 389; Poli Sci 341; Sociology 300, 356.
 - Electives: 0-6 credits from Forestry 333; Geography 370, 372, 378, 496; NRES 474, 495; Poli Sci 242; Sociology 357, 360.
- Analytic skills, 9 credits:**
 - Computer science: At least 3 credits from CIS 101-102, 115-116, 300.
 - Research methods: 2-3 credits from Econ 310; Geography 276, 279, 476; Poli Sci 203, 497; Sociology 351, 352; Psychology 300; Math 355.
 - Policy analysis/management: 3 credits from Business 380; Poli Sci 250, 397.
- 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.
- Seminar or colloquium on small cities: one credit approved by one of the coordinators.

SOCIAL JUSTICE

See *Peace Studies*.

Social Science

(College of Letters and Science)

Greg Summers, Coordinator
Room 422, Collins Classroom Center
Phone: 715-346-2334

E-mail: history@uwsp.edu OR gsummers@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:

- Complete a minor. Choose from anthropology, economics (social science option), history, political science, psychology, sociology.
- Choose 3 social science fields listed below and earn 6 credits in each. Do not include the field you selected for your minor.
 - Anthropology.
 - Economics.
 - Geography (human), consisting of Geog 120, plus 3 cr in human geography courses 300 or above.
 - History (in addition to history credits necessary to meet the general degree requirements).
 - Political science.
 - Psychology.
 - Sociology.
- Sufficient additional credits to total 45 or more, with at least 15 in courses numbered 300 or above.

164 Sociology

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 (social science option), 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 advisor.
2. **Geography.** Required: Geography 120; Elective: any 3 credit course in human geography numbered 300 or above approved by the social science advisor.
3. **Political science.** Required: Poli Sci 101; Elective: any 3 credit course numbered 300 or above approved by the social science advisor.
4. **Sociology and anthropology.** Required: Sociology 101; Elective: any 3 credit course numbered 300 or above approved by the social science advisor.

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 176 or 288; 256 or 257; and 101 or 102.
2. Political Science 160, 180, or 202.
3. Geography 113 or 120.
4. Sociology 101 or 102.
5. At least 6 credits from Anthropology 101 or 110, Economics 210, 211, Psychology 290, 320.

Human Geography Courses

GEOG 113, 120, 211, 226.

The following geography courses numbered 300 or above shall be considered human geography courses in fulfillment of requirements within the various social science programs at UWSP: social science major (without teacher certification), broad-field social science major for teacher certification, and social science minor.

GEOG 300/500, 301/501, 302/502, 325/525, 327/527, 328/528, 340/540, 344/544, 365/565, 366/566, 369/569, 370, 372, 373/573, 374/574, 378, 391/591, 395/595, 399/599, 496.

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 advisor or the coordinator of the program for more information.

Social Work

The university has been authorized to offer a bachelor's degree (B.S. or B.A.) in Social Work, but the major will not be formally available until we are admitted into candidacy for accreditation by the Council on Social Work Education (CSWE). Please contact the Sociology Department for further information and an update on the status of the Social Work major.

Sociology (College of Letters and Science)

Robert Enright, Chair
Room 488B, Collins Classroom Center
Phone: 715-346-3060 or 2665
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, K Lamb, A Smart, 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: Soc 101, 350, 351, 352.
2. Earn at least 18 credits in courses 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 one area below:

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 Soc 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/Consumer Sciences 390, Psychology 465. (These courses do not count toward 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: Soc 366, 467, Psychology 465 (does not count toward sociology major).
 - b. Deviance/social control: Soc 230, 306, 332, 368.
 - c. Family: Soc 224, 225, 240, 332, 343.
 - d. Environment/population/community: Soc 300, 355, 356, 357, 360.

Gerontology Minor

Consists of 24 credits.

1. Required: Soc 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 Sciences 390, Food and Nutrition 458, Health Promotion/Wellness 305, PEX 319, Political Science 306, Psychology 385, Soc 328, 360, 492-493 (in approp area), 494-495 (in approp area), 497-499 (in approp area).

Native American/Rural Social Work Minor

Consists of 31 credits.

1. Required core courses, 25 credits. Soc 261, 361, 362, 363, 364, 365, 376, 494, 495.
2. Electives, 6 credits from Soc 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; Soc 352.
4. Recommended, one course from Math 355, Psychology 300, Soc 351.

Sociology Minor

Consists of 18 credits.

1. Required: Soc 101 and 350.
2. Electives: 12 credits in sociology courses.

Sociology Minor for Teacher Certification

Consists of 25 credits.

1. Required: Soc 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 advisor and instructor approval.
4. If you are preparing for specialized graduate studies, a professional school, or a specific career, you should request assignment to an advisor knowledgeable in that area to help you select your study program.

Test-Out and Credit-by-Exam Policy

You will receive course credit for Soc 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 Soc 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 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

166 Sociology

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 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/family; contributions of behavioral sciences to understanding 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/SW 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. 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 308/508. Sociology of Medicine. 3 cr. Analysis of the social organization of medicine and health care delivery systems; social processes and conditions of disease and health, such as adaptations to illness, the sick role, and doctor-patient relationship. Prereq: 101 or 102 or cons instr. GDR: SS2.

SOC 310. Social Psychology. 3 cr. How social learning and habits relate to 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 320. Sociology of Gender. 3 cr. Examine the role of gender in everyday life, how gender influences social institutions such as family, government and mass media and the effect of gender inequalities both in American society and cross-culturally. 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). Cultural Perspectives of Family. 3 cr. The family as social institution, its place in different culture/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, Soc 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 metropolis; 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 case-work 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/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 Native American and other culturally diverse families. Prereq: 261, 364.

SOC 366. Sociology of Aging. 3 cr. Sociological theories/methods used to study aging; processes affecting social status of older people and social attitudes toward them; 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 370(NW). Sociology of Globalization. 3 cr. Theories, problems, and processes of social and cultural change in various cultures resulting from internal and external social forces. GDR:SS1

SOC 376. Human Behavior and Social Environment. 3 cr. Theories of interaction between individuals and the social environment that apply to the practice of social work. Prereq: 261.

SOC 390/590. Basic Statistical Methods for Social Sciences. 3 cr. Descriptive and inferential statistics; use statistical software to analyze sociological data. Does not apply to sociology major. Prereq: 101 and Math 100 or equiv or cons instr.

SOC 395/595. 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; analyze techniques for implementing programs/policies relating to older population. Prereq: 9 cr in social sciences or cons instr.

SOC 492. Applied Sociology Practicum. 3-6 cr. Observe and apply sociology practice under 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. 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 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 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. Supplements 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. See full course description in indicated (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)
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)
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-LANGUAGE PATHOLOGY AND AUDIOLOGY

See *Communicative Disorders*.

STRENGTH AND CONDITIONING

See *Health, Exercise Science and Athletics*.

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 the writing minor in *English*.

Theatre and Dance

(College of Fine Arts and Communication)

Gary Olsen, Chair

Room 161, Noel Fine Arts Center

Phone: 715-346-4429

E-mail: theatre@uwsp.edu

Web: www.uwsp.edu/theatre-dance

Faculty: M. Crider, W Dolan, M Estanich, J Hill, T Howard, J Karlen, P Luedtke, T Marchant, R Nelson, G Olsen, S Trovillion Smith, SG Sherwin, SH Sherwin, J Stephens, J Strassburg.

About the Department

Recognized as one of the premiere undergraduate theatre and dance departments in the upper Midwest, our department programs are accredited by the National Association of Schools of Theatre and the National Association of Schools of Dance.

Program Options

You may pursue either the Bachelor of Arts (BA) or Bachelor of Science (BS) degree in theatre arts with an option in drama or the Bachelor of Arts (BA) or Bachelor of Science (BS) degree in dance.

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.

168 Theatre and Dance

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

Theatre and dance majors and minors are assigned a faculty advisor whose specialty matches their area of study. The dance faculty group advises all first and second year dance majors and minors. Thereafter, dancers are assigned an individual faculty advisor. BA, BS, or BFA theatre majors are advised by the program coordinator or other faculty in their 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 number of scholarships available for entering students in dance, drama, acting, design/technology, and musical theatre. They are awarded based on theatre and dance admission auditions and interviews. Contact the department Web site or theatre and dance office for information about annual scholarship auditions. Scholarships are also available for continuing students.

Required Theatre and Dance 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, directing/choreography/management, and performance. You may repeat an area after you have completed 6 different activities.

For Minors: Register for a different practicum **once each year**. Minors 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 are 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

Joan Karlen, Dance Program Coordinator
Room 140, Noel Fine Arts Center
Phone: 715-346-3982
E-mail: dance@uwsp.edu
Web: www.uwsp.edu/theatre-dance/dance

About the dance program

UWSP's dance program aspires to create a dynamic culture in which students are inspired to achieve full physical expression, technical and stylistic range, and anatomical

efficiency. We are dedicated to artistic experimentation and contemporary inquiry that is culturally relevant and historically grounded, preparing students to communicate, contribute and lead as global citizen artists.

The dance program is accredited by the National Association of Schools of Dance. Our curriculum features ballet, modern, jazz, tap, and theatre dance technique classes, dance composition, history, movement analysis and dance education courses. Dance majors complete 48 credits including the senior-level Interdisciplinary Seminar, a course that features camera dance and digital video editing, and integrates dance with other academic disciplines and art forms. 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.

The dance faculty works with you to re-evaluate technique and explore new approaches to training at a high level. This re-evaluation includes training with optimal anatomical alignment that supports injury-free dancing.

You also develop the ability to work as a part of an ensemble, the ability to work openly and honestly with other dancers, and the ability to be flexible in the artistic process with choreographers, directors, and rehearsal assistants. Therefore, we begin all new students in our 100-level major technique courses.

We recommend that you be accepted to UWSP prior to the dance audition dates in February and March. There are a few seats available each semester for non-dance majors and minors in introductory level classes. Upper-level dance courses are not available to non-majors and minors. All dance majors and minors participate in required practicum assignments.

If you're interested in being accepted into the dance major, you are required to complete an on-campus audition and interview.

As part of the audition, you are required to perform a one-minute solo that highlights your performance skills. You or someone else may choreograph this solo. You should provide any sound accompaniment in CD format. Please prepare to stay within the one-minute time limit. The solo may be excerpted and the music cut from an existing longer work, or you may prepare a solo that is intended as a one-minute dance.

Letters of recommendation should address your ability to be successful in a university-level dance program. We recommend that one letter be written by an academic teacher who can comment on your ability to be successful in your academic coursework, and the other be written by a primary dance teacher who can comment on your ability and potential in dance.

If you wish to be accepted into the dance major program, you are required to have proficiency in two of these four areas: ballet, jazz, modern, and tap. For the minor program, proficiency in one of these areas is required.

As a student in our program, you will develop the ability to work as a part of an ensemble, the ability to work openly and honestly with other dancers, and the ability to be flexible in the artistic process with choreographers, directors, rehearsal assistants and peers. Therefore, we do begin all our new students in our 100-level technique courses.

NOTE: We recommend that dance majors complete two core classes per semester and we encourage participation in summer dance workshops to enhance performance training and expand professional contacts.

Admission, scholarship, retention requirements

1. Admission into the dance program does not guarantee admission into the university. To audition, you must first be eligible for admission to UWSP.
2. To be eligible for admission to UWSP's dance program as a major or minor, you must successfully complete an on-campus performance audition and interview during the spring semester. Detailed program and audition information, including audition dates and protocol, application forms and scholarship information is available on our website: www.uwsp.edu/theatre-dance/dance.
3. The dance program awards three \$1000 scholarships to first year students pursuing a dance major. These scholarships are based on ability and potential in dance. A variety of performance scholarships are awarded annually to continuing students.
4. To continue as a major or minor, you must meet the dance program's retention criteria and successfully complete mid-semester assessments in your technique courses each semester.

Performance and choreography

Each year the dance program provides multiple opportunities for you to perform and choreograph including *Afterimages*, a student directed fall concert; *Danstage*, a spring concert featuring new choreography by faculty and guests; *Players*, a theatre and dance student organization; repertory projects; composition course showings; camera dance projects; 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 creating and finding employment opportunities. Recent graduates perform on Broadway; with national and international dance companies; and in television, commercials and film. Others become dance videographers, form direct dance companies, open private studios, and develop dance and related arts programs for school districts.

Courses for general university students

Dance 103, 105, 115, and 114 are introductory courses open to all university students. You may apply one credit of each of these approved performance courses toward the wellness/aerobic activity general degree requirement.

Dance courses for the community

Those outside the university who wish to enroll in selected dance courses must first contact the UWSP Admissions Office to determine eligibility to enroll as a special student. Technical placement and permission of the dance faculty are also required.

Dance Major (BA/BS)

Consists of 48 credits.

1. **Core**, 22 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. Seven credits of Dance 115, 212, and 215.

NOTE: We recommend that if you are interested in continuing your dance technique studies, you should take two core classes per semester and participate in summer dance workshops.

2. **Theory**, 10 credits: Dance 220, 328, 352, 420.
3. **Performance and choreography**, 9 credits: Dance 301, 302 and one course from Theatre 242, 243, 346, 349.
4. **Interdisciplinary seminar**: Dance 496.
5. **Electives**: 4 credits from Dance 203, 204, 303, 304.
6. **Practicum**: See description above.

Dance Minor

Consists of 27 credits.

1. **Theoretical studies**, 6 credits: Dance 220, 352.
2. **Performance and choreography**, 13 credits: Dance 104, 106, 115, 212, and 301.
3. **Electives**: 8 credits from Dance 203, 204, 205, 206, 212, 214, 215, 303, 304, 305, 306, 314, or 420.
4. **Practicum**: See description above.

DRAMA

Jeffrey Stephens, Coordinator

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 we recommend that you 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, 245, 248, 327, 346, 490.
3. Electives: 9 credits approved by advisor. 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

Stephen Trovillion Smith, Coordinator

Admission audition required: Admission to the BFA acting program is by audition only. Auditions are held in the spring for fall acceptance. We recommend that you be officially admitted to UWSP before your assigned audition date. Apply early since the number of students accepted into the

170 Theatre and Dance

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 the area coordinator 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

Stephen G. Sherwin, Coordinator

Admission interview required: Admission to the design and technology program is by audition interview. Inter-views are held in the spring for fall acceptance and we recommend that you 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 Dept. 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.

Currucular Reqlurements (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 165, 166, 172, 232, 233, 244, 282, 332, 380, 381, 382, 384, 481, 482; Dance 212, and 13 elective credits approved by your advisor. 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 245, 248, 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 advisor.
3. Practicum: See description above.

Drama Minor in Theatre Arts

Gary Olson, Coordinator

Consists of 24 credits:

1. Theatre 146, 162, 160 or 170; 6 credits from 351, 352, 452; 9 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)

Tim Howard, Coordinator

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. Auditions are held in the spring for fall acceptance. We recommend that you 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 musical theatre program, 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.

Currucular Requirements (Musical Theatre)

Consists of 78 credits.

1. **General courses**, 9 credits: Theatre 146, 162, 452.
2. **Acting**, 19 credits: Theatre 170, 172, 282, 384, 481, 484.
3. **Dance**, 10 credits: Dance 103, 105, 114, 115, 212.
4. **Voice**, 14 credits: 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 advisor.
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 114. Jazz I. 2 cr. Introduction to beginning level jazz technique and performance skills. 3 hrs per wk. GDR:WL/AA

DNCE 115. Tap I. 2 cr. Master advanced beginning level tap techniques and performance skills. 3 hr. per wk. Prereq: Department of Theatre & Dance major or minor OR cons instr. GDR: WL/AA.

DNCE 199. Directed Study. 1-3 cr. Freshman and sophomore dance majors and minors may arrange for independent study on individual or group projects with cons chair. Credit based on scope of project.

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 2. Theatre dance forms with beginning period styles of jazz. 3 hrs per wk. Prereq: Theatre & Dance major or minor OR cons instr. 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: 115 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/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: 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: 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. 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/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 dance-related field. Prereq: Cons dance coord.

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: 301, 302.

Dance Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

112 Theatre Dance and Tap I, 2 cr, (07-09)

204 Modern IIB, 2-3 cr, (07-09)

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)

Courses in Theatre

THEA 105. Theatre Appreciation. 3 cr. Introductory study of 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. Performance Laboratory. 1 cr. Intensive laboratory experience in musical theatre performance techniques. May repeat for credit.

THEA 131. Vocal Training I. 1 cr. Private voice lessons for musical theatre performer. Prereq: Cons instr and program coord. May repeat once for credit.

