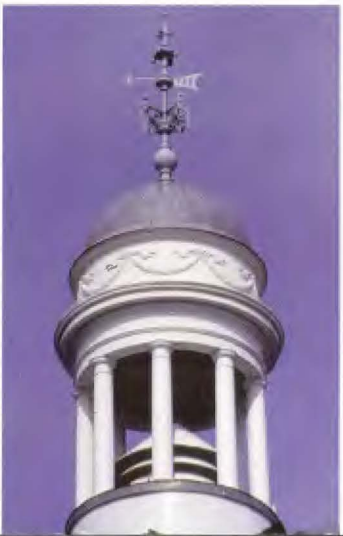




JWSP



University of Wisconsin- Stevens Point Undergraduate and Graduate Catalog 1999-2001

In compiling our catalog we have used the most current and accurate information available to us at this time. However, we reserve the right to change any of the information in this catalog at any time and without giving prior notice. When the UW System or UW-Stevens Point campus deletes or revises any of the information in this catalog, the changes take effect as soon as they are approved. To keep up-to-date on these changes, check with your adviser regularly during your college career.

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

Mary Sipiorski, Catalog Editor



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Accreditation

UW-Stevens Point is accredited by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools 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:

North Central Association of Colleges and Schools
 Commission on Institutions of Higher Education
 30 North LaSalle Street, Suite 2400
 Chicago, Illinois 60602-2504
 312-263-0456; 800-621-7440
 FAX 312-263-7462; E-mail: Info@ncacihe.org

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

American Chemical Society
 American Dietetics Association
 American Speech, Language and Hearing Association
 Foundation for Interior Design Education Research
 National Association of Schools of Art and Design
 National Association of Schools of Dance
 National Association of Schools of Music
 National Association of Schools of Theatre
 Society of American Foresters

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 Joan North, Dean, College of Professional Studies

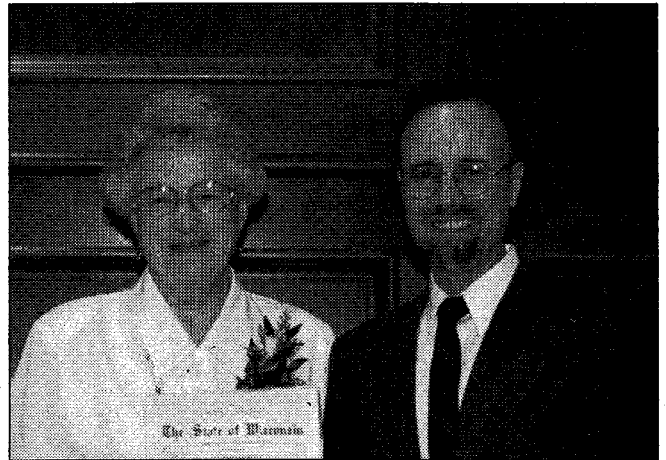
University System Administration

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 David J. Ward, Senior Vice President of Academic Affairs
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Board of Regents (1999)

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Dedication



**Retiring Assistant Chancellor Helen R. Godfrey and
Chancellor Thomas F. George**

This catalog is dedicated to Helen Godfrey, retired assistant chancellor for student affairs, who served UWSP in a variety of administrative roles during her 33 years on campus. Of her service to the university and the community, Helen has said, "I personally believe that's the reason I'm here. There are things I have to do—I want to make a difference in someone else's life." One of her greatest contributions to the lives of others has been to help thousands of UWSP students mature, develop, and become successful world citizens. A strong supporter of the union of academics and student activities, she has been a voice of reason, balance and wisdom throughout her career. Helen, this one's for you.

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Calendar

1999-2000	2000-01	First Semester
Sep 2	Sep 5	Classes begin
Nov 24, 6pm	Nov 22, 6pm	Thanksgiving recess begins
Nov 29	Nov 27	Classes resume
Dec 17	Dec 15	Last day of classes
Dec 19	Dec 16	Study day
Dec 19	Dec 16	Commencement
Dec 18-23	Dec 18-22	Final exams
1999-2000	2000-01	Second Semester
Jan 3	Jan **	Winterim begins
Jan 15	Jan **	Winterim ends
Jan 18	Jan 22	Classes begin
Mar 10, 6pm	Mar 16, 6pm	Spring recess begins
Mar 20	Mar 26	Classes resume
Apr 21, 2pm	Apr 13, 2pm	Easter Recess begins
Apr 24	Apr 16	Classes resume
May 5	May 11	Last day of classes
May **	May 12	Study day
May 8-12	May 14-18	Final exams
May 14	May 20	Commencement
2000	2001	Summer Session
May 22	May 29	Three-week session begins
Jun 12	Jun 18	Eight-week session begins
Jul 3-4	Jul 4	Holiday
Aug 2	Aug 8	Last day of classes
Aug 3-4	Aug 9-10	Final exams