THEA 146. Introduction to Theatre Technology. 3 cr. Study and application of materials/techniques for costume construction and stage-craft. **Costume:** hand/machine sewing, basic corrective makeup, quick changes, pulling costumes. **Statecraft:** stage equipment, rigging, wood-working tools, scale drawings, scenic and lighting design presentations, lighting systems, properties, production organization. 6 hrs lec and/or lab per wk. Prereq: Cons instr.

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 165. Movement for Actors I. 3 cr. Create awareness of the actor's physical potential while expanding physical confidence, strength, flexibility, balance and endurance. Develop kinesthetic responsiveness/sensitivity to the stimuli of partnering, environments, and psychological moods. Prereq: BFA acting option or cons instr.

THEA 166. Movement for Actors II. 3 cr. Reinforce and refine fundamentals taught in 165. Advanced exploration of physical characterization through Commedia skills, energy/essence states, archetypes, status play and neutral mask work. Prereq: 165 or cons instr.

THEA 170. Fundamentals of Acting I. 3 cr. Beginning acting course for performance majors to explore fundamental process of character development through playing a dramatic action. Includes exercises to free body, voice, emotions of inhibitions that restrict open communication within 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 199. Directed Study. 1-3 cr. Freshman and sophomore theatre majors and minors may arrange for independent study on individual or group projects with cons chair. Credit based on scope of project.

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 229. Performance Laboratory. 1 cr. Intensive laboratory experience in musical theatre performance techniques. May repeat once for credit. Prereq: 129.

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.

172 Theatre and Dance

- THEA 232. Voice and Articulation I.** 3 cr. Develop vocal strength, endurance, range and expressiveness through the training of proper alignment, breath support, placement, centering, articulation and the release of tension. Work toward neutralizing existing regionalisms; introduction to Intl Phonetic Alphabet. Prereq: 172 or cons instr.
- THEA 233. Voice and Articulation II.** 3 cr. Reinforce and refine fundamentals taught in 232. Advanced exploration of vocal expressiveness through work with classical texts and other highly theatrical styles/techniques. Further study of International Phonetic Alphabet. Prereq: 232 or cons instr.
- 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. Makeup Design.** 3 cr. Fundamentals of 2/3-dimensional stage makeup through character analysis, design, and application. Practical experience in laboratory projects. 4 hrs lec and/or lab per wk. Course fee required. Prereq: Cons instr.
- THEA 245. Properties Design.** 3 cr. Design, organize, acquire, construct stage properties for theatrical applications. 4 hrs lec and/or lab per wk.
- THEA 248. Costume Construction Techniques.** 3 cr. Study and theatrical applications of advanced sewing skills and techniques. 4 hrs lec and/or lab per wk.
- 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 multiset productions, advanced work on rendering techniques, model making, computer-aided design (CAD). Introduction to resume/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 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 346/546. 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 rendering interpretation and pattern drafting of period garments. 6 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. Classical and Medieval Theatre History.** 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. Theatre History from Renaissance to Romanticism.** 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 neoclassical 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. GDR:HU1
- 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, cold readings. Prereq: 282 or cons instr. For BFA acting/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 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, face casting, masks, puppets, leatherwork. 6 hrs lec and/or lab per wk. Prereq: 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. Modern and Contemporary Theatre History.** 3 cr. Dramatic literature of Western world from late 19th century to present. Wide variety of dramatic theories/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 20th century. Emphasis on comedy of manners. For BFA acting/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. 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.

TheatreLatent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.

386 Acting for the Camera II, 3 cr, (07-09)

THERAPEUTIC LIFESTYLE CHANGES COACHING CERTIFICATE

See *Health Promotion and Human Development*.

Undecided/Undeclared

Student Academic Advising Center

Angela Kellogg, Director

Room 103 Student Services Center (SSC)

Phone: 715-346-3361

Fax : 715-346-4143

E-mail: student.academic.advising.center@uwsp.edu

Web: www.uwsp.edu/advising/

If you have not yet declared a major, or are in one of the situations below, go to the Student Academic Advising Center (SAAC), Room 103, SSC to be assigned an advisor. SAAC advisors can help you in the development of your educational plans, in the decision-making process for selecting a major, and can help clarify the relationship between educational plans and career goals. SAAC advisors also assist you in examining major alternatives if you

- are unable to gain entrance into your preferred major due to enrollment management policies;
- are struggling to reach or maintain the academic standards set by your desired major (for example: not meeting GPA, performance or portfolio standards);
- elect to leave a major and need help in exploring your options.

URBAN FORESTRY

See *Natural Resources, Forestry*.

URBAN PLANNING

See *Geography*.

WASTE MANAGEMENT

See *Natural Resources, Soil and Waste Resources*.

WATER RESOURCES

See *Natural Resources-Fisheries and Water Resources*..

WATERSHED HYDROLOGY

See *Natural Resources-Fisheries and Water Resources*.

Web and Digital Media Development (College of Letters and Science)

Robert Dollinger, Chair of Computing and New Media Technologies

Room B-246 Science Building

Phone: 715-346-4409

E-mail: cnmt@uwsp.edu

Web: www.uwsp.edu/wdmd

Faculty: J Carter, A Damle, R Dollinger, A Ellertson, D Gibbs, D Goulet, T Krause, K Miller, T Miller, P Seeling.

The program and courses in **web and digital media development** are administered by the Department of Computing and New Media Technologies. For the most up-to-date program and course information, please visit the Web site www.uwsp.edu/wdmd.

The Web and digital media development major uses Web and digital computer technology to create, communicate and collaborate with an emphasis on applying these techniques to the world of business and commerce.

After you complete this major you will be able to develop multimedia digital presentations, CDs and Web sites. You will be comfortable with the design issues, aesthetic components, computer technology and media tools used in the creative process. You will also have an understanding of the creative, social and technological issues that shape our world and provide the context in which you will be employed following graduation.

Web and Digital Media Development (WDMD) Major

Consists of at least 58 credits:

1. Required: WDMD 100, 200, 201, 210, 211, 302, 312, 480; Business 320, 330; CIS 410.
2. Electives: Complete one of two focuses:
 - a. Design focus:
 - 1) WDMD 110 or CIS 110.
 - 2) WDMD 202.
 - 3) 18 credits in WDMD courses numbered 345 and above.
 - b. Technical focus:
 - 1) WDMD 110 and 111, or CIS 110.
 - 2) CIS 120, 210
 - 3) Math 209
 - 4) Complete one of two concentrations:
 - a) Application Development: CIS 310 and either 341 or 442.
 - b) IT Infrastructure: CIS 360 and either 462 or 463.

Web and Digital Media Development Minor

Consists of at least 23 credits:

1. Required: WDMD 100, 200, 201, 210, 302; WDMD 110 or CIS 110.
2. Electives: 2 WDMD courses numbered 345 and above.

Academic Standards and Admission Procedures

1. The WDMD major is open to all university students.
2. To declare a major in WDMD, complete the appropriate form available in the Department of Computing and New Media Technologies office.

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. GDR:HU1

WDMD 110. Introduction to Object-Oriented Computing. 2 cr. Introduction to the object-oriented paradigm. Development of object-oriented computing principles including objects, properties, classes, abstraction, aggregation, inheritance, encapsulation and polymorphism. Coding in an object-oriented meta language. Can not receive credit in both WDMD 110 and CIS 110.

WDMD 111. Introduction to Object-Oriented Programming. 2 cr. Development of object-oriented programming techniques using objects, properties, classes, abstraction, aggregation, inheritance, encapsulation and polymorphism. Coding in an object-oriented language. Can not receive credit in both WDMD 111 and CIS 110. Prereq: 110.

WDMD 200. Introduction to Computer Graphics. 3 cr. Survey of three common varieties of software used in Web and multimedia development, including raster-based, vector-based, and motion software. Prereq: 100 or con reg.

WDMD 201. Introduction to Digital Media Creation. 3 cr. Examine core concepts related to digital media creation, including graphics, audio, video and the multimedia development process. Prereq: 200.

WDMD 202. Digital Image Development. 3 cr. Use advanced graphics and animation tools to develop digital images. Prereq: 200.

WDMD 210. Web Design and Development I. 3 cr. Fundamental principles and techniques of Web development, user-centered Web design, and basic project management. Topics include (X)HTML, CSS, basic JavaScript, and tools for developing Web applications including code, graphics, and basic multimedia. Prereq: 110 or CIS 110.

WDMD 211. Web Design and Development II. 3 cr. Concepts of client-side programming of Web applications. Introduction to one or more Web-centered languages including JavaScript and XML. Prereq: 210.

WDMD 300. Applied Web Development. 3 cr. Introduction and applied use of Web design tools; emphasis on practical Web development strategies and industry best practices. Does NOT count toward WDMD major or minor. May not earn credit in both 270 and 300.

WDMD 302. Multimedia Authoring. 3 cr. Develop and create digital media including video, audio, animation. Prereq: 201.

WDMD 312. Web Design and Development III. 3 cr. Concepts of server-side programming of Web applications. Introduction to one or more Web-centered languages including PHP and SQL database. Prereq: 211.

WDMD 345. Advanced Media Development Tools. 3 or 4 cr. Use professional software tools for digital media development. Subtitle will indicate tool(s) and number of credits. Prerequisite will be determined at time of offering based on subtitle. Does not count for Technical focus of WDMD major.

WDMD 346. Contemporary Topics in Web and Digital Media. 3 or 4 cr. Examine contemporary and emerging topics in Web and digital media. Subtitle will indicate topic and number of credits. Prerequisite will be determined at time of offering based on subtitle. May repeat for credit with different subtitles. 3 cr max toward Design focus of WDMD major. Does not count for Technical focus of WDMD major.

WDMD 360. Digital Audio and Video Production. 3 cr. Nonlinear audio and video production techniques including storyboarding, scene visualization, and editing. Prereq: 302.

WDMD 362. Digital Portfolio Development. 3 cr. Advanced examination and application of professional digital portfolio components and processes. Develop, refine and present artifacts that relate to digital media design and development. Prereq: 302 and jr st.

WDMD 364. 3-D Computer Graphics. 3 cr. Develop 3-D computer modeling skills as well as introductory animation skills. Theory of design principles including scale and proportion, 3-D composition, color, etc. as applied to 3-D computer-simulated environments. Prereq: 201, 202.

WDMD 365. Digital Game Development. 3 cr. Explore the theory, design, and development of games and simulation for the Web through the use of animation and interactive programming. Prereq: 364.

WDMD 368. Advanced Digital Image Development. 3 cr. Development of advanced skills and techniques for visual storytelling across client-required media including print, web, and multimedia. Prereq: 202.

WDMD 397. Internship in Web and Digital Media Development. 1-3 cr. Participate in supervised training work program that you arrange with your advisor at a cooperating organization. Advisor and chair determine credits. May repeat for 3 cr max. Does not count for Technical focus of WDMD major. Prereq: Cons chair.

WDMD 399. Independent Study. 1-3 cr. Independent study/project development in Web and/or digital media. Advisor and chair determine credits. May repeat for 3 cr. Max. Does not count for Technical focus of WDMD major. 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: 302, 312; CIS 410.

Web and Digital Media Development Latent Courses: Not offered recently. See full course description in indicated (xx-xx) catalog.
101 Intro to Web and Digital Media Development, 3cr, (07-09)
338 Web Server Administration, 3 cr, (07-09)

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 ECOLOGY

See **Natural Resources.**

Women's Studies (College of Letters and Science)

Nerissa Nelson, Coordinator
Room 104B, University Library
Phone: 715-346-4204
E-mail: nnelson@uwsp.edu

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, 365; Geography 371; History 284, 285, 332, 384, 385, 395 with approp subtitle, 490 with approp subtitle; Music 301; Philosophy 350, 351; Political Science 408, 414; Psychology 240; Religious Studies 321 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 300. 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 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. 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. See full course description in indicated (xx-xx) catalog.

200 Topics in Women's Studies, 1-3 cr, (07-09)

320/520 Literary Perspectives on Race and Gender, 3 cr, (07-09)

350/550 Women and Science, 3 cr, (01-03 catalog).

500 Topics in Women's Studies, 3 cr, (07-09)

WRITING

See *English*.

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
 with specialization in speech-language pathology
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.

Clinical Doctorate in Audiology (Au.D.) with UW-Madison

In addition, you may take part in programs offered through UW-Stevens Point's cooperative arrangement with UW-Oshkosh that 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 that 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 advisors to aid you as you progress through your graduate career at UW-Stevens Point.

Graduate Study: Faculty and Structure

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 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, be actively involved in graduate affairs, and chair graduate students' committees. Graduate faculty members have a (G) following their individual listings that appear at the end of this catalog. Please check with your department for names of graduate faculty who are eligible to chair graduate students' committees.

Graduate Council. The Graduate Council is a standing committee of the Faculty Senate. 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 handle general departmental concerns, and they should not be confused with your personal graduate committee and your graduate advisor. Departmental graduate committees/coordinators serve ALL of the graduate students in the department. Your graduate advisor and your graduate committee serve YOU.

UW-Stevens Point does not have a dedicated office for handling graduate student issues and administration. When you have questions about a specific degree program, go to the department graduate 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, weekly coursework, term paper, class project, research project, or thesis, unless the instructor specifically authorizes group work. This expectation applies to all work submitted.

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 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.

Students who engage in academic misconduct will be subject to UW System disciplinary procedures.

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.

Research Misconduct Procedures for Culminating Experiences:

- 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 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. The investigation must be initiated within 30 days of 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.

Academic Misconduct Procedures for Graduate Coursework:

As a graduate student, if you plagiarize or engage in academic misconduct within any aspect of your graduate coursework, you will be subject to academic misconduct sanctions as outlined in UWS 14.

Research Using Human Subjects. All graduate student research using humans as subjects, whether funded or not, must be approved by the university's Institutional Review Board (IRB) to ensure compliance with the state of Wisconsin Department of Health and Human Services (DHHS) Guidelines on Research Involving Human Beings (45 CFR 46), and UW System principles concerning research on human beings as subjects.

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 (or apply online) a completed graduate study application form, the nonrefundable application fee (**\$56 domestic applicants; \$125 foreign applicants**), and official transcripts from each college you have attended (both undergraduate and graduate). The transcript from the college from which you graduated must

178 Graduate Study

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 of your intended program.

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 student with graduate special status. To attend UW-Stevens Point as a student with graduate special status, 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 advisor 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 UWSP, but are permitted to enroll in specific courses with the approval of your graduate advisor 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 advisor (and a graduate committee if required by your discipline).
- complete and get approval for your Program of Study.

Graduate Advisor

When you first enter your graduate program, you will probably be assisted by a departmental graduate advisor 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 advisor who may also be known as your "major professor." This individual plays a key role in guiding you through your graduate career. Your graduate advisor should act as a personal advisor, mentor, advocate, constructive critic, and friend. Your graduate advisor 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 advisor 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 advisors who will form your graduate committee. The graduate coordinator or your graduate advisor normally assists in this process.

The graduate committee consists of at least three graduate faculty members including your graduate advisor. 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 advisor 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 advisor, 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 advisor 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 advisor 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 Master's Degrees and Clinical Doctorate Degree

- Have a maximum of 9 credits completed at the time of admission.
- Complete a minimum of 30 credits in graduate courses (Communication, 30 cr + 1 credit colloquium), (Communicative Disorders, 37 cr + 21 cr practicum).
- Take at least 15 credits in courses numbered 700 and above.
- Have an approved Program of Study on file with your advisor and the graduate coordinator of your department, school, or college before you complete 15 credit hours toward the degree.
- Maintain a minimum overall grade point average (GPA) of 3.00.
- Apply no more than 6 credits total in special topics courses and independent study courses toward your 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 2007. Part of your approved plan of study for your master's degree includes a course taken in spring 2005. Thus, your seven-year time period to complete the degree starts with the beginning of the spring 2005 semester, NOT the semester in which you were accepted into your graduate program. 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:

- Be eligible for teacher certification in your area of specialization (biology, English, history) in Wisconsin or another state.
- Complete a 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.

- Complete, at minimum, the equivalent of a major in your area of specialization at the completion of the graduate program.
- Have a minimum grade point average of 3.00 in your 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. Normally courses with pass/fail grades do not apply to a graduate degree program. For exceptions, see the description of individual graduate degree programs.

Academic Progress Standards for Grad Students 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, P, W, or WF. Plus and minus grades are included.