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 8,500 undergraduate and graduate students. Nearly 95 percent of our 600-plus full- and part-time teaching staff have doctorate 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 Schmeeckle Reserve, a 267-acre nature area which includes a 24-acre lake, a nature center, and trails that are part of the Portage County 26-mile recreational Green Circle.

Equal Opportunity/Affirmative Action Policy

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

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

Disability Services

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

UW-Stevens Point Mission Statements

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

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

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

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

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

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

2 Introduction

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

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

The Stevens Point Community

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

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

The international headquarters of Sentry Insurance gives Stevens Point a cosmopolitan flavor which is unusual for a Midwestern city of its size. Other major employers include Associated Bank, Consolidated Papers, Del Monte Corp., Ore-Ida Foods, American Potato, and Copps Corp.

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



Admissions

Admission Application Procedure

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

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

You may also apply for admission using the UW System World Wide Web electronic application form accessible through the UWSP Admissions Office Web page: <http://www.uwsp.edu/admit/admiss.htm>

New Freshman Admission

You will be considered for admission as a new freshman for the 1999-2000 school year if you satisfy the following requirements and the freshman class enrollment total has not been reached. NOTE: Admission is subject to program capacity limits and institutional enrollment limits established by the Board of Regents of the University of Wisconsin System.

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

- A. You must graduate from a recognized high school or its equivalent. Your high school is recognized if
1. It is operated by a public school district,
 2. It is a private school that is accredited by a federally approved accreditation association, or
 3. It is a private school that is not accredited but is recognized by the UW System because of the performance of previously admitted graduates from that high school.
 4. If you did not graduate from a recognized high school, you must provide evidence of ability to begin college work. Such evidence may include General Education Development (GED) test scores or other established criteria, transcripts of coursework completed in high school, high school rank-in-class before leaving, written recommendations, ACT scores or other evidence deemed appropriate by the university. If you are a high school equivalency applicant, you may not normally enroll unless you are a minimum of two years past your expected date of high school graduation.
- B. You must complete a minimum of 17 credits from the academic areas listed below. A credit is one academic year of study.
1. **Core College Prep Credits** **13 credits**
 - a. **English** **4 credits**
 Three credits must be in college preparatory composition and literature. The fourth English credit may be satisfied by any nonremedial course that meets DPI graduation requirements and is offered through the English Department.
 - b. **Mathematics** **3 credits**
 Including courses such as algebra, geometry, algebra II, trigonometry, precalculus, calculus, and other college preparatory

- mathematics courses for which algebra and/or geometry are prerequisites.
 - c. **Social Science** **3 credits**
 - d. **Natural Science** **3 credits**
 2. **Elective Credits** **4 credits**
 - a. Two credits from the above core college preparatory areas, foreign language, fine arts,* or computer science (excluding keyboarding) **AND**
 - b. Two credits from the core college preparatory areas, elective credits listed above or other academic areas.**

***Acceptable fine arts courses:**

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

****Acceptable courses for other academic areas:**

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

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

- C. Applicants who meet any one of the following criteria will be admitted on a rolling basis until enrollment limits are met. **We urge you to apply early.**
 1. High school cumulative grade point average of 3.00 or above **and** ACT score of 21 or higher (SAT I of 990) **OR**
 2. High school class rank in the top 40 percent **OR**
 3. ACT composite score of 21 (Sat I of 990) or higher **and** high school class rank in top 50 percent.