180 Graduate Study - Academic Information

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 for a master's degree.
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 and degree requirements that are in effect at the time of readmission.

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 500-999 group. You must have graduate standing to take courses 700 and above.

When you take dual numbered courses (300/500 and 400/600) 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 course syllabus.

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. Evidence of graduate level coursework should be present in the form of specific, additional assignments when part of a slash (300/500 or 400/600) course.

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 advisor 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 of your graduation. However, some programs require you to 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 advisor 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 meeting this requirement include: thesis, seminar paper, oral and/or written comprehensive examination, clinical paper or semester, integrative course, exhibition, or recital. Most programs will require more than one of these 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 2007. Part of your approved plan of study for your master's degree includes a course taken in spring 2005. Thus, your seven-year time period to complete the degree starts with the beginning of the spring 2005 semester, NOT the semester in which you were accepted into your graduate program.

Drop/Add Procedure

For the current drop/add procedures, go to the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>). Click on "Registration" and then "Drop/Add Dates." You can also go to the *More Academic Information* section of this catalog for drop/add (change of registration) instructions. Get drop/add forms at Registration and Records, 101 SSC. You can also find them online on the Records and Registration homepage (<http://www.uwsp.edu/reg-rec/>), and clicking on "Forms" and then "Add/Drop Form and Instructions."

Employed Students

If you are employed, you should consider the time demands of your 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 Assessments 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. Please note there is no 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 indicates unsatisfactory work and does not apply toward your degree.
- GP Indicates thesis and thesis-like courses in progress.

Graduation Requirements & Deadlines

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 advisor 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 to allow time to include your name in the program book.

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

For current registration procedures, go to the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>). Click on "Registration" and then "Steps to Register at UWSP." Registration instructions for off-campus and credit-outreach courses are available from the UWSP Continuing Education office and the CPS Continuing Education office. See Web sites www.uwsp.edu/reg-rec/; www.uwsp.edu/conted/; and www.uwsp.edu/cps/conted/.

Schedule of Classes

Be sure to check the online timetable on the Registration and Records homepage (<http://www.uwsp.edu/reg-rec/>) and click on "Timetable." From there, click on "List of Courses by Term" for the most up-to-date list of course offerings. 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.

182 Graduate Study - Academic Information

Second Master's Degree

If you have earned a graduate degree from UWSP 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 Admissions Office to be certain that your records are complete. Credits earned for one degree usually cannot be used to satisfy 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 advisor briefly describing what you want to do and how you plan to do it. Your graduate advisor 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 advisor 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 advisor 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

You may order copies of your transcript online at www.uwsp.edu/reg-rec/. If you don't have Internet access, you can submit a written request to the Registration and Records Office, UW-Stevens Point, 1108 Fremont St., Stevens Point WI 54481-3897. A payment of \$5.00 per transcript must accompany your request. In order to receive a transcript or diploma, you must have paid all your financial obligations to UWSP.

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 grad 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 copy 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 applies 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 Registration and Records. The transfer credits will be added 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 Continuing Education

Room 032 Main Building
Hours: 8:00 am-4:30 pm, Monday-Friday
Phone: 715-346-3838 or 800-898-9472
Web: www.uwsp.edu/conted

CPS-Continuing Education (CPS-CE)

Room 100, College of Professional Studies Building
Phone: 715-346-3801 and 715-346-4324
Web: www.uwsp.edu/cps/conted

Credit courses are taught by faculty at various locations throughout Central Wisconsin, as well as online and via television and video. 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: General Information

The Board of Regents of 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 fellow-ship, 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 advisor 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. Any change in your work schedule should be negotiated BEFORE you need to make the change.

Categories of Graduate Support

With a "full" graduate assistantship you are expected to work half time. This 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 and/or research projects, developing materials for classroom instruction, assisting in departmental libraries, etc. Assigned duties may include gathering, organizing, and analyzing information for a department and may involve

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 tax-able. 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 advisor must certify that:

- The research project is required for graduation.
- You are making satisfactory degree progress.
- The funds are necessary to complete the research.

184 Graduate Study - Checklist

Proposal deadlines occur twice each semester. Contact the Grant Support Office (715-346-2632) 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 and Clinical Doctorate Degree

Below is a series of chronological steps you need to 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 \$56 application fee (\$125 for foreign applications)	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 advisor	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**

Meredith Seiler, Graduate Coordinator
 Room 167, College of Natural Resources Building
 Phone: 715-346-4402
 E-mail: biology@uwsp.edu OR meseiler@uwsp.edu

UW-Stevens Point offers a Master of Science in Teaching (MST) in Biology. The Department of Biology administers the program through the department chair and department graduate coordinator. The primary purpose of this program is to meet the educational needs of teachers who have already completed the teacher certification process. As a secondary school teacher, the MST-Biology program will give you the opportunity for advanced study, experimentation, research, and involvement in professional activities.

If you are interested in a Master of Science (MS) degree, examine the Master of Science in Natural Resources. Most biology faculty have joint appointments in the College of Natural Resources and can serve as major advisors for that degree. You may also consider the Master of Science in Education. A science education faculty member may serve as your advisor.

Admission to the Program

The **Graduate Study** section of this catalog describes admissions requirements and procedures for graduate study at UWSP. To pursue a graduate program in biology, you must:

1. Submit an application to the UWSP Admissions Office, which will forward the application to the biology graduate coordinator;
2. Have an undergraduate major or minor in biology;
3. Have a 2.75 overall undergraduate GPA;
4. Have a 3.00 undergraduate GPA in the biology major or minor; and
5. Submit an unofficial copy of your teaching license.

If you don't meet these criteria, you may appeal to the graduate coordinator and chair for acceptance on probation. Probation requires a minimum 3.0 average based on the first 9 graduate credits completed at UWSP. You may have to complete additional coursework.

On formal notification of acceptance into a graduate program, you will be assigned a departmental advisor who will work with you to complete a Program of Study form in the first semester of your graduate program. The planned course of study is provisional based on course availability.

Policies

The **Graduate Study** section of this catalog describes all graduate requirements, but the following provisions are particularly important:

1. UWSP does not automatically accept transfer graduate credits. You must submit a formal application to the Department of Biology for approval of up to 9 credits from another accredited graduate institution; only 6 of these credits may be Extension credits.
2. The Department of Biology determines whether graduate credits taken before admission to a graduate degree program will apply toward the fulfillment of requirements of the UWSP degree program. Graduate courses taken as a special student at UWSP also fall under this provision. You may not use more than 9 graduate credits earned

before graduate admission to satisfy requirements for the degree program.

3. You must complete all degree requirements, including transfer credits, within a seven-year period that is counted from the end of the term when the first degree course was taken. You may apply for an extension which necessitates the approval of the biology graduate coordinator, the dean of the college, and the Graduate Council. Time extensions are granted only for unusual health conditions, fulfillment of military obligations, or other extenuating circumstances.
4. A maximum of 6 credits earned in Biology 796 (Independent Study) may apply to a master's degree, unless there are programmatic factors beyond the department's or your control. The biology graduate coordinator may grant approval for exceptions.
5. With the exception of thesis credit, a grade of incomplete automatically becomes an F unless it is removed before the end of the next semester or summer session in which you are registered. For an incomplete to be granted, you and the instructor must agree on the specific requirements, including a firm date for the completion of the work and removal of the incomplete.
6. No credits with pass/fail grades will be accepted toward the degree.
7. To receive a graduate degree, you must apply for graduation in the Registration and Records Office at the beginning of the term in which you expect to receive the degree and not later than the end of the third week of a semester or first week of a summer session. Graduate degrees are conferred only in May and December. If you apply for graduation and do not complete the degree requirements, you must reapply for graduation.
8. Except for those courses in which you are currently enrolled, you must complete all degree requirements at least 20 days before the degree conferral date. If you have incomplete coursework or lack an approved thesis or other culminating experience in the Department of Biology, you will not be eligible for graduation.
9. If writing a master's thesis, you must file two unbound copies of your thesis in the library at least 10 days before graduation. One copy of the thesis is for the library; the second is for the Department of Biology. The library will charge you a nominal fee for binding.
10. You must meet at least once per year with your graduate coordinator and/or your graduate committee.

The Program

1. You must earn and maintain at least a 3.00 GPA in the MST program.
2. At least 15 graduate credits must be in courses numbered 700 and above.
3. A culminating experience is required.
4. Coursework distribution:
 - a. Major area of specialization, 21-24 credits, primarily in biology courses. Your graduate committee may approve graduate coursework from other areas (e.g. chemistry, geography, geology, mathematics, natural resources, physics). If you were admitted without a biology major, you must complete the equivalent of an undergraduate biology major in your MST program.

186 Graduate Programs - Communication

- b. Professional education, 6-9 credits numbered 700 and above. Especially recommended are: Education 702, 703, 705, 707, 721, 771; Natural Resources 61X series, especially 614; NRES 701.

Culminating Experience

Thesis option: For those who wish to pursue original research in an area of biology or biology teaching.

1. Upon admission to the MST program, you should meet with your graduate coordinator and indicate your selection of thesis option. At this time you should discuss your proposed thesis with your graduate coordinator who will then appoint a thesis advisor knowledgeable in your area of interest.
2. You then meet with your thesis advisor to discuss the thesis and submit a written proposal.
3. After your written proposal has been approved by your advisor and graduate coordinator, two other graduate faculty members conversant with your thesis area will be appointed by the graduate coordinator to make up your thesis committee.
4. You will then make a formal presentation to the thesis committee covering (1) a prospectus for the thesis (2) a preliminary bibliography, and (3) a summary of major problems that need to be addressed. The committee will provide you with suggestions for completing the thesis, including the number of credits for the thesis when it is satisfactorily completed.
5. Following this presentation and upon receiving the committee's approval, you should register for thesis credit in Biology 799 at the next registration period. You must enroll for at least 2 but no more than 6 thesis credits.
6. Establish a schedule and submit drafts of portions of your thesis to your thesis committee for suggestions and critique. Consult regularly with your committee throughout the writing of your thesis.
7. At least 10 weeks before you intend to graduate (four weeks in summer session), submit the completed thesis to your committee for final evaluation. The committee will meet with you in an open forum to discuss the thesis, including any recommendations for revision. This will constitute the oral examination for the graduate degree.
8. Upon acceptance of your thesis and at least 10 days before graduation, the required copies of your thesis bearing the signature of the thesis committee will be forwarded to the Biology Department.

Comprehensive examination option, written and oral.

1. Inform your graduate coordinator that you are selecting this option. Your examining committee will consist of your graduate advisor plus two members of the graduate faculty.
2. The examination will take place during the term in which you will complete the degree requirements. Early in that term or in the prior term you and the committee will meet to discuss the range of coverage for the examination.

Portfolio and examination option: For those who have been and are actively involved in writing for publication and/or actively participating in professional activities.

1. Submit the following to your graduate coordinator who will then select a three-member committee to review your proposal. (The proposal and materials will be

evaluated for their significance, originality, scholarship, and contribution to the profession.)

- a. **Rationale:** Write a brief (500 words) justification for your decision to select the portfolio option. Include a statement of how many credits of portfolio you wish to include toward the graduate degree.
 - b. **Summary of work to date:** List all appropriate publications and professional activities you have completed. Include copies of publications, manuscripts accepted for publication and other supporting materials.
 - c. **Award and honors:** List any recent awards or honors that indicate achievement in writing or other professional accomplishments.
 - d. **Timetable for completion:** Provide specific dates for completion of works-in-progress and submission of your completed portfolio. The completed portfolio must be submitted to the committee at least 10 weeks (four weeks in summer session) before the date you intend to graduate.
2. You must also complete a written examination during the term in which you will complete the degree requirements. Early in that term or in the prior term you and committee will meet to discuss the range of coverage for the examination. The examining committee will consist of your graduate advisor plus two members of the graduate faculty.

Communication

Chris Sadler, Graduate Coordinator
Room 312, Communication Arts Center
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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 advisor, 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, you must present a current TOEFL score with a minimum of 577 paper-based, 233 computer-based, or 91 internet-based. 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 Pro-gram 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

Julia King, Coordinator of Graduate Programs
Room 0034, College of Professional Studies Building
Phone: 715-346-4657

E-mail: commdis@uwsp.edu OR Julia.King@uwsp.edu
Web: www.uwsp.edu/commd

The School of Communicative Disorders (SCD) offers a master's of science degree in speech-language pathology. You will receive the academic background and clinical practicum experience required to function competently and independently in a variety of professional

188 Graduate Programs - Education

employment settings. For more information, see www.uwsp.edu/commd.

The UW-Stevens Point School of Communicative Disorders has developed a joint clinical doctorate in audiology (Au.D.) program with the UW-Madison Department of Communicative Disorders. Our universities have merged their resources to provide a unique professional doctorate program. The joint doctoral program in audiology at UW-Madison and UW-Stevens Point is a candidate for accreditation by the Council on Academic Accreditation (CAA) in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association. This is a pre-accreditation status with the CAA, awarded to developing or emerging programs for a maximum period of five years. For more information see www.aud.wisc.edu.

The faculty and staff in the SCD provide you with a high quality education that emphasizes training in the prevention, evaluation, and treatment of disorders of hearing, speech, language, and swallowing. Graduates are employed throughout the country in schools, universities, hospitals, skilled nursing facilities, and private/public clinics.

Clinical training begins at the undergraduate level and culminates with a full-time clinical externship at the end of the graduate program. In consultation with the director of Clinical Services, you will select a site for your externship. If you are in the audiology program, you will complete a full-time clinical externship during the entire fourth year of study. In the speech-language pathology program, you will complete a full-time 15-20 week externship in a school, health care facility, or clinic setting during the final semester of your program.

Admission to the Program

Contact the coordinator of graduate programs for specific information about the application process for both the speech-language pathology and audiology programs. For both programs you will need the following to be considered for admission:

1. A completed application for admission to the program,
2. A statement of professional intentions (i.e., interest and goals),
3. Three letters of recommendation,
4. GRE scores,
5. A completed practicum and work experience form,
6. A completed undergraduate major in communicative disorders or equivalent coursework.

Applications for graduate school are due in January for the next fall semester. For forms and specific deadlines, go to www.uwsp.edu/commd/ for speech-language pathology and www.aud.wisc.edu for audiology.

Admission to Candidacy

You must complete at least 9 credits of graduate work with a GPA of 3.00 (B). See the Graduate Handbook in Speech-Language Pathology or the University of Wisconsin Professional Doctor of Audiology (Au.D.) Degree Student Handbook for details regarding candidacy.

Specializations

In either specialization you must meet 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 speech-language pathology, you must take a comprehensive examination the semester before you begin a 15-credit clinical semester. 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. You may complete a thesis in lieu of taking comprehensive examinations as a culminating experience. The thesis must be completed prior to graduation.

In audiology you will culminate your graduate program with a capstone project during the third year and a full-time, clinical externship during the entire fourth year.

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 educgradadv@uwsp.edu
Web: www.uwsp.edu/education/graduate/
The School of Education offers the following graduate programs:

- Master of Science in Education–Elementary Education (MSE), for certified teachers.
- Master of Science in Education–General, for certified elementary or secondary teachers with two or more years **full-time** teaching experience.
- Master of Science in Teaching. See more information in the [biology](#), [English](#), and [history](#) sections of these graduate pages.

You may also work toward:

- Master of Science in Education: Educational Administration **OR** Specialist in Education: Educational Administration, offered in cooperation with UW-Superior.
- Master of Science in Education: Professional 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)
- Program planning and advisor 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

- Registration information
- Requests for official transcripts
- Application for graduation

CPS-Continuing Education (CPS-CE)

Room 100, College of Professional Studies Building
 Phone: 715-346-3801 and 715-346-4324
 Web: www.uwsp.edu/cps/conted

- Offerings for nontraditional students
- Courses for add-on certifications

UWSP Continuing Education

Room 032, Old Main Bldg; 8 am–4:30 pm; Monday-Friday
 Phone: 715-346-3838 or 715-800-898-9472
 Web: www.uwsp.edu/conted

- Off-campus course listings
- Registration for outreach/distance learning courses

**MSE–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 MSE–Elementary Education program.
 - b. 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 for undergraduate 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 advisor 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 SOE Graduate Advising. Once you are admitted you will receive a UWSP catalog, “working copy” form, planning guide sheet to use as you prepare your proposed plan of study, and be assigned an advisor.