If you do not meet the above criteria but you have a high school grade point average of 2.50-2.99 **OR** a high school rank in class of 50-59 percent **OR** an ACT of 20 (SAT I of 950) or above, your application will be reviewed individually on a rolling basis. Decisions to admit, deny, or place on "hold" for later consideration will depend on enrollment capacity and will be based on a combination of various predictors of success such as: class rank, ACT, high school GPA, breadth and rigor of courses selected, trend in applicant's grades, and grades in college preparatory courses.
- D. If you do not qualify according to the above requirements, you may appeal to the director of admissions for special consideration.
- E. **You must submit the results of either the ACT or SAT examinations. The ACT is preferred. (You will not be disadvantaged in the admission process by taking one test rather than the other.)**

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

4 Admissions

Orientation for New Students

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

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

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

Nondegree (Special) Students

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

High School (Special) Students

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

Returning UWSP Students

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

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

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

1. **First Suspension:** You may apply for readmission one semester after you are first suspended, but realize that readmission is not automatically granted. You may

apply even earlier if you show that you were suspended due to circumstances you could not control and that those circumstances have changed.

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

Admission of Transfer Students

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

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

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

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

Transferring Credit to UWSP

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

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

of our general degree requirements, but you still must meet UW-Stevens Point skills requirements in mathematics, foreign language, communication (public speaking), English, writing emphasis, and the general degree requirements that you normally take in the last two years of your university experience.

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

Transferring Credit from the Two-Year UW Colleges

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

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

See the *Equivalency Table* at the end of this section.

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

Transferring Credit from Wisconsin Technical Colleges

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

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

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

Transfer Information System

If you are transferring to UW-Stevens Point from another UW System institution or a Wisconsin Technical College, we encourage you to consult the Transfer Information System (TIS). This on-line source of information about credit transfer, course equivalencies, academic requirements and general UW System campus information may be accessed on the Web at <http://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 on taking a summer course at another UW System school and transferring it back to UWSP, or if you plan on transferring from UWSP to another UW institution.

Transfer Credit Appeal Procedure

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

1. Ask a transfer counselor in the Admissions Office to explain the basis for the current evaluation.
2. If you earned the credits at an institution that is not part of the UW System, bring:
 - a. A copy of the transcript and the UW-Stevens Point evaluation.
 - b. A copy of the course description from the time you took the course. For example, Iowa State's course description for Sociology 105 in 1990.
 - 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.



6 Admissions

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

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

Advanced Placement Program (AP)

If you are currently a high school student, you can earn college credit if your school participates in the College Board AP Program. High schools participating in the AP program offer full year, 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 16 different subject areas covering topics in the humanities, mathematics, natural sciences and social sciences. If you are awarded credit, it will be entered on your permanent record after you enroll at UWSP. Contact your high school or our Admissions Office, Room 102, Student Services Center, 715-346-2441, for additional details.

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 the Counseling Center, Room 304, Delzell Hall, 715-346-3553, for additional information.

Experiential Learning Program

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

Advanced Standing and 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 with placement in 313 and a grade of B- or better. Check the departmental listings in this catalog or contact the department chair for additional information.

Departmental Credit-by-Exam

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

Test-Out

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

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

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

UW Colleges/UW-Stevens Point Course Equivalency Table

The chart below indicates how courses from the UW Colleges transfer to UW-Stevens Point. The first column is a list of UW College courses from the UW Colleges 1999-2001 catalog. The second column lists equivalent courses at UW-Stevens Point. If UW-Stevens Point does not offer a course equivalent to a UW College course, this column will show the equivalent as an elective in a related area of study. The third column describes how the UW-College course will be applied toward the UW-Stevens Point general degree requirements (GDR's). This column is left blank when a UW College course does not apply toward any of the UW-Stevens Point general degree requirements.

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

CIS	Computer Information Systems
CNR	College of Natural Resources
COMM	Communication for Gen Degree Requirements
Comp Lit	Comparative Literature
EL	Environmental Literacy for General Degree Requirements
ENGL	Freshman English for General Degree Requirements

FL	Foreign Language for General Degree Requirements
FLg	Foreign Language
GDR	General Degree Requirement
HI	History for General Degree Requirements
HP/W	Health Promotion/Wellness
HU1-4	Humanities Areas 1-4 for General Degree Requirements
Int	Interdisciplinary
MATH	Mathematics for General Degree Requirements
MNS	Minority Studies for General Degree Requirements
NRes	Natural Resources
NS	Natural Science for General Degree Requirements
NW	Non-Western Culture for General Degree Requirements
SS1-2	Social Science Categories 1 and 2 for General Degree Requirements
WIns	Wellness
WL/AA	Wellness/Aerobic Activity for General Degree Requirements
WL/HE	Wellness/Health Enhancement for General Degree Requirements
Wldl	Wildlife
Womn	Women's Studies

UW College	UWSP Equiv	UWSP GDR	UW College	UWSP Equiv	UWSP GDR	UW College	UWSP Equiv	UWSP GDR
ANTHROPOLOGY			Art 202	Art 336		Bio 250	NRes 151 (CNR majors) or Biol 305 & 306 (all other majors)	NS
Art 100	Anth 101	SS1-NW	Art 222	Art 332		Bio 260	Biol 210	NS
Art 102	Anth 250	SS1-NW	Art 225	Art elective		BOTANY		
Art 105	Anth 111	NS	Art 231	Art 351		Bot 100	Biol elective	NS
Art 200	Anth 110	SS1-NW	Art 232	Art 351		Bot 130	Biol 130	NS
Art 204	Anth 110	SS1-NW	Art 241	Art 322		Bot 202	Biol 344	NS
Art 250	Anth elective	SS2-NW	Art 243	Art 421		Bot 231	Biol 330	NS
Art 260	Anth elective	HU1-MNS	Art 245	Art elective		Bot 240	Biol elective	NS
Art 291	Anth elective	SS1	Art 247	Art elective		Bot 291	Biol 498	
Art 299	Anth elective		Art 254	Art 361		Bot 299	Biol 399	
Art 300	Anth elective	WL/HE-MNS	Art 255	Art 361		BUSINESS		
Art 301	Anth elective	HU4	Art 261	Art 320		Bus 101	Bus 100	
Art 302	Anth 395	SS1-MNS	Art 291	Art 398		Bus 110	Econ 272	
Art 308	Anth elective	SS1-MNS	Art 299	Art 399		Bus 194	Bus elective	
Art 314	Anth 339	SS1-NW	ASTRONOMY			Bus 201	Acct 210	
Art 325	Anth elective	SS1-NW	Ast 100	3 cr/Astr elective	3 cr/NS	Bus 202	Acct 310	
Art 341	Anth elective	SS1		4 cr/Astr 100	4 cr/NS	Bus 204	Acct 211	
Art 343	Anth elective	SS1-NW	Ast 101	Astr elective	NS	Bus 210	Engl 251	
Art 350	Anth elective	WL/HE-MNS	Ast 100&101	Astr 100	NS	Bus 230	CIS 101 & 102	
Art 353	Anth elective	SS1-MNS	Ast 200	Astr 205	NS	Bus 243	Econ 310	
			Ast 291	1-2 cr/Astr elctv 3 cr/Astr 380		Bus 297	Bus elective	
			BACTERIOLOGY			Bus 299	Bus elective	
			Bac 101	Biol 333	NS	CHEMISTRY		
			Bac 299	Biol 399		Che 112	Chem 104	
			Bac 303	Biol elective	NS	Che 123	Chem 100	NS
			Bac 304	Biol elective	NS	Che 124	Chem 100	NS
			Bac 303&304	Biol 333	NS	Che 125	Chem 101	NS
			BIOLOGY			Che 145	Chem 105	NS
			Bio 103	NRes 150 (CNR major) or NRes 395 (all others)	SS2-EL	Che 155	Chem 106	NS
				NRes 150 (CNR major) or NRes 395 (all others)		Che 203	Chem elective	NS
			Bio 107		SS2-EL	Che 211	Chem elective	NS
						Che 214	Chem elective	NS
			Bio 109	Biol 101	NS	Che 244	Chem 248	NS
			Bio 116	Biol elective	HU4	Che 290	Chem elective	
			Bio 151	Biol elective	NS	Che 299	Chem elective	
			Bio 152	Biol elective	NS	Che 343	Chem 325	NS
			Bio 151&152	Biol 130 & 160	NS	Che 352	Chem 328	NS
			Bio 160	Biol 210	NS	Che 363	Chem 326	NS
			Bio 230	Biol elective	HU3			
ART								
Art 100	Art elective							
Art 101	Art 103							
Art 102	Art 104							
Art 103	Art 303							
Art 111	Art 101							
Art 112	Art 102							
Art 121	Art 234							
Art 122	Art 331							
Art 125	Art 334							
Art 131	Art 251							
Art 141	Art 321							
Art 154	Art 261							
Art 161	Art 215							
Art 170	Art elective							
Art 175	Art elective	HU1-MNS						
Art 180	Art elective	HU1						
Art 181	Art 282	HU1						
Art 183	Art 283	HU1						
Art 185	Art elective	HU1						
Art 187	Art elective	HU1						
Art 188	Art elective	HU1						
Art 201	Art 236							