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 advisor 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 advisor approval prior to enrollment.)
2. **Liberal arts:** 6-9 credits outside education (courses without the EDUC prefix).
3. **Area of specialization:** of remaining education credits, at least 3 must be instructional methods, supervision and instruction, reading, foundations, etc. Advisors may approve exceptions for 500 level courses.
4. Fifteen credits must be at the 700 level.
5. Educ 758, 761, 771, 772 are pass/fail. Only these courses may be applied to the master’s program.

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 (graduation credit check)

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 ceremony.
- Apply by December for May diploma and 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.

MSE-General

The MSE-General is for licensed teachers with at least two years **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

190 Graduate Programs - Education

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. 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 number of days with five or more hours/day.
7. Have an employing official provide a letter of reference.

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.

NOTE: Educ 758, 761, 771, 772 are pass/fail. Only these courses may be applied to the master's program.

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 advisor 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 advisor will approve.

SOE Graduate Advising makes all official advisor assignments after your proposed plan of study and rationale statement have been received. You may **request** a specific advisor at this time. SOE Graduate Advising will send you a letter of advisor assignment including address, phone and e-mail address of your advisor. Schedule an advising conference with your assigned advisor 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 be retained in SOE Graduate Advising. If you

want to change your officially approved Program of Study, you must submit a change of study request form to SOE Graduate Advising prior to enrollment in the new class. Contact SOE Graduate Advising for more information.

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 advisor) 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 (graduation credit check)

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. 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 advisor assigned. Curriculum requirements for each certification 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 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 awarding the master's degree. In some cases, coursework will apply to both programs. Certification candidates, therefore, will have two program plans on file: one leading to certification and another leading to awarding the

master's degree. It is conceivable that a candidate may complete requirements for one program plan prior to completing requirements for the other program plan. Contact SOE Graduate Advising, 715-346-4403 for further information.

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 required courses: Educ 570 (Workshop in Educ: Curric/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 advisor). This will allow you to either specialize in one area or obtain equal coursework in each area.

Entrance qualifications for multi-categorical special ed are:

1. Be a certified teacher.
2. Be admitted to Graduate Studies.
3. Be provisionally certified in an area of special ed.
4. Have a minimum of 3 credits (Educ 351/551).
5. Commitment 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.

192 Graduate Programs - English

To receive certification you must earn 9 prerequisite credits (6 from Area A and 3 from Area B) as described below. You can take them at the graduate or undergraduate level, but 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). In addition, you need 13 credits from Area C below.

1. **Area A**, 6 credits, one course from each group.
 - 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. **Area C**, 13 credits: Educ 740, 741, 746, 747, 748. NOTE: Area C courses must be earned within a seven-year period (starting with the beginning of the term the course was approved for your Program of Study).

Reading Specialist (317) Certification

NOTE: You must have three years of successful **regular** classroom teaching experience in addition to the course-work for certification.

Meet the following requirements:

1. Complete a master's degree in an education field.
2. Meet the requirements for reading teacher (316) certification as described above.
3. Complete Educ 328/528, 749, 750, 751. NOTE: Courses for reading specialist 317 license must be earned within a seven-year period (starting with beginning of the term the course was approved for your Program of Study).

MSE: 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.

MSE: 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

Gregory Summers, Graduate coordinator
Room 477, Collins Classroom Center
Phone: 715-346-2334
E-mail: history@uwsp.edu OR gsummers@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

Minimum requirements for admission to 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 advisor, 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 advisor. At that

meeting, discuss your program, progress, and potential for success in completing your degree.

The Program

In consultation with your advisor, 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 3.25 GPA in 30 credits of graduate work.
 - 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 700 and above and at least 6 of them at UWSP.
 - c. Complete History 701, 716, 756 or 776. 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.** To earn your degree:
 - a. Achieve 3.25 GPA in 30 credits of graduate work.
 - b. Earn 12 credits in history, at least 9 in courses numbered 700 and above.
 - c. Earn 12 credits, with your advisor's approval, in one or more of the social sciences.
 - d. Complete History 701, 716, 756, or 776.
 - e. 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 advisors, you determine your Program of Study in your area of specialization. If you wish to make exceptions to these history requirements, the history 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 advisor and inform the graduate coordinator. After you submit the completed thesis, take an oral examination on it conducted by your thesis advisor and two other members of your department chosen by your advisor in consultation with you. Your advisor and one other member of your committee must approve both your thesis and your responses. You must also 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. In addition, you must write two comprehensive questions for the component of the MST in the School of Education.

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. A resume and a statement of your teaching philosophy.
2. Academic materials (exams, papers, book reviews, etc.) produced in your graduate history courses.
3. A detailed course proposal and 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

Jasia Steinmetz, Graduate Coordinator in HPHD
Room 202, College of Professional Studies Building
Phone: 715-346-4087

E-mail: hphd@uwsp.edu OR jsteinme@uwsp.edu

Web: www.uwsp.edu/hphd/academics/NutriSci.asp

Abbreviations

FCS = Family and Consumer Sciences

FN = Food and Nutrition

HCR = Human and Community Resources

HD = Human Development

HP/W = Health Promotion/Wellness

You may earn the MS in Human and Community Resources or the MS 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 MS degree in Human and Community Resources is designed to broaden your expertise in family/consumer sciences, child/family studies, health promotion/community resources, or adult education. Each program is developed according to your individual needs and career goals.

Admission to the Program

For Human and Community Resources you need:

1. 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). We may grant probationary status if you have a GPA below 2.75.
2. A current resume or curriculum vitae.

194 Graduate Programs - Human and Community Resources and Nutritional Sciences

3. A letter of intent detailing your background qualifications, career goals, and how this program fits into your future professional plans.
4. GRE (Graduate Record Exam) or 5-10 years of professional baccalaureate work experience.

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 advisor 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 advisor 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: HCR 700, 789, 798.
2. Choose one:
 - a. Human development option: HD 765, 766 with tracks in family and consumer science 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:** HCR 798, 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 credits and an examination as the culminating experience. The 4-hour exam consists of 3 essay questions from courses in your program of study. Requires passing score on each exam question.

Nutritional Sciences

The MS degree in Nutritional Sciences addresses needs of (1) students with a background in nutrition or other health field to improve their knowledge base and sharpen their research skills, and (2) registered dietitians or others who are already working in nutrition/health areas to use the

de-gree for career enhancement/professional development.

Admission to the Program

For Nutritional Sciences you need:

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 equiv and prerequisites with grade of C or better prior to admission: Chemistry 260; FN 106 and FN 457. 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.
5. GRE (Graduate Record Exam) or 5-10 years of professional baccalaureate work experience.

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 advisor 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 advisor 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: HCR 700, HCR 720; HD 798; FN 749, 751, 758.
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 credits, including 6 thesis 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 credits including three 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 elementary/secondary education, Suzuki talent 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 UWSP 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 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 elementary/secondary education, 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. Elementary/secondary: 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 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 selection of a graduate committee and project advisor, 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, 0-4 credits.
 - a. Suzuki and studio pedagogy: take 2 semesters of applied music on your major instrument, MUS 760-782.
 - b. Elementary/secondary music: applied study is elective.
2. Music theory and applied creativity, 6 credits. If you have deficiencies after taking placement exam, you may be required to take additional theory courses.
3. Music history/literature, 6 credits. If you have deficiencies after taking placement exam, you may be required to take additional music history courses.
4. Music education:
 - a. Elementary/secondary music, Suzuki, 6 credits: Music Ed 786 and 787 (or 788-Suzuki)
 - b. Studio pedagogy, 6 cr: Music Ed 786 and Music Ed 791-796 in applicable performance area.
5. Capstone project, 4 credits (culminating experience).
6. Electives, 4-8 credits.

Culminating Experience

You will write a capstone project and make an oral defense before your committee.

Natural Resources

John Houghton, Associate Dean of Academic Affairs
 Room 100, College of Natural Resources Building
 Phone: 715-346-4617
 E-mail: jhoughto@uwsp.edu
 Web: www.uwsp.edu/cnr/graduate

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, youth 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 resources professional activities. We have designed all our programs to meet your individual needs and interests.

Admission to the Program

To be considered for acceptance into the College of Natural Resources graduate program, submit the following:

1. UWSP application for graduate study,
2. Application to the College of Natural Resources graduate program,
3. Resume,
4. Copy of a paper written by you,
5. Essay describing your professional interests and goals,
6. Two letters of recommendation,
7. Official Graduate Record Examination (GRE) and TOEFL or IELTS Scores (foreign applicants only).

196 Graduate Programs - Natural Resources

8. You must also 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.

To be admitted to the graduate program you need a faculty member to agree to serve as your advisor. Please contact faculty members in your area of interest to discuss your application. When a faculty member agrees to be your advisor, you will receive a letter of acceptance to the graduate program.

The Program

1. You must earn at least 30 credits in graduate courses that are approved by your graduate committee. At least 15 credits must be in courses numbered 700 and above.
2. You must take graduate courses in at least three 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 (NRES 799) or independent study (NRES 796) credits during each semester you are a full time student.
5. You must complete one credit of NRES 794, two credits of NRES 795, and one additional credit from NRES 750, 791, or 794. A maximum of four credits in NRES 794 and 795 count toward your 30 credit requirement.
6. You must pass a comprehensive oral final exam conducted by your graduate committee.
7. You must complete either the Thesis Option or the Non-Thesis Option:
 - a. **Thesis option** (recommended for most students)
 - 1) Complete a thesis.
 - 2) A maximum of 6 theses credits (NRES 799) count toward your 30 credit requirement
 - 3) Submit a bound and an electronic copy of your thesis to the University Library.
 - b. **Nonthesis option** (available only with approval of your graduate committee)
 - 1) You must complete an Independent study (NRES 796), 3 credits: (library research, management plan, etc.)
 - 2) A maximum of six independent study (NRES 796) credits count toward your 30 credit requirement.
 - 3) Submit a bound copy of your independent study paper to the University Library.

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 courses.

MS Degree with Emphasis in Human Dimensions of Natural Resources – Non-thesis

The following Natural Resources MS programs emphasize the Human Dimensions aspects of Natural Resources

Management. These MS degree programs provide graduates with relevant advanced professional knowledge and skills. These programs do not require a thesis and thus are not intended to prepare graduates for doctoral programs. As a candidate for these programs, you must have relevant undergraduate degrees (e.g. natural resources, natural sciences, education, etc.) and relevant work experience. A faculty advisor complementary to your interests will be determined based on the recommendation of the Faculty Advisory Council for each program track.

- 1) **MS in Natural Resources/ Environmental Education for K-12 Teachers.** This program is open to licensed, continuing teachers who wish to develop their skills and expertise in natural resources, environmental education, applied research, methodology, and leadership. Your advisor will be determined based on the grade level you teach and your professional interests.
- 2) **MS in Natural Resources/Residential Environmental Education Program.** This program is a partnership between the College of Natural Resources and a residential EE center. Designed for student interns/fellows who wish to develop their skills and expertise in natural resources, residential environmental education programming, applied research, and leadership. Courses are offered on-line, at residential EE centers, and on campus.
- 3) **MS in Natural Resources in Environmental Education and Interpretation.** This wholly distance-education program is designed for working professionals who wish to develop their skills and expertise in natural resources, environmental education and interpretation, applied research, and leadership. You must have 3-5 years of relevant work experience to apply.
- 4) **MS in Natural Resources in Leadership and Administration.** This wholly distance-education program is designed for working professionals who wish to develop their skills and expertise in natural resource leadership, policy and administration, and applied research. You must have 3-5 years of professional experience in an agency, NGO, or industry related to natural resources and an undergraduate degree in a field of Natural Resource Management or Environmental Education to apply.

Program Requirements

- 1) You must earn at least 30 credits (36 in Non-Project Option) in graduate courses approved by your advisor. At least 15 credits must be in courses numbered 700 or above.
- 2) You must complete graduate courses in at least three disciplines (e.g. forestry, wildlife, biology, or education).
- 3) You must complete one credit of NRES 750 and 795.
- 4) You must complete the core course requirements for each track (determined by the Faculty Advisory Council).
 - a) **Non-thesis Project Option**
 - 1) You must complete a minimum 30 credit Program of Study of graduate courses approved by your advisor which includes an independent study paper (NRES 796) for 3 credits related to your professional situation.

- 2) You must submit a bound copy of your independent study paper to the University Library.
- b) **Non-thesis Comprehensive Exam Option**
- 1) You must complete a 36 credit Program of Study of graduate courses approved by your advisor.
 - 2) You must pass a comprehensive written exam on coursework completed.

For more information go to www.uwsp.edu/natres/msnree or contact the Wisconsin Center for Environmental Education at 715-346-4176.

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
 WCEE = Wisconsin Center for Environmental Education
 WDMD = Web and Digital Media 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, Shipping and Mailing Assoc Adv.
Thomas J. Ahlers, Painter in Residential Living, 1999.
Terry L. Aittama*, Sr Lect in HPHD, Employee Wellness Coord, 1993. BS, UW-La Crosse; MPH, U of Michigan.
Helena Alden, Asst Prof in Sociology, 2007. BA, University of South Florida; MA, PhD, University of Florida.
Stephanie W. Aleman, Asst Prof of Anthropology and Ethnobotany, 2007. BA, MS, UW-Stevens Point.
Rosario Alemparte, Outreach Spec in Multicultural Resource Ctr, 2000. BA, MS, UW-Stevens Point.
Gail M. Allen, Library Serv Asst Adv, Instructional Materials Ctr Circulation Supvr, 1975. BA, UW-Oshkosh.
Jeff Allen*, Info Systems Resouces Support Tech Sr. in Continuing Education, 2004.
Stacey Allen-Bannach, Info Systems Network Support Tech-Senior in College of Natural Resources, 2001.
Cristina Altobelli, Acad Dept Assoc in Chemistry, 2001. BA, UW-Stevens Point.
Michael Arundson, Research Electronics Tech in Biology and College of Natural Resources, 1975. AA, Wis Indianhead Technical College.
Margaret N. Andersen, Teacher, Univ Child Learning and Care Ctr, 1982. BS, UW-Stevens Point.
Marty Andersen, Neale Hall Custodian in Residential Living.
Debra Anderson, Univ Serv Prog Assoc, Building Serv Office Mgr in Residential Living.
Eric M. Anderson, Prof of Wildlife, 1990. BS, Michigan State U; MS, PhD, Colorado State U. (G)
Jennifer Anderson-Richmond, Admissions Counselor, 2000. BA, UW-Stevens Point; MSE, UW-Oshkosh.
Monica Anderson, Admin Spec-No Prefix in Music, 2004. BA, Colorado College.
Scott Anderson*, Asst Men's Basketball Coach and Student Serv Spec in HESA, 2005.
Colleen M. Andrews, Sr Info Process Consult in Info Tech, ResNet Mgr, 1986. BA, Dominican College (UW-Parkside).
Colleen A. Angel, Library Serv Asst Adv, 1980. BS, MA, UW-Stevens Point; MLIS, UW-Milwaukee.
Deborah Anstett, Director of Dev in Foundation, 1999. BS, UW-Stevens Point; MS, UW-Madison.
Ernest Anthes, Sr Info Processing Consult, Network Mgr in Info Tech, 1989. BSEE, Marquette U.
Elia J. Armacanqui-Tipacti, Assoc Prof of Spanish, 2002. BA, U Mayor de San Marcos, Lima, Peru; MA, PhD, UW-Madison. (G)
David L.G. Arnold, Assoc Prof of English, 2000. BA, MA, PhD, U of California-Riverside. (G)
Fidelis B. Asuquo, Custodian Academic, 1984.
Darrell Austreng, Custodian Academic, 1990.
Greg Babino, Facilities Maintenance Spec in Facilities Serv, 2004.
Robert C. Badger, Prof of Chemistry, 1984. BS, Ohio U; PhD, U of Toledo. (G)
Kevin M. Bahr, Assoc Prof of Business and Economics, 1999. BBA, MS, MA, PhD, UW-Milwaukee. (G)