8 Equivalency Table

UW College	UWSP Equiv	UWSP GDR	UW College	UWSP Equiv	UWSP GDR	UW College	UWSP Equiv	UWSP GDR
COMMUNICATION ARTS								
Com 101	Comm 211	SS2	Eng 204	Engl 353		Geo 297	Geog elective	
Com 103	Comm 101	COMM	Eng 206	Engl 254		Geo 299	Geog 395	
Com 104	Comm 299		Eng 210	Engl 251		Geo 300	Geog 368	SS1-MNS
Com 105	Comm 299		Eng 250	Engl 200	HU2	Geo 341	Geog 226	SS1-MNS
Com 106	Comm 299		Eng 251	Engl 312	HU2	Geo 342	Geog 211	SS1
Com 110	Comm elective		Eng 253	Engl elective	HU2	Geo 349	Geog 328	SS1-MNS
Com 130	Thea 105	HU1	Eng 255	Engl elective	HU2	Geo 350	NRes 150 (CNR major) or NRes 395 (all others)	SS2-EL
Com 131	Thea 126, 226, 326 or 426		Eng 260	Engl 211	HU2			
			Eng 261	Engl 212	HU2			
Com 150	Comm 125	HU1	Eng 262	Engl 213	HU2	GEOLOGY		
Com 160	Comm elective	SS2	Eng 263	Engl 214	HU2	Glg 100	Geol 100	NS
Com 201	Comm 121	HU1	Eng 264	Comp Lit 101	HU2	Glg 101	Geol 104	NS
Com 202	Comm elective	SS2	Eng 265	Comp Lit 102	HU2	Glg 102	Geol 105	NS
Com 203	Comm 221		Eng 266	Engl elective	HU2	Glg 104	Geol elective	NS
Com 204	Comm elective		Eng 267	Engl elective	HU2	Glg 107	NRes 377	NS
Com 220	Comm elective		Eng 268	Engl elective	HU2-NW	Glg 135	Geol elective	NS-EL
Com 221	Comm elective		Eng 269	Engl elective	HU2-NW	Glg 169	NRes 150 (CNR major) or Geol 100 (all others)	SS2-EL (CNR major); NS-EL (all others)
Com 230	Comm elective	HU2	Eng 270	Engl elective	HU2	Glg 291	Geol elective	
Com 232	Thea 170		Eng 272	Engl elective	HU2	Glg 297	Geol 391	
Com 234	Thea 146		Eng 273	Engl elective	HU2-NW	Glg 299	Geol 295	
Com 266	Comm 380	SS2	Eng 274	Engl elective	HU2	Glg 309	Geol 352	NS
Com 268	Comm elective	COMM	Eng 275	Engl elective	HU2-NW	Glg 343	Geol 370	NS
Com 298	Thea elective		Eng 276	Engl elective	HU2			
Com 299	Thea 399		Eng 277	Engl elective	HU1	GERMAN		
Com 349	Thea elective		Eng 278	Engl elective	HU2-MNS	Ger 101	Germ 101	FL
			Eng 279	Engl elective	HU2	Ger 103	Germ elective	FL
COMPUTER SCIENCE			Eng 280	Engl elective	HU2	Ger 104	Germ 101	FL
Cps 100	CIS 101		Eng 290	Engl elective		Ger 105	Germ 102	FL
Cps 101	CIS elective		Eng 299	Engl 399		Ger 106	Germ elective	FL
Cps 103	CIS elective		Eng 351	Engl elective	HU2	Ger 107	Germ 102	FL
Cps 104	CIS elective		Eng 353	Engl elective	HU2	Ger 118	FLg 100	
Cps 103/104	CIS 101		Eng 355	Engl elective	HU2	Ger 119	FLg 100	
Cps 105	CIS 102		Eng 370	Engl elective	HU2	Ger 201	Germ 211	FL
Cps 106	CIS 102		Eng 380	Engl elective	HU2	Ger 203	Germ elective	FL
Cps 107	CIS 102		FORESTRY			Ger 204	Germ 211	FL
Cps 108	CIS 102		For 120	NRes 250 (only if WIL 140 or ZOO 140 is also taken); Forestry elective if alone	NS	Ger 205	Germ 212	FL
Cps 106/107/108	CIS 115					Ger 206	Germ elective	FL
Cps 110	CIS 101					Ger 207	Germ 212	FL