John P. Baker, Asst Prof of Psychology, 2007. BA, JD, U of Notre Dame; LLM, DePaul U; PhD, U of Illinois.
Ronald Baker*, Sr Clinical Nurse Spec in Health Serv, 1995. BS, UW-Stevens Point; BSN, MSN, UW-Oshkosh.
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)
Richard Baltzell, Custodian Academic, 2004.
Cindy Balz, Human Res Mgr I nPersonnel Serv, 2007. BS, Upper Iowa U.
Sheila Bannister-Gross, Univ Serv Prog Assoc, Credit Coord in Continuing Education, 1987. BS, UW-Stevens Point.
Lisa Ann Bardon, Assoc Prof of Education, 2003. BM, BS, PhD, U of Minnesota-Twin Cities, MA, U of St. Thomas (Minn.). (G)
Richard J. Barker, Prof of Spanish, 1988. BA, Hamilton College; MA, U of Iowa; PhD, U of Oregon. (G)
Rachael Barnett, Visiting Asst Professor in English, 2005. BA, Santa Clara U; MA, PhD, U of Washington-Seattle. (G)
Tobias G. Barske, Asst Prof of German and Applied Linguistics, 2006. BA, U of Regensburg, Germany; MA, U of Illinois at Urbana-Champaign. (G)
Valerie H. Barske, Asst Prof of History, 2008. BA, Oglethorpe U; MA, PhD, U of Illinois at Urbana-Champaign.
Terese Marie Barta, Assoc Prof of Biology, 1997. BS, PhD, UW-Madison; MS, U of California-Riverside. (G)
Barbara A. Bartkowiak, Asst to Dean of College of Letters and Science, 1981.
Richard Bartosh, Environmental Health and Safety Officer in Safety and Loss Control Office, 2004.
Esther Bauer, Asst Prof of German, 2004. MA, Albert-Ludwigs-Universität (Freiburg, Germany); MA, MPhil, PhD, Yale U. (G)
Gregory P. Bauer, Distinguished Psychologist, 1988. BS, UW-Stevens Point; MS, PhD, Oklahoma State U. (G)
Sandra Bauman, Info Systems Network Support Tech Sr, Workstation Support Spec for College of Letters and Science, 1974. AD, North Central Technical College.
Karey Bayba, Admin Asst, Asst Teacher in Univ Child Learning and Care Ctr. BS, Northern Michigan U.
Mike Beacom*, Assoc Lect in Comm, 2005.
Larry Beck, Dir of Facility Serv, 1990. BS, Purdue U; MBA, U of Chicago.
Kimberly Becken, Outreach Spec and Office Mgr in WI Lakes Partnership, 1990. BS, MS, UW-Stevens Point.
David C. Becker, Instructional Spec in Violin/Viola at Aber Suzuki Ctr, 1994. BM, UW-Madison; MM, The Juilliard School.
Patti Clayton Becker, Prof in the Univ Library, Reference Coord, 1993. BS, UW-Stevens Point; MS, Columbia U; MA, Drew U; PhD, UW-Madison.
Susan Becker*, Assoc Lect in Health Sciences, 2007.
John Bedard, Custodian Academic, 1995.
Brent Bednarek, Instrumentation Spec in Paper Science and Engineering, 2008.
Margaret Beeber, Advising Coord in Education, Teacher Certification Officer, 1989. BS, UW-Stevens Point.
Robert B. Beeken, Prof of Physics/Astronomy, 1980. BA, Western State College of Colorado; MS, Ohio U; PhD, U of Iowa. (G)
Robert A. Bell, Prof of Biology and Water Resources, 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.
Susan M. Bender, Assoc Prof of Music-Voice, 2003. BME, U of Iowa; MM, U of Maryland College Park. (AG)
Barb Bengsch*, Financial Spec 3 in Accounts Receivable, 1982.
Julie Benson, Univ Serv Prog Assoc , Records Spec in Registration and Records, 1986. BS, UW-Stevens Point.
Kathryn Bentley*, Assoc Lect in Comm, 2005. BA, UW-Stevens Point.
Daniel Berger, Info Sys Technical 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. (AG)
Thomas Bertram, Residence Hall Director in Smith Hall, 2008. BS, MS, UW-Oshkosh.
Raffi Besalyan, Asst Prof of Music, 2008. BM, MM, DMA, Yerevan "Komitas" State Conservatory. (G)
Danielle Beschta, Oper Prog Assoc in Conference and Reservations.
Cheryl Bever*, Office Oper Assoc in Information Technology, 2002.

- Michael Bialas**, Assoc Outreach Spec in Continuing Education.
- Karyn L. Biasca**, Prof of Paper Science and Engineering, 1989. BS, U of California, Los Angeles; MS, PhD, Institute of Paper Chemistry. (G)
- Paul J. Biersack**, Craftworker Supvr in Facility Serv, 1984.
- Shelby Billeb***, Advisor in Collaborative Degree Program, 2004.
- John J. Birrenkott**, Asst to the Vice Chancellor for Student Affairs, Interim Coord in Continuing Education, 1976. BS, UW-Stevens Point; MBA, UW-Oshkosh.
- Pat Birrenkott***, Student Status Examimer, Graduation Auditor in Registration and Records, 1994.
- Steven A. Bjella**, Prof of Music-Violin, 1991. BM, MA, U of Iowa. (G)
- Diana K. Black**, Assoc Prof of Graphic Design in Art & Design, and Chair of Art and Design, 2002. BFA UW-Milwaukee, MA, MFA, UW-Madison.
- John C. Blakeman**, Asst Prof and Chair of Political Science, 2003. BA, Wake Forest U, MSc London School of Economics (U of London), PhD, U of Virginia.
- Frances Blanchard**, Prog Coord, Graduate Fellowship in Res Environ Educ at Treehaven, 2009. BA, Metro State College of Denver.
- Patrick Bloom***, Head Baseball Coach, and Assoc Lect in HESA. 2003. BS, UW-Stevens Point; MS, Miami U (Ohio).
- Colleen H. Boardman***, Univ Serv Assoc 2 in Continuing Education, 2006. BS, UW-Stevens Point.
- Karin Bodensteiner**, Assoc Prof of Biology, 2007. BA, Luther College; MS, UW-Madison; PhD, Colorado State U.
- Alan G. Boelk**, Head Men's and Women's Swimming Coach, Assoc Lect in HESA, 1997. BS, MA, U of Minnesota.
- Amy Zlmen Boelk**, Asst Prof of Sociology, 2000. BSW, UW-Eau Claire, MSSW, UW-Madison. (G)
- Judith W. Bond**, Prof of Music, Coord of Music Ed, 1994. BA, Grinnell College; MA, PhD, U of Minnesota. (G)
- N. Al Bond**, Sr Info Processing Consult, College Tech Support Spec in Geography/Geology and WDMD, 1998. BS, West Virginia U; MS, Southern Illinois U at Carbondale.
- Virginia Bondeson***, Lect in English as a Second Language Program.
- Janis J. Borski**, Operations Prog Assoc in Info Tech, 1972.
- Mary Bowden**, Office Oper Assoc in Univ Store.
- Juliane Meyer Bowling**, Research Prog Mgr I in Soil and Water Resources Disciplines, 2007. BS, MS, UW-Madison.
- Nathan Bowling**, Asst Prof of Chemistry, 2006. BS, Valparaiso U, PhD, UW-Madison.
- Mary R. Bowman**, Assoc Prof of English, 1998. BA, College of William and Mary; MA, PhD, Duke U. (G)
- Amy Jo Boyd***, Licensed Practical Nurse 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)
- Nancy Bozek**, Dir of Wisconsin Woodland Owner's Association in the College of Natural Resources, 1995. BS, UW-Stevens Point.
- Peter Brandl**, Painter, 1991.
- Thomas Brandl**, Painter, 1996.
- Lori Brandt***, Advisor in Collaborative Degree Program, 2008. BA, UW-Green Bay.
- Daniel Breining**, Assoc Prof of Spanish, 1999. BA, UW-Stevens Point; MA, U of New Mexico; PhD, UW-Madison. (G)
- Jutta Brendel**, Lect in English as a Second Language Prog, 1995.
- Denise Brennecke**, Cafeteria Mgr in College of Professional Studies.
- Kathy Breseman**, Human Resource Asst in Military Science, 1986.
- 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**, Watson Hall Custodian in Residential Living, 2002.
- Thomas Brown***, Architect, Sr Lect in Interior Architecture, 1999. BArch, Catholic U of America.
- Amy Brugge**, Asst Athletic Trainer/Lect in HESA, 2005. BS, Minnesota State U Mankato; MS, Indiana U.
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204 Faculty and Staff

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206 Faculty and Staff

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- John O. Smith**, Professor of Art and Design, 1998. BA, MA, MFA, U of Iowa. (G)
- Stephen Trovillion Smith**, Assoc Prof of Theatre and Dance, 2000. BA, U of Missouri-Kansas City; MFA, DePaul U.
- Dorothy H. Snyder**, Assoc Outreach Specialist in Continuing Education, 1978. BS, UW-Stevens Point.
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- Diane M. Stelzer**, Acad Dept Assoc in Geography/Geology, 1969.
- Jeffrey P. Stephens**, Asst Prof of Theatre and Dance, 2007. BA, U of Oklahoma; MA, Oklahoma State U; PhD, The Ohio State U.
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- Richard G. Stephens**, Chemist Adv, Inorganic Lab Mgr for Water and Environ Analysis Lab, 1975. BS, UW-Stevens Point.
- Edward M. Stern**, Prof of Biology, 1977. BA, MS, U of Texas at El Paso; PhD, Louisiana State U and Agricultural and Mechanical College. (G)
- Kari L. Stetler**, Lead Teacher in Univ Child Learning & Care Ctr, 2005.
- Arthur T. Stevenson**, Lect in Physics and Astronomy, 2003.
- Sarah Stillwell**, Asst Dir in Admissions, 1999. BA, UW-Stevens Point.
- Alice Stoffel**, Oper Prog Assoc, Supplemental Book Mgr in Univ. Store, 2007. BA, UW-Stevens Point.
- Justin Stoffel***, Asst Swimming Coach in HESA, 2007.
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- Nancy L. Stokosa**, Acad Dept Assoc in Physics and Astronomy, 1981.
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- Gary Stoltenberg**, Medical Technologist Sr in Health Serv.
- Edward Stoltz**, Custodian.
- Robert J. Stolzer**, Prof of Painting/Drawing, 1990. BFA, Rutgers The State U of New Jersey New Brunswick Campus Mason Gross School of Art; MFA, Temple U-Tyler School of Art. (G)
- David Story**, Asst Prof in Music-Strings, 2006. BM, UW-Stevens Point.
- Robert Stowers**, Prof of Art, 1986. BA, Michigan State U; MA, MFA, U of Notre Dame. (G)
- John Strassburg***, Sr Instructional Spec, Accompanist in Theatre and Dance, 1996.
- Dennis Streeter**, Heat, Ventil, Air Cond Spec in Facility Serv, 1997.
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- Margaret Strong**, Rehab Spec in Asst Tech in Univ Library, 2007. BS, UW-Stevens Point; MS, UW-LaCrosse.
- Sybil Strupp**, Instr in the Univ Library, 1976. BA, UW-Whitewater; MLS, Indiana U.
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- Shari Summers***, Coord of Freshman Interest Group (FIG) Prog, 2003.
- Qiang Sun**, Asst Prof of Biology, 2007. BS, MS, Xiamen U; PhD, Tohoku U. (G)
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- Anne M. Swenson**, Library Serv Asst Adv, University Library Acquisitions, 1983.
- Janis Swinford**, Acad Dept Assoc in History, 1986.
- Kim Szcuybalka**, Custodian.
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- Stanley W. Szczytko**, Prof and Coord of Fisheries and Water Resources, Intern Dir, 1979. BS, Evangel College; MS, PhD, North Texas State U. (G)
- Ken Szymanski**, Head Upholsterer in Residential Living, 1981.
- John E. Szymkowiak**, Custodian Residential Living, Floor Care Spec, 1979.
- Michael J. Szymkowiak**, Facilities Maintenance Spec Adv in Residential Living, 1976.
- Robert Tabor**, Dir of Personnel Services, 2002. BS, Rochester Institute of Technology; MA, State U of New York at Plattsburgh.
- Susan T. Talarico**, Assoc Prof of Mathematical Sciences, 2001. BA, U of St. Francis; MA, PhD, Northern Illinois U. (G)
- Mary L. Talbot**, Teacher, Univ Child Learning and Care Ctr, 1979. BS, Rockford College.
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210 Faculty and Staff

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- Ron Zimmerman**, Dir of Schmeckle Reserve, 1977. BS, MS, UW-Stevens Point. (AG)
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- Michael R. Zsido**, Asst Dir of Building Serv in Residential Living, 1985. AS, Fox Valley Technical Institute; BS, UW-Stevens Point.
- Peter Zuge**, Info Security Officer, Info Systems Tech Serv Sr, 1996. BS, UW-Stevens Point.
- Dennis Zylkowski**, Custodian Academic, 1996.
- Kenneth Zynda**, Motor Vehicle Operator Light in Recycling, 1999.
- Linda Zywicki***, Univ Serv Assoc 1, Work Order Coord in Residential Living, 1972. AD, North Central Technical College.

Emeritus Faculty

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Mary Ann Baird, 1962-2000
Robert F. Balas, 1976-2000
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Nancy E. Bayne, 1975-2006
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John M. Bernd, 1964-1983
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Lynn A. (Red) Blair, 1965-1997
Melvin Bloom, 1966-1988
Thomas K. Bloom, 1968-2005
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Robert O. Bowen, 1966-1995
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Eleanor Brush, 1989-2001
Robert O. Brush, 1989-2003
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John H. Johnson, 1965-1990
William A. Johnson, 1966-1997
James J. Johnston, 1970-1996
Agnes A. Jones, 1956-1988
Richard B. Judy, 1985-1999
Marjorie Phelps Gerson Kampenga, 1966-1983
Robert W. Kase, 1986-2007
Peter L. Kasson, 1966-1995
Norman E. Keats, 1956-1988
William (Pete) Kelley, 1969-2002
Dorothy Kennedy, 1990-2001
Hyun Kim, 1975-2005
William H. Kirby, 1968-2005
Lowell L. Klessig, 1974-2001
Garry N. Knopf, 1966-1998
Robert J. Knowlton, 1962-1992
Daniel Kortenkamp, 1966-2002
Irving L. Korth, 1962-1986
Frederich A. Kremple, 1948-1985
Gregory S. Kulas, 1961-1997
George C.T. Kung, 1969-2001
Sonja L. Kung, 1972-1998
Hildegard R. Kuse, 1957-1990
Charles H. La Follette 1968-1991
C. Marvin Lang, 1964-2005
John E. Larsen, 1964-1995
Donald G. Last, 1970-2000
Keith F. Lea, 1968-1986
Alan D. Lehman, 1963-1986
Warren J. Lensmire, 1965-1985
L. Wayne Lerand, 1966-1997
Neil S. Lewis, 1971-2003
Suzanne Lewis, 1971-2001
Matthew J.P. Liu, 1961-1997
Ronald A. Lokken, 1964-1999
Charles A. Long, 1966-1996
Sandra Madison, 1990-2007
Janet L. Malone, 1981-1999
Philip R. Marshall, 1979-1989
Thomas E. McCaig 1966-1994
Bonnie McDonald, 1964-1982
Gerard T. McKenna, 1989-2005
William Mark McKinney, 1963-1988
Paul E. Mertz, 1969-2006
Gary C. Meyer, 1981-2003
William H. (Bill) Meyer, 1968-2002
Joel C. Mickelson, 1958-1990
Clarence J. Milfred, 1970-1997
Darvin L. Miller, 1971-1993
Marge M. Miller, 1971-1992
Robert W. Miller, 1973-2003
James L. Missey, 1966-2000
John E. Moffatt, 1974-1999
Richard L. Montgomery, 1966-1998
James Moe, 1970-2008
James S. Moore, 1975-2003
John H. Moore, 1968-1995
Nancy N. Moore, 1968-2000
Robert P. Morris, 1969-2000
Delmar C. Multhauf, 1966-1988
Dawn R. Narron, 1967-1992
Dennis B. Nash, 1970-2002
Lyle E. Nauman, 1971-1996
Russell S. Nelson, 1963-1992
Russell L. Oliver, 1964-1989
Duane A. Olson 1966-1994
John J. Oster, 1962-1992
Edith A. Pankowski, 1969-1998
Marshall E. Parry, 1967-1997
Donald J. Pattow, 1965-2005
Barbara Paul, 1967-2002
Justus F. Paul, 1966-2004
Patricia J. Paul, 1969-2000
William G. Paul, 1969-1999
Neil F. Payne, 1975-1998
Stephen P. Pistono, 1968-2000
Judith E. Pratt (Honeck), 1973-1995
Jay R. Price, 1975-2001
Orland E. Radke, 1956-1985
Douglas D. Radtke, 1966-1995
Shirley A. Randall, 1968-1986
Alice Randlett, 1970-2002
Phyllis A. Ravey, 1952-1975
Jack K. Reed, 1967-2006
Larry Riggs, 1977-2008
Vera Rimnac, 1963-1990
Theodore S. Roeder, 1968-1994
Robert G. Rossmiller, 1965-1984
Gerald Rous, 1974-2008
Charles Rumsey, 1966-1991
Hans Georg Schabel, 1973-2006
Francis L. Schmitz, 1968-1996
Richard C. Schneider, 1962-1988
Lynette L. Schuler, 1971-2005