Cps 113	CIS elective		FRENCH			Ger 215	FLg 100	
Cps 130	CIS 102		Fre 101	Fren 101	FL	Ger 216	FLg 100	
Cps 133	CIS elective		Fre 103	Fren elective	FL	Ger 221	Germ 340	HU2
Cps 213	CIS elective		Fre 104	Fren 101	FL	Ger 222	Germ 340	HU2
Cps 216	CIS 210		Fre 105	Fren 102	FL	Ger 223	Germ 370	HU2
Cps 252	CIS elective		Fre 106	Fren elective	FL	Ger 225	Germ 313	FL
Cps 256	CIS 210		Fre 107	Fren 102	FL	Ger 226	Germ 314	
Cps 260	CIS 230		Fre 118	FLg 100		Ger 276	Elective	HU2
Cps 270	CIS 211		Fre 119	FLg 100		Ger 277	Comp Lit 350	HU2
Cps 291	CIS elective		Fre 201	Fren 211	FL	Ger 291	Germ 340	HU2
Cps 299	CIS elective		Fre 203	Fren 211	FL	Ger 299	Germ 499	
ECONOMICS			Fre 204	Fren elective	FL	HISTORY		
Eco 101	Econ 100	SS1	Fre 205	Fren 212	FL	His 101	Hist 211	HI
Eco 203	Econ 210	SS1	Fre 206	Fren elective	FL	His 102	Hist 212	HI
Eco 204	Econ 211	SS1	Fre 207	Fren 212	FL	His 105	Hist elective	HI
Eco 230	Econ 360	SS1	Fre 215	FLg 100		His 106	Hist elective	HI
Eco 243	Econ 310		Fre 216	FLg 100		His 111	Hist 105	HI
Eco 250	Econ 315	SS1	Fre 219	FLg 100		His 112	Hist elective	HI
Eco 297	Econ elective		Fre 221	Fren 318		His 114	Hist elective	HI
Eco 299	Econ elective		Fre 222	Fren 341	HU2	His 115	Hist 106	HI
EDUCATION			Fre 223	Fren 342	HU2	His 118	Hist 391	HI-NW
Edu 201	Educ 280		Fre 225	Fren 370	HU2	His 119	Hist 107	HI
Edu 300	Educ elective	SS2	Fre 226	Fren 313	FL	His 120	Hist 108	HI
Edu 330	Educ elective	SS2	Fre 266	Fren 314		His 123	Hist 331	HI
ENGINEERING			Fre 276	Elective	HU2	His 124	Hist 332	HI
Egr 100	Elective		Fre 277	Comp Lit 350	HU2	His 126	Hist elective	HI
Egr 106	Elective		Fre 291	Fren 340	HU2	His 127	Hist 327	HI-NW
ENGINEERING GRAPHICS			Fre 299	Fren 499		His 150	Hist elective	HI
Gra 102	Elective		GEOGRAPHY			His 161	Hist elective	HI-NW
Gra 113	Elective		Geo 101	Geog 120	SS1-NW	His 162	Hist elective	HI-NW
ENGINEERING MECHANICS			Geo 102	Geog elective	SS1-MNS	His 198	Hist elective	HU1
Mec 201	Phys 220	NS	Geo 104	Geog elective	NS	His 211	Hist 367	HI-MNS
Mec 202	Phys 221	NS	Geo 106	Geog elective	NS	His 213	Hist 254	HU4-NW BS
Mec 203	Elective	NS	Geo 107	NRes 377	NS			HI-NW BA BM
ENGLISH			Geo 110	Geog 113	SS1-NW			BFA
Eng 095	Engl 050	no credit	Geo 115	Geog 110	SS1-NW	His 219	Hist 338	HU4-NW BS
Eng 097	Engl 050	no credit	Geo 120	Geog 101	NS			HI-NW BA BM
Eng 098	Engl 050	no credit	Geo 123	Geog elective	NS			BFA
Eng 099	Engl 099	no credit	Geo 124	Geog elective	NS	His 222	Hist 346	HU4-NW BS
Eng 101	Engl 101	ENGL	Geo 125	Geog 100	NS-EL			HI-NW BA BM
Eng 102	Engl 102	ENGL	Geo 130	Geog 340	SS1-EL			BFA
Eng 201	Engl 250		Geo 200	Geog elective	SS1-MNS	His 240	Hist elective	HI
Eng 202	Engl elective	HU2	Geo 277	Geog elective	SS1	His 254	Hist 373	HI
Eng 203	Engl 253		Geo 291	Geog elective		His 255	Hist elective	HI