Jan J. Seiler, 1969-2006
 Mark R. Seiler, 1969-2005
 Byron H. Shaw, 1968-2000
 Donald L. Showalter, 1976-2006
 Gail Skelton, 1969-2003
 William Skelton, 1969-2002
 David Lyle Smith, 1967-1996
 Raymond A. Sommers, 1962-1995
 Zofia A. Olenka Soroka, 1964-1985
 N. Earl Spangenberg, 1971-2006
 Marjorie J. Spring, 1965-1983
 Bruce Staal, 1970-2002
 David J. Staszak, 1980-2006
 Ruth S. Steffen, 1965-1995
 Ronald J. Steiner, 1968-1997
 Isabelle Stelmahoske, 1965-1994

Donald F. Stetzer, 1968-1990
 Daniel L. Stewart, 1971-2002
 William A. Sylvester, 1969-1981
 Stephen J. Taft, 1969-2004
 Allen G. Taylor, 1964-1997
 Marvin W. Temp, 1965-1995
 Virgil A. Thiesfeld, 1965-1999
 John M. Thomas, 1963-1992
 H. Howard Thoyre, 1962-1996
 Kirby L. Throckmorton, 1975-2004
 Adolph J. Zeke Torzewski,
 1968-1985
 Carole Van Horn, 1974-2007
 Steven D. Van Horn, 1972-2005
 John F. Vollrath, 1971-1999
 Hugh D. Walker, 1965-2005

Robert H. Weaver, 1961-1990
 Larry Weiser, 1972-2002
 Coralee Wells, 1968-2002
 Herbert G. Wenger, 1967-1985
 Margaret Whalen, 1975-2008
 Charley M. White, 1966-1993
 Carol Marion Wick, 1965-1991
 Bernard F. Wievel, 1947-1977
 Richard Wilke, 1976-2009
 Mary B. Williams, 1976-1993
 Leslie Wilson, 1990-2009
 William E. Witt, 1970-1998
 Diane J. Witte, 1977-1995
 David R. Wrone, 1964-1995
 Alan D. Young, 1969-2000

University Associates

The title of university associate is granted to colleagues from other institutions or agencies who are contributing academic services to this university.

Athletic Training:

James Banovetz Jr, Ph.D., M.D., Klasinski Clinic, Stevens Point;
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 Jen Day, PT, LAT, St. Michael's Hosp Phys Ther, St Pt;
 Sara Ebel, MS, LAT, Physical Therapy Assoc, St Pt;
 Jodi Cox, MS, LAT, St. Michael's Hosp Phys Ther, St Pt;
 James Deweerd, MD, Ministry Medical Group (retired), St Pt;
 Jeannen Gulenchyn, LAT, CSCS, McDonough Ortho, WRapids;
 Mike Gulenchyn, LAT, CSCS, McDonough Ortho, Wis Rapids;
 Krista Hafenbredl, LAT, St. Michael's Hosp Phys Ther, St Pt;
 Rick Henke, LAT, McDonough Ortho/Sports Med, Wis Rapids;
 John Jaeger, PT, St. Michael's Hosp Phys Ther, Plover;
 DJ Kearney, LAT, McDonough Ortho/Sports Med, Wis Rapids;
 Daniel Kraeger, DO, LAT, Ministry Medical Group, St Pt;
 Tom Lozier, MA, LAT, St. Michael's Hosp Phys Ther, St Pt;
 Bryan Pacyna, LAT, CSCS, St. Michael's Hosp Phys Ther, St Pt;
 Sara Pate, LAT, Riverside Hospital, Waupaca.

Biology:

James Banovetz Jr, Ph.D., M.D., Klasinski Clinic, Stevens Point; Sharon Maby, M.D., Pediatrics, The Marshfield Clinic; Mike Toney, M.S., Fish Biologist, Wis. DNR, Sturgeon Bay.

Communicative Disorders (Audiology):

Julie Berger, MS, Marshfield Clinic, Marshfield Center;
 Bob Broeckert, MS, Hearing Clinics Wis, Green Bay/Appleton;
 Catherine L. Conely, AuD, Aurora Sheboygan Clinic;
 Mark Conrad, AuD, ENT Specialists of Wis, Neenah;
 Michael Dahlke, AuD, ENT Assoc of North Cen Wis, Wausau;
 Kristin DePouw, AuD, BayCare Clinic, Green Bay;
 Lisa J. Esser, AuD, Affinity Health Systems, Appleton;
 Andrea Federman, AuD, BayCare Clinic, Green Bay;
 Thomas Fisher, AuD, ENT Assoc of North Cen Wis, Wausau;
 Becky Franz, MS, Rural Audiologists, Waupaca;
 Lisa Geisler, AuD, CESA 5- Educational Audiology;
 Cindy Grant-See, AuD, Marshfield Clinic, Marshfield Center;
 Jessica Grzeca, AuD, BayCare Clinic, Green Bay
 Donald Hansen, MS, Marshfield Clinic, Marshfield Center;
 William Holzhaeuser, MS, ENT Professionals, Ashland;
 Nancy Huebler, MA, Marshfield Clinic-Chippewa Falls Center;
 Julie Kessler, AuD, Ministry Health Care, Stevens Point;
 Erin Krueger, AuD, ENT Specialists of Wisconsin, Neenah;
 Tim Kuhn, MS, Marshfield Clinic, Wausau Center;
 James Lombardo, MS, Marshfield Clinic, Wausau Center;
 Leslie Mosier, AuD, Agnesian Health Care, Fond du Lac;
 Nancy Puetz, AuD, Wausau Public Schools;
 Bonnie Stanislawski, AuD, Avada, Wisconsin Rapids;
 Patti Todd, AuD, Ministry Health Care, Stevens Point;
 Robert Treptow, AuD, Marshfield Clinic, Wausau Center;
 Douglas Wood, MS, Marshfield Clinic, Marshfield Center.

Communicative Disorders (Speech/Language):

Michelle A. Bjella, MS, Achievement Center, Stevens Point;
 Pamela K. Brayton, MS, Therapies Plus, Wisconsin Rapids;
 Karen L. Carl, MS, Genesis Rehab Serv, Marshfield;
 Nina E. Cass, MS, Weyauwega Public Schools;
 Sue Chapman, MS, Achievement Center, Stevens Point;
 Kim Daniel, MS, Shawano Medical Center, Shawano;
 Bernadette Donovan, MS, Howard-Suamico Public Schools;
 Amy Fisher, MS, Wisconsin Rapids Public Schools;
 Tom Forster, MS, Wisconsin Rapids Public Schools;
 Susan Frasch, MS, Tomorrow River Public Schools, Amherst;
 Chris Freiberg, MS, Wausau Public Schools;
 Joyce Fuehrer-Mancl, MS, Stevens Point Public Schools;
 Meghan Gallagher, MS, Shawano Medical Center, Shawano;
 Anna Gresch, PhD., Therapies Plus, Wausau;
 Amy Hamin, MS, Wisconsin Rapids Public Schools;
 Emmy Jo Kasat, MS, Therapies Plus, Wausau;
 Katherine Kester, MS, Wisconsin Rapids Public Schools;
 Kerry M. Kluck, MS, Stevens Point Public Schools;
 Kimberly Krohn-Rick, MS, Aspirus Inc. Wausau Hospital;
 Cynthia Kuka, MS, MJ Care, Waupaca;
 Kathleen Marsceau, MS, Aspirus Inc. Wausau Hospital;
 Dorothy Olson, MS, DC Everest Public Schools;
 Sara Piper, MS, Green Bay Public Schools;
 Deb Pope, MS, Stevens Point Public Schools;
 Ann Pourchot, MS, Stevens Point Public Schools;
 Lea Ratajczyk, MS, Aspirus Inc. Wausau Hospital;
 Mary Lee Reineking, MS, Stevens Point Public Schools;
 Colleen Sazama, MS, Wisconsin Rapids Public Schools;
 Holly Sperberg, MS, Stevens Point Public Schools;
 Cathie Steffen, MS, Stevens Point Public Schools;
 Teresa Stoltenberg, MS, Stevens Point Public Schools;
 Denise VanDenHeuvel, MS, Stevens Point Public Schools;
 Susan Voeks, PhD, Wisconsin Veteran's Home, King;
 Vivian Weber-Pagel, MS, Stevens Point Public Schools;
 Christine Witt, MS, Wisconsin Rapids Public Schools;
 Heather Witt, MS, Aspirus Inc, Wausau Hospital;
 Marilyn Workinger, PhD, Marshfield Clinic, Marshfield Ctr.
 Mary Wykle, MS, Stevens Point Public Schools;
 Amy Zdroik, MS, Stevens Point Public Schools;
 Jackie Zuelke-Karch, MS, Tomorrow River Schools, Amherst.

Education cooperating teachers for 2008.

Adams: Ellen Faga, Terry Harvey-Beversdorf, Jessie Lehr, Stacey Tolley; **Antigo:** Carrie Baumgart, Terrie Brandt, Denise Madison, John Schimmels, Sara Schlieve, Larry Stookey, Mary Winski; **Appleton:** Pauline Allen, Diane Antoon, Greg Austin, Melissa Beyrel, Beverly Bozile, Candi Breitengross, Frank Burns, Katie Busch, Kari Campshure, Carol Chroge, Deb Cox, Nancy Crockford, Andrew Cross, Melissa Daane, Jill Geerts, Jennifer Gilbert, Justin Heitl, Kathy Jacobson, Carol Kaufman, Tanya Lange, Lisa Larson, Jenna Linskens, Sarah Mamocho, Doreen McCoy, Kevin Meidl, Sarah Pope, Stephanie Raatz, Missy Rosiejka, Curt Salm, Mary Schemm, Susan Schorer, Lisa Sprangers, Sheila Stojak, Jan Wells, Terri Woodkey, Beth Wulf, Amy Zewicki; **Apple Valley, MN:** James

214 University Associates

Funston, Tracy Hansen, Jill Kuzma, Julie Serena; **Arrowhead:** Del Kaatz; **Ashwaubenon:** Allison Baganz, Brian Carlson, Amy Kupsh, Constant Nolan, Kevin Phillips, Amy Steapack; **Auburndale:** Wanda Bauer, Sue Fowler, Debbie Heidmann, James Johnson, Dawn Urban, Steve Voss; **Baraboo:** Kim Bockenbauer, Deanne Lensert, Susan Strutz; **Barron:** Kim Frandsen; **Beaver Dam:** Kelly Braker, Elizabeth Heinze, Carmen Scott, Jeff Slayton; **Beloit:** Sarah Cary, Shawn Fredericks; **Birchwood:** John Telitz; **Bowler:** Mary Jo Kawalski, Joyce Shest, Heidi Teich, Deb Wall; **Burlington:** Carrie Fidler; **Cedarburg:** Clay Wachholz; **Chicago, IL:** Nicole Hebson, Haleemeh Mikbel, Brian Telles, Manuel Valderrama; **Colby:** Christine Frazier, Michele Hagen, Mike Sieracki; **Coleman:** George Leitinen, Mark Trepanier; **Crandon:** Dave Ferk, Agnes Keller; **Crivitz:** Julie Bushmaker; **D.C. Everest:** Rhyn Aler, Christian Ammon, Joanna Bailey, Mark Bohlman, Rhye Brown; **Bruce Chopp,** Marilyn Christianson, Luke Coenen, Lois Dassow, Marla Day, Paul Froom, Nancy Gajewski, Tonya Geiger, Thomas, Grossklaus, Yvonne Hoffman, Margaret Jerz, Scott Jirik, Becky Kintop, Julie Klinner, Lucas Kollross, Mary Beth Kulaf, Michelle Marquardt, Jason McFarlane, LeRoy Miller, Diane Mirasola, LuAnne Nelson, Dorothy Olson, Dawn Olstad, Glenn Olstad, Greg Peterson, Mike Plaza, Carol Plaza, Bree Sandquist, Tim Strehlow, Angie Strick, Theresa Sybeldon, Pete Tabor, Mike Teuke, Wendy Torgerson, Kang Bao Xiong; **De Forest:** Debbie Evans, Terri Lattimer, Beverly Schultz, Debi Shepherd-Wundrow, Karen Ziegler; **Denmark:** Bill Denee, Karen Johnson; **De Pere:** Chris Anderson, **Dodgeland:** Kay Coates; **Eagan, MN:** Jill Kuzma, Julie Serena; **Eddyville-Blakesburg, IA:** Tom Doyle, Melinda Sinnif; **Ellsworth:** Aleisa Behnke; **Elmbrook:** Mary Bigus; **Fond du Lac:** Melissa Batog, Timi Emmer, Kayla Lund, Ashley Siewart; **Fort Atkinson:** Abbey Tackett; **Fox Point:** Mindy Makinster; **Freedom:** Ed Maxwell; **Germantown:** Kim Monday; **Gilman:** Terese Oberle, Kurt Rhyner, Robin Rosemeyer; **Glenwood City:** Joanie Branigan, Amy Schutz; **Grand Rapids, MI:** Cara Gardner; **Green Bay:** Stormee Genz, Corri Gossen, Rob Greenwald, Alicia Kesler, Lynn LaBar, Amy Manning, Penny McLeod, Gene Ostert, Sara Piper, Tamara Schick, Rosie Sylvester, Crystal Trejo, Sandy Ward, Ada Weber, Lori Weuve, Terry Wickman; **Hartford:** Gene O'Brien, David Vandermeuse; **Hartland-Lakeside:** Anita Allwardt; **Hilbert:** Mike Breckheimer, Matt Kuhn; **Hortonville:** Crystal Gorwitz, Cheryl Richardson; **Howard-Suamico:** Bernadette Donovan, Heather Larson, Tracy Momaerts; **Hudson:** Kim Warneke; **Iola-Scandinavia:** Terrell Bonnell, Jessica Wennesberg, Stacey Wester; **Janesville:** Jeff Deinenger, Lisa Hebert, Bob Kaster, Jennifer Seisser, Michol Startup, Brad Troeger, Carol Tyriver; **Johnson Creek:** Juanita Edington; **Kettle Moraine:** Chad Buchholz, Lynn Couzens, Barbara Jeanne Wagner; **Kimberly:** Melissa Fontaine, Nancy Harrington, Amy Karls, Becky Kitchen; **Kohler:** Jessie Good; **Lac du Flambeau:** Bob Schenkenberg; **Little Chute:** Karen Jones, Tiffany Scheeler; **Manchester, England:** Ann Castle; **Manitowoc:** Gail Bailey, Jodi Bremer, Cory Erlandson, Kay Grady, Micah Hoffman, Marie Hurley, Mimi Munch, Tim Smith, Virginia Vraney; **Marshfield:** Jennifer Arndt, Cathy Baltus, Brenda Baur, Romelle Byers, Bill Davis, Kevin Fadrowski, Paul Foegen, Dennis Goettl, Randy Hartwig, Rita Hauke, Bruce Jensema, Cathryn Koepanen, Richard Lamer Mayer, Karen Ott, Deb Perkl, Greg Reiersen, William Ruiker, Pam Weiss, Tami Wolff, William Zuiker; **Mauston:** Marlene Barth, Matt Regan; **McFarland:** Bill Garvey, Meredith Stensven; **Medford:** Jayne Haenel, Stacy Leonard, Diane Nelson, Tracy Schumacher, Lisa Shear, **Menominee Indian:** Katie Hietpas, Molly Jacobson; **Menomonee Falls:** Jane Julka, Cris Kerwin; **Merrill:** Scott Arneson, Gina Nocco, Sally Psund, Renee Sabey, Kari Strebeg, Tom Tourtillott, Karen Watzlawick, Glenda Yonke; **Middleton-Cross Plains:** Debbie Diamond, Lisa Forman, Lynne Wymore; **Milwaukee:** Page Brown, Kathlene Flessert, Robbie McCloud, Vivian Vivas; **Monona Grove:** Carl Dabick, Stephanie Ganshert, Maureen McCarty, Ryan Walter; **Montello:** Chuck Harsh, Ryan Napralla; **Mosinee:** Jean Boettcher, Cheryl Brimmer, Deb Christman,

Carly Connor, Rebecca Davies, Carla Dul, Leslie Felch, Todd Felch, Willaim Giese, Sara Kaczor, Kati Meier, Greg Mielke, Kim Mueller, Bobbi Jo Olson, Kim Olson, Barb Rademaker, Robyn Schneider, Dan Schoepke, Barb Simon, Victor Voigt, Kelly Wirkus, Crystal Zastrow, Jerry Zoltowski; **Necedah:** Sarah Marslender **Neenah:** Vicki Dahr, Susan Johnson, Sara Kokko, Andra Mory, Chas Proschenske, Cindy Riha, **Nekoosa:** Amy Reardon, Julie Stoffel; **New Holstein:** Pam Steiger, Therese Wilk; **Northland Pines:** Faith Schneider; **Oak Creek:** Michelle Kanezewski; **Oconto:** David Niswonger, Kari Brunette; **Oconto Falls:** Marilyn Magnin, Sue Malingowski; **Omro:** Deb Nelson, Susan Seich, Pat Sphatt; **Oregon:** Julie Wulff; **Oshkosh:** Cheryl Almborg, Mary Beth Connors, Cathy Jankowski, Amy Jodarski, Denise Schlaak; **Pardeeville:** Chad Hineman, John Lindquist; **Phillips:** Brent Zierer; **Pittsville:** Kelly Look, Gina Zickert; **Plymouth:** Linda Jens, Dan Knaus; **Port Edwards:** James Hill, Kay Lavey, Tim Miller, Ann Pickett, Beth Willcome; **Portage:** Brian Conner, Mary Kamrath, Vietta Kampen, Holly Kobza, Connie Schlimovitz, Jeff Weissinger; **Pulaski:** Judy Handstedt; **Racine:** Dawn Framstad, William Sturino; **Reedsburg:** Amy Schultz; **Rhineland:** Amy Johnson, Jon Koch, Lisa Kroll, Bill Makris, Dan Millot, Amy Rogers, Amy Scholy, Joan Schutts, Bryan Young; **Rice Lake:** Rebecca McCann, Sandra Ohr; **Ripon:** Sue Molker; **Rochester, MN:** Amy Kram; **Rosholt:** Brady Huebner, Kristin Marquard, Laurie Reiser, Jay Spoerl, Shary Walkush; **Sauk Prairie:** Patricia Breunig, Jennifer Kindschi, Jill Stone-Briske, Anita Thayer, Jane Walters; **Seymour:** Dan Brice, Toni Goodall, Connie Sturzl; **Shawano:** Karen Barnes, Dee Dee Koehler, Steve Linssen, Curt Preston, Mary Anne Schoenike, Cheryl Schwartz; **Sheboygan:** Marikay Aria, Jill Rechtfertig, Jon Wellna; **Sheboygan Falls:** Doug Johnson; **Shorewood:** Michelle Albertson; **Slinger:** Mike Hamm, Joy Nelson, Ellen Schmidt; **South Milwaukee:** James Grassl; **Spencer:** Denny Christensen, Michael Endress, Linda Legrand; **Stevens Point:** Vic Akemann, Liz Anderson, Allison Bancker, Karl Bancker, Kelly Beadles, Mary Behm, Cheryl Behnke, Kari Beisenstein Fink, Dave Belk, Jackie Beversdorf, Doris Blanche, Kim Boden, Mark Bohanski, Mary Bohlman, Heather Bolton, Jennifer Bowling, Maureen Brocken, Donna Brooks, Milanne Buchholz, Patty Bushey, Brett Carey, Kelly Caulfield, Greg Chelcun, Jody Cieslewicz, Barb Clementi, Lois Cose, Lynn Crosby, Sandy Davis, Sally Dehlinger, Marguerite Dietrich, Lanae Domres, Trish Dow, Ellen Dunahee, Karen Dunn, Mark Her, Denise Enders, Molly Eron, Denis Ertheim, Lynn Evans, Mike Feltz, Dan Fink, Tori Flury, Karen Foss, Linda Fosso, Dan Gagnon, Patrick Galligan, Melissa Giles, Jen Graboski, Dave Grabski, Carolyn Greenlee, Jeanette Handrich, Dave Hanks, Laurie Hansen, Jane Hansen, Robert Hardina, Rose Helm, Jessica Hensley, Kris Hesch, Marla Hintze, Dean Hodsdon, Crystal Holmbeck, Sue Jacobson, Julie Johnson, Shelly Johnson, Kelly Jung, Janet Jurgella, Michelle Kempe, Cindy Kiepert, Derek Kirklewski, Angie KIRSTEATER, Lori Knepfel, John Knowlton, Julie Kolarik, Sue Kollross, Paul Konicheck, Bill Konieczki, Kristine Kratzke, Kathy Kruthoff, Colleen Kruzicki, Mary Ladron, Marilyn Lamb, Lori Lampert, Karla Landwer, Gerri Lardinois, Mike Lazars, Tommye Leafgren, Laura Leahy, Nancy Lensmire, Janet Lenze, Mary Liebau, Mary Lindstedt, Margaret Linzmeier, Paula Marciniak, Lyn Martens, Cathy Martin, Karen Martzahl, Sue Mawbey, Pete McAdams, Lynn McGauley, Lisa Mecurio, Diane Merrill, Cris Miller, Marcy Mirman, Sara Mitchell, Jeff Mlsna, Kevin Morrissey, Armin Nebel, Richard Olson, Christmary Pacyna, Donnell Pagel, Barb Peterson, -Gee Pope, Joan Precourt, Amy Randazzo, Charlotte Roberts, Jessica Roble, Anne Rogalski, Paula Rose, Monica Sankey, Wayne Sankey, Jill Schaefer, Alicia Skarsten, Nancy Smith, Cindy Solinski, Holly Sperberg, Laurie Sroda, Deb Stafford, Val Stanenas-Wacker, Cathie Steffen Karen Stephani, Terri Stilson, Ann Stoffel, Gail Stout, Linda Stroik, Sherry Terpstra, Kraig Terpstra, Kelly Thomas, Rod Tillman, Carol Topley, Jodi Tuskowski, Jan Tuszka, Scott Ullman, Steve Van Ark, Denise Van Den Heuvel, Kurt Van Tiem, Linda VanderLoop, Sue VanDresser, Carrie Vrieze, Christine Waechter, John Weisbrod, Ann Wenzel, Sandy Weyers, Cathy

Williamson, Jane Yenter, Lynn Zdroik, Shannon Zdroik;
Stevens Point Area Catholic: Ann Ananiadis, Guy Gehrmann, Bob Gramowski, Brenda Krzykowski, Michael Schmoll, LeeAnn Stremkowski, Marian Trzebiatowski, Michelle Wojciehowski; **Stratford:** Troy Bargander, Connie Jonett, Pat Langton, Betsy Miller; **Sun Prairie:** Jared Acker, Sue Ball, Ronda Bernhardt, Brenda Hemingway, Jill Kullmann; **Suring:** Amy Williams; **Tempe, AZ:** Mary Gatson, Sandy Millan; **Tomahawk:** Dottie Anderson, Stacy Bolder, Shelly Casey, Todd Frederickson, Linda vanStrydonk; **Tomorrow River:** Ron Davis, Tom Fochs, Kathy Garske, Sharon Hill, Stefanie Lewis, Kathleen Nicholson, Stan Shufelt, Barb Toftum, Allan Wendland; **Tri-County:** Den Franz, Tina Krummel, Kevin Seegert; **Troy, IL:** Lou Ann McCoy; **Two Rivers:** Lynn Fabian, Dawn Straef; **UWSP H. R. Godfrey Child Learning Center:** Marge Andersen, Susie Sproue, Mary Talbot; **Verona:** Ken McCuskey, Dave Otterson; **Watertown:** Sandra Haack, Karen Williams; **Waukesha:** Pat Gardner; **Waunakee:** Kristy Foree, Chandra Kalscheur, Jason Kaltenberg, Heather Pellino, Jodi Ryan; **Waupaca:** Shannon Anderson, Dale Feldt, Roger Larson, Amy Mead, Glenn Parmalee, Dan Wolfgram, Kay Visentin; **Wausau:** Erika Anderson, Mike Berglund, Tina Betry, Phillip Buch, Brian Buege, Shannon Charbarneau, Dave Coenen, Stacey Delforge, Kerry Euting, Carla Gerstenberger, Glover Gale, Tanya Heuser, Lisa Jindrich, Michele Kettner, Julie Kolbeck, Renee Kreusel, Dan Larson, Bonnie Lemke, Angela Lenselink, Pam Levra, Randy Luebbe, Bruce Maatta, Laurie Maegli, Doris Martin, Emily Martin, Anne Merryfield, Michelle Mertes, Brooke Mesenberg, Cindy Meyering, Justine Miller, Paul Nelson, Joan Pagel, Kim Pearson, Michelle Peters, Patty Pond, Dan Prihoda, Kara Rokoski, Debra Ralph, Robin Scherr, Marsha Stella, Nancy Vraspir, Maureen Wagers, Lynette Weis, Rick Wicklund, Deb Zuelke; **Wautoma:** Crystal Bielmeier, Tim Borud, Fay Bray, Diane Dowell, Mary Ann Hudziak, Pat Wolff; **Wauwatosa:** Donna Koebler; **West Allis:** Joyce King-McIver; **West Bend:** Jackie Drover, Kristin Ketzine, Zulfia Penteman; **West De Pere:** Kay Cota, Sheila Kohl, Dana Lex, Brenda May; **Westfield:** Cheryl Flyte, Andrea Kerkenbush; **Westlake, OH:** Elena Prohaska, Donna Richards; **Weyauwega-Fremont:** Melinda Brace, Roger Schmideke; **Whitnall:** Craig Austin, Mary Mikich; **Wild Rose:** Paula Ausloos, Debbie Miller, Connie Riedasch; **Winneconne:** Kimberly Zietlow; **Wisconsin Dells:** Roxanne Biffert, Erin Michalsky; **Wisconsin Rapids:** Cathy Anhalt, Lisa Black, Lynn Borski, Bonnie Duchac, Denise Goetter, Gail Grzadziewski, Amy Heitzman, Missy Henneman, Jennifer Huntington, Gary Kostuchowski, Terry Krzykowski, Judy LeClair, Kaycee Marks, Ginger Marten, Brad Matott, Karen Medo, Trudi Meinholz, Rebecca Mischnick, Sarah Oksiuta, Jeanne Olson, Karen Peters, Mari Peterson, Sue Posechl, Paula Reeves, Patti Ritchay, Scott Sanger, Colleen Szama, Laura Schmitt, Scott Sigourney, Kelly Sneen, Teri Thomas, Stefanie Tryba, Gwen Van Asten, Chris Weinhold; **Wittenberg-Biramwood:** Jackie Berndt, Cathy Easker, Rhea Marien, Chris Nier; **Woodruff:** Kay Jones; **Wrightstown:** Jason VanDemark;

Health Science (Clinical Laboratory Science):

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 Troy Anhalt, MT (ASCP), Staff Dev/Educator, ThedeCare Laboratories, Neenah;
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 Susan Flaker-Johnson, MEPD, MT (ASCP), Clinical Lab Science Program, Aspirus Wausau Hosp, Wausau;
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 Dr. Michael Henry, Med Dir, Mayo Clinic, Rochester, MN;
 Rodney Hoeth, MT (ASCP), Lab Mgr, St. Michael's Hosp, St Pt;

Rebecca Johnson, Med Dir Clinical Lab Science Prog, Berkshire Med Center Lab, Pittsville, MA;
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 Dr. Kathryn Kolquist, Med Dir, Marshfield Lab, Marshfield;
 Mike Lange, MT (ASCP), Lab Mgr, Riverview Hosp, Wis. Rapids;
 Mike Lawton, MT (ASCP), Lab Mgr, Langlade Hosp, Antigo;
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 Angela Mack, MT (ASCP), lab Dir, Sauk Prairie Mem. Hosp. & Clinics, Prairie du Sac;
 Lori Moore, Med Educ, MT (ASCP), Prog Dir, Berkshire Med Center Lab, Pittsville, MA;
 Dr. Peter Podluszky, Med Dir, Affinity Health System, Appleton;
 Janet Rosin, MT (ASCP), Educ Coord, Affinity Health System, Appleton;
 Dr. M. E. Rubnitz, Med Dir Clinical Lab Science Prog, VA Hines Hosp, Hines, IL;
 Dr. George Rupp, Med Dir, Marshfield Clinic, Marshfield;
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 Julie Seehafer, PhD, MT (ASCP), SH Dir, Lab Educ, Marshfield Clinic, Marshfield;
 Jeff Shadick, MT (ASCP), CLS (NCA), Dir of Lab Services, St. Mary's Hosp, Green Bay;
 Dr. Gene Shaw, Dir of Clinical Lab Science Prog, Marshfield Clinic, Marshfield;
 Jim Sorenson, MT (ASCP), Educ Coord, Sacred Heart Hosp, Eau Claire;
 Sandra Steen, BS, MT (ASCP), Lab Admin Dir, Monroe Clinic, Monroe;
 Sandra Stein, Lab Admin Dir, St. Mary's Hosp, Rhinelander;
 Lynn Sterud, Educ Coord of School of Cytotechnology, Wis State Lab of Hygiene, Madison;
 Joann Taylor, MT (ASCP), Lab Dir, Divine Savior Healthcare, Portage;
 Timothy Vue, MT (ASCP), Lab Mgr, Blk River Mem. Hosp, Black River Falls;
 Donna Wary, BS, MT (ASCP), School of Med Tech Prog Dir, VA Hines Hosp, Hines, IL;

Interior Architecture:

Jan Albertson, B.S., Interior Designer, UW-Stevens Point;
 Michael Begler, Enterprise Lighting
 Kar-Keat Chong, B.S., 20 Below Studio, Minneapolis
 Jim Draeger, State Historic Preservation Officer, Wis State Historical Society, Madison
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Index

"G" numbers refer to graduate topics.

- Abbreviations, 42, see each subject
Absences, 24
Academic
 Advisors, 23, 173, G178
 Bankruptcy, 23
 Calendar, v
 Classification, 25
 Ethics, G176
 Honors, 28, 36, 37, 40, 41, see specific subjects
 Information, 23-35
 Probation, 30, G179
 Progress, 33, G179
 Requirements, 3, 23, G179
 Standards, 29, G179, see each subject
 Standing, 23, 30
 Suspension, 4, 30
Academic Staff, 198
Accounting, 59
Accreditation, ii
Acting (see Theatre and Dance)
Actuarial Mathematics, 125
Adapted Physical Education, 104
Add-Drop Procedure, 26, G181
Administration, iii
 Admission
 to Candidacy, G178
 to Graduate Study, G177
 to Professional Educ. Program, 77
 to School of Education, 77
 to the University, 3, 4
 Admissions Office, 3
 Adult Life and Aging, 165
 Advanced Placement Program (AP), 6
 Advanced Standing, 6
 Adventure Education, 104
 Advisors, 23, G178
 Advising Center, 24, 173
 Aerobic Activity, 16, 18, 20, 21
 Affirmative Action, 1
 African and Middle East Studies, 123
 American Studies, 43
 Anthropology, 44
 Application for Admission, 3
 Application for Graduation, 16, 18, 20, G181
 Applied Electronics, 155
 Applied Mathematics, 125
 Applied Mechanics, 155
 Applied Music, 129
 Applied Sociology, 165
 Aquaculture/Fish Culture, 45
 Aquatic Biology, 54
 Arabic, 95
 Army ROTC, 8, 127-128
 Art and Design, 45
 Gallery, 46
 Graphic Design, 47
 History, 48
 Three-dimensional, 47
 Two-dimensional, 47
 Arts Management, 51
 Asian Studies, 123
 Assessment, 13, 24
 Assistantship, Graduate, G183
 Associate Degree, 21
 Astronomy, 52
 Athletic Training, 103
 Athletics, 24
 Attendance, 24
 Audiology, 72, (see Communicative Disorders)
 Audit, of Courses, 24
 Australian (et.al.) Studies, 123
 Bachelor of Arts GDR, 15
 Bachelor of Fine Arts GDR, 19
 Bachelor of Music GDR, 19
 Bachelor of Science GDR, 17
 Ballet, 168
 Bankruptcy, academic, 23
 Billing Errors, 10
 Billing of Fees, 9
 Biobusiness, 54
 Biochemistry, 52
 Biology, 53, G185
 Biology, Conservation, 148-149
 Biology Education, 57
 Biotechnology, 55
 Botany, 55
 Broad-Field Natural Science, 150
 Broad-Field Social Science, 164
 Business Administration, 59
 Business and Economics, 57
 Calendar, v
 Camp Management/Youth Programming, 142
 Campus Map, vi
 Captive Wildlife, 148
 Career Services Office, 25
 Cartography/GIS, 97
 Center for Communicative Disorders, 71
 Center for Economic Education, 57
 Center for the Small City, 163
 Central Wis Connection, 4
 Central Wis Economic Research Bureau, 57
 Central Wis Environmental Station, 40
 Certifiable Programs, 83
 Certificate programs, 25, 59, 65, 110, 147, 151
 Certification for Teaching, 82-83, G188, see specific subjects
 Checklist for Master's/Doctorate Degree, G184
 Chemical Engineering, 65
 Chemistry, 64
 Child and Family Studies, 109
 Child Development (see Early Childhood Education)
 Chinese, 95
 Chiropractic, 55
 Choral Music Education, 131
 Choreography, 169
 Classification, Academic, 25
 Classification by Credits, 25
 Classified Staff, 198
 CLEP, 6
 Clinical Laboratory Science, 115
 Coaching, 104, 105-106
 Collaborative Degree Program, 25, 44, 61
 College Level Examination Program (CLEP), 6
 Colleges of
 Fine Arts and Communication, 36
 Letters and Science, 37
 Natural Resources, 39
 Professional Studies, 41
 Communication, 67, G186
 Environmental, 142
 Individually Planned, 68
 Interpersonal, 68
 Media Studies, 66
 Organizational, 68
 Public Relations, 68
 Test-Out, 13
 Communicative Disorders, 70, G187
 Communicative Disorders, Center for, 71
 Community and Human Resources, G193
 Comparative Literature, 74
 Computer Information Systems, 74
 Conduct (rights/responsibilities), 33, G177
 Confidentiality of Records, 31
 Conservation (see Natural Resources or Resource Management)
 Conservation Biology, 148-149
 Consumer and Family Sciences, 109, 110-111
 Contents, iv
 Continuing Education, 35, G182
 Counseling and Guidance, G192
 Course Numbers, 42, G180
 Course Repetition, 32
 Course Waivers and Substitutions, 25
 Courses of Instruction, 42
 CPS, Continuing Education, 35, 41
 Credit Agreement (for tuition), 10
 Credit by Exam, 5, 13, see each subject
 Credit/Semester Hour, 25
 Credit Load, 33, G180
 Culminating Experience, G181
 Culture Studies, 93, 94
 Cytotechnology, 115
 Dance, 169
 Dean's List (honors), 25, 28, 36, 37, 40, 41
 Declaring a Major or Minor, 29
 Degree Progress Report, 25
 Degrees
 Associate, 21
 Bachelor of Arts, 15
 Bachelor of Fine Arts, 19
 Bachelor of Music, 19
 Bachelor of Science, 17
 Clinical Doctorate in Audiology, 72, G188
 Master's, G176
 Dentistry, 37, 55
 Department Honors, 28
 Design (see Art & Design or Interior Architecture)
 Dietetics, 109
 Dining Services, 10
 Directory Information, 31
 Disability Services, 1
 Disciplinary Procedures, 34, G177
 Discrimination, 1
 Distance Learning Courses, 29
 Doctorate in Audiology, 72, G188
 Drama, 170
 Drop-Add Procedure, 26, G181
 Dropped from Major, 26
 Early Childhood Education, 79, 83, G190
 Earth Science, 76, 150
 E-Billing, 10
 Ecology, 55
 Economics, 61
 Education, 77, G188
 Educational Administration, G192
 Elementary Education, 79, G189
 Emeritus Faculty, 212
 Employment, 7, G181, G183
 Engineering, 38, 65, 151
 English, 87, G192
 English as a Second Language Minor, 94
 English as a Second Language Program, 91
 English, test-out, 14, 87
 Enrollment Caps, see specific subjects
 Entrance Requirements, 3, G178
 Entrepreneurship, 60
 Environmental Communication, 142
 Environmental Educ/Interpreter, 142, G196
 Environmental Ethics, 153
 Environmental Law/Enforcement, 142
 Environmental Literacy, 13, 16, 18, 20
 Environmental Station, 40
 Environmental Studies, 92
 Equal Opportunity, 1

218 Index

- Ethnicity & Race Studies, 118
Ethnobotany, 44, 54
European Studies, 123
Exceptional Education, 80-81, G191
Expenses, 8, G183
Experiential Learning Program, 6, 93
Extended Master's Degree, 35
Faculty and Staff, 198
Family and Consumer Sciences, 109, 110-111
Family Life Education, 109
Fee Remission Consideration, 8, G184
Fees, 8, G181
Fellowship, G183
Field Experience (Student Teaching), 82
Field Seminar (Natural Resources), 146
Field Stations (Natural Resources), 40
Final Examinations, 26
Finance, Insurance, & Real Estate (FIRE), 60
Finance Charges, 9-10
Finances, 6
Financial Aid, 6, G179, 183
Fine Arts and Communication, College of, 36
Fish Culture/Aquaculture, 45
Fisheries and Water Resources, 39, 136
Food and Nutrition (courses), 111
Foreign Languages, 13, 16, 19, 93, see specific languages
Foreign Language Culture Studies, 93, 94
Foreign Language Placement, 14, 93
Foreign Language, Technical, 60, 94
Foreign Language, Test Out, 14
Forestry, 39, 138
 Forest Admin/Utilization, 139
 Forest Ecosystem Restore/Mgt, 139
 Forest Management, 138
 Forest Recreation, 60, 139
 Urban Forestry, 139
Forty Credit Rule, 16, 18, 20, 42
French, 95
General Degree Requirements, 13-20
 Abbreviations, 42
 Graduate, G179
 Undergraduate, 15-20
General Music Education, 131
General Science (see Natural Science)
Geographic Information Science and Cartography, 98
Geographic Information Systems and Spatial Analysis, 98
Geography, 97
Geology, 100
Geoscience, 101
German, 95-96
Gerontology, 165
Global Studies, 124
Grade Point Average, 27
Grades/Grade Review, 26, G181
Grades, Incomplete, 28
Grades, Pass/Fail, 30
Graduate Study, G176-G197
 Academic Ethics, G176
 Active/Inactive Status, G180
 Assistantships, G183
 Checklist, G184
 Committee/Coordinator, G176, G178
 Copyrights and Patents, G177
 Council, G176
 Extended Master's Degree, 35
 Fellowship, G183
 General Requirements, G179
 Patents, G177
 Program of Study, G178-G179
 Registration, G181
 Research Fund, G183
 Research, Human Subjects, G177
 Research Misconduct, G177
 Thesis, G182, see each subject
 Time Limit, G181, G187
Graduation, 27-28
 Application, 16, 18, 20, G181
 Honors, 28
 Minimum Credits, 16, 18, 20
 Minimum Grade Point Average, 27
 Graduation, 4-year agreement, 28
Grants and Waivers, 7, G184
Graphic Design, 47
Groundwater, 136
Guidance and Counseling, G192
Health Care Administration, 115
Health Care Informatics, 116
Health Education, 104
Health Enhancement, 16, 18, 20, 108
Health, Exercise Science, and Athletics, 102
Health Promotion, 110
Health Promotion/Human Development, 109
Health Sciences, 114
History, 118, G192
Histotechnology, 115
Hmong (language), 96
Home Economics, (see Family/Consumer Sci)
Honors, Academic, 28, 36, 37, 40, 41
Honors Intern Program, 7, 121
Housing and Dining Services, 10
Human and Community Resources, 113, G193
Human Geography, 97, 164
Human Development, 114
Human Dimensions of Natural Resource Management, 141, G196
Human Services, 159
Humanities Requirement, 13, 15, 17, 19
Incomplete, Grade of, 28, G179, G181
Independent Learning Courses, 29
Index, 217
Individually Planned Major, 121
Instructional Resources, 121
Instrumental Music Education, 131
Interim Sessions, 28, 35
Interior Architecture (design), 121
International Business, 60
International Programs, 29
International Resource Management, 142
International Studies (major), 123
Intern Teaching, 82
Interpersonal Communication, 68
Japanese, 96
Jazz Studies, 130
Jobs, 7, G181, G183
K-12 Education, 80
Kindergarten Certification, 79
Land Use Planning, 142
Latent Courses, see each subject
Latin American Studies, 123
Law, 38, 157
Law Enforcement (see Environmental Law/Enforcement)
Leadership & Administration, G196
Leadership Training, 127
Learning Resources (see Instructional Resources)
Letters and Science, College of, 37
Library Resources, 124
Library Science (see Instructional Resources)
Life Science, 150
Loans, 7
Major/Minor Declaration, 29
Majors, List of, 11-12
Map of Campus, vi
Marine Biology, 57
Master's Degree (see Graduate Study)
Mathematics (GDR) 14, 15, 17, 19
Mathematics, Actuarial, 125
Mathematical Sciences, 124
Mathematics, Applied, 125
Mathematics Placement, 14, 125
Meal Plan, 10
Media Studies, 68
Medical Technology, 115
Medicine, 38, 55
Menominee (language), 96
Microbiology, 55
Middle East and African Studies, 123
Military Science, 127
Military Science Scholarships, 7-8
Military Service Benefits, 8
Minimum Acceptable Standards, 29
Minorities, Nondiscrimination of, 1
Minority Studies (GDR), 13, 15, 17, 19
Minors, List of, 11-12
Mission of the University, 1
More Academic Information, 23-35
Mortuary Science, 38, 55
Museum Techniques, 129
Music, 129, G195
Music Education, 130
Music Literature, 131
Musical Theatre, 170
Native American and Rural Social Work, 165
Native American Studies, 135
Natural History, 55
Natural Resources, 39, 136, 143, G195
Natural Science, 150
Natural Science, Broad-Field, 150
New Student Programs, 3-4
Nonresident Status, Determination of, 9
Nontraditional Student, 29
Non-Western courses, 13, 15, 17, 19
Nursing, 159
Nutrition, 109, G193
Occupational Therapy, 116
On-Campus Living, 10
Online Courses, 29
Optometry, 55
Organizational Communication, 68
Orientation (for new freshman), 3
Overseas Study, 29
Paper Science and Engineering, 39, 151
Paper Science Certificate, 151
Partial Payment Plan, 9-10
Pass/Fail Grading, 30, 42, G179
Payments, Fee, 9-10
Peace Studies, 152
Percussion, Applied, 130
Pharmacy, 38, 65
Philosophy, 152
Physical Education, 102-103
Physical Education-Adapted, 104
Physical Education-Exceptional Individual (PEX) (courses), 107
Physical Environment, 97
Physical Science, 150
Physical Therapy, 116
Physician's Assistant, 55
Physics, 154
Piano, Applied, 129
Placement Tests, 14, 87, 93, 125
Polish (language), 96
Political Science, 156
Polymer Chemistry, 65
Prechemical Engineering, 65
Prechiropractic, 55
Predentistry, 37, 55
Pre-engineering, 38, 156

- Prelaw, 38, 157
 Premedicine, 38, 55
 Premortuary, 38, 55
 Prenursing, 159
 Preoccupational Therapy, 116
 Preoptometry, 55
 Prepharmacy, 38, 65
 Prephysical Therapy, 116
 Prephysician's Assistant, 55
 Preprofessional Study, 37, 55
 Prerequisites, 30, 42
 Preveterinary, 55
 Privacy Act, 31
 Probation, Academic, 30, G179
 Professional Education Program, 77
 Professional Studies, College of, 41
 Program of Study (graduate), G178
 Psychology, 159
 Public Administration/Policy Analysis, 161
 Public Relations, 68
 Race & Ethnicity Studies, 118
 Reading Certification, G191, G192
 Readmission, 4
 Records, Student (privacy), 31
 Refunds, 10
 Registration, 32, G181
 Religious Beliefs Accommodation, 32
 Religious Studies, 153, 162
 Remedial Coursework, 15, 17, 19, 32, 126
 Repeating Courses, 32
 Requirements, Academic, 23, G179
 Requirements, Entrance, 3
 Requirements, General Degree, 13-20
 Research (course), 163, G181
 Research Misconduct Policy, G177
 Reserve Officer Training Corps (see
 Military Science)
 Residence Requirements for a Degree, 33
 Residency
 Eligibility, 9
 Minnesota Fees, 9
 Out-of-State Fees, 8
 Wisconsin Fees, 8
 Residential Envir. Educ. Program, G196
 Resource Management, 39, 141
 Responsibility, Student, 33, G176
 Retroactive Credit, 6
 Returning Students, 4
 Review of Grades, 26-27
 Rights and Responsibilities, 33-34, G176
 Room and Board, 10
 ROTC, 8, 127
 Rural Social Work/Native American, 165
 Russian, 96
 Russian and Eastern Europe Studies, 123
 Safety and Health Protection, 114
 Safety/Health Policy, 33
 Satisfactory Academic Progress, 33
 Schmeeckle Reserve, 40
 Scholarships, 7
 Second Degree, 33, G182
 Secondary Education, 80, see specific
 subjects
 Semester Abroad Program, 29
 Semester Honors, 28
 Semester Hour/Credit, 25
 Semester Study Load, 34
 Small City Analysis, 163
 Smoking Policy, 33
 Social Science, 163
 Social Science Broad-field, 164
 Social Sci GDR Requirement, 13, 16, 18, 20
 Social Science in Health, 165
 Social Work, 164
 Social Work, Rural, 165
 Sociology, 164
 Soil and Land Management, 146
 Soil and Waste Resources, 39, 146
 Soil Science, 60, 146
 Spanish, 96
 Special Ed Teacher Prep, 80-81, G191
 Special Fee Remission, 8, G184
 Special Students, 3, G178
 Speech (see Communication)
 Speech Pathology and Audiology (see
 Communicative Disorders)
 Staff and Faculty, 198
 Stevens Point, Community, 2
 Strength and Conditioning, 104, 110
 String Instrument, Applied, 130
 Student
 Academic Advising Center, 23, 173
 Conduct, 33-34
 Employment, 8, G183
 Expenses, 8, G183
 Records, 31
 Research Fund, G183
 Responsibility, 33-34, G176
 Teaching, 82
 Study Abroad, 29
 Study Load, 34
 Summer Camp, 39, 146
 Summer Session, 34
 Suspension, Academic, 4, 30
 Suspension, Readmission after, 4
 Sustainability, 34
 Suzuki Talent Education, 131
 Table of Contents, iv
 Teacher Certification, 82-83, see specific
 subjects
 Teaching (see Education)
 Teaching English as a Second Language, 94
 Technical Colleges, 5
 Technical Foreign Language, 60
 Test-Out of Courses, 5, 6, 13-14, see each
 subject
 Text Rental, 34
 Theatre and Dance, 167
 Therapeutic Lifestyle Changes Coaching
 Certificate, 110
 Transcripts, 34, G182
 Transfer Credit Appeal Procedure, 5
 Transfer Information System (TIS), 5
 Transfer of Credit, 5-6, 34, G182
 Transfer Students, 4, G182
 Treehaven Field Station, 40
 Tuition, 8
 Tuition Waiver, 8, G184
 Tutoring Services, 34-35
 Undecided/Undeclared, 173
 University Associates, 213
 University Mission, 1
 University System Administration, iii
 Urban Forestry, 139
 Urban Planning, 97
 UW Colleges, 5
 UWSP Continuing Education, 35
 Veteran's Benefits, 9
 Veterinary Study, 55
 Voice, Applied, 130
 Waste Resources, and Soils, 39, 146
 Waste Management, 147
 Water Resources and Fisheries, 136
 Watershed Management, 137
 Web and Digital Media Development, 173
 Web Site Development, 74, 173
 Wellness, 13, 16, 18, 20, 108, 110, 112
 Wetland Science Certificate, 147
 Wildlife Ecology, 39, 148
 Wildlife, Captive, 148
 Wind Instrument, Applied, 130
 Winterim, 35
 Wisconsin Residency, 8
 Wisconsin Teaching Standards, 77
 Withdrawal
 from a Course, 26
 from a Residence Hall, 10
 from the University, 26, G182
 Women, Nondiscrimination of, 1
 Women's Studies, 174
 Wood Products Industry, 60
 Work Study, 7
 Writing, 88
 Writing Emphasis Program, 13, 15, 17, 19
 Year in School, 25
 Youth Programming and Camp Mgt, 142
 Zoo and Aquaria, 55
 Zoology, 55