Equivalency Table 9

UW College	UWSP Equiv	UWSP GDR	UW College	UWSP Equiv.	UWSP GDR	UW College	UWSP Equiv	UWSP GDR
His 256	Hist elective	HI	Mus 170	Mus 159		Mua 066	Mus elective	
His 257	Hist elective	HI	Mus 171	Mus 110		Mua 067	Mus 160	
His 270	Hist elective	HI	Mus 172	Mus 111		Mua 068	Mus 160	
His 273	Hist elective	SS1-NW	Mus 173	Mus elective	HU1	Mua 069	Mus elective	
His 274	Hist 216	HU4-NW BS	Mus 174	Mus elective	HU1	Mua 070	Mus elective	
		HI-NW BA BM	Mus 181	Mus 112		Mua 093	Mus 161	
		BFA	Mus 182	Mus 113		Mua 094	Mus 161	
His 278	Hist 130	HI-MNS	Mus 271	Mus 210		Mua 103	Mus 161	
His 280	Hist elective	HI-MNS	Mus 272	Mus elective		Mua 104	Mus 161	
His 283	Hist elective	HI	Mus 273	Mus 105	HU1-MNS	Mua 105	Mus 160	
His 285	Hist 359	HI	Mus 275	Mus elective	HU1	Mua 106	Mus 160	
His 286	Hist 360	HI	Mus 276	Mus elective	HU1	Mua 109	Mus 162	
His 288	Hist elective	HU4	Mus 280	Mus 317		Mua 110	Mus 162	
His 289	Hist 356	HI	Mus 281	Mus 212		Mua 113	Mus 180	
His 290	Hist 389	HI	Mus 282	Mus elective		Mua 114	Mus 180	
His 293	Hist 358	HI	Mus 295	Mus 499		Mua 116	Mus 167	
His 297	Hist elective	HI	Mus 299	Mus 499		Mua 117	Mus 167	
His 299	Hist 399	HI				Mua 119	Mus 168	
INTERDISCIPLINARY STUDIES			MUSIC - APPLIED			Mua 120	Mus 168	
Int 290	Elective		Mua 001	Mus 158		Mua 122	Mus 169	
LEARNING RESOURCES			Mua 002	Mus 158		Mua 123	Mus 169	
Lea 100	Engl 099	no credit	Mua 003	Mus 159		Mua 125	Mus 171	
Lea 101	Engl 099	no credit	Mua 004	Mus 159		Mua 126	Mus 171	
Lea 102	Educ 099	no credit	Mua 005	Mus 160		Mua 128	Mus 170	
Lea 103	Educ 099	no credit	Mua 006	Mus 160		Mua 129	Mus 170	
Lea 104	Psyc 102	no credit	Mua 007	Mus 151		Mua 131	Mus 173	
Lea 105	Math 099	no credit	Mua 008	Mus 151		Mua 132	Mus 173	
Lea 106	Engl 099	no credit	Mua 009	Mus 162		Mua 133	Mus 172	
LECTURE FORUM			Mua 010	Mus 162		Mua 134	Mus 172	
Lec 100	Lect elective		Mua 011	Mus 149		Mua 135	Mus 172	
Lec 101	Lect elective		Mua 012	Mus 149		Mua 137	Mus 174	
Lec 102	LRES 101		Mua 013	Mus 180		Mua 138	Mus 174	
Lec 105	Elective		Mua 014	Mus 180		Mua 140	Mus 175	
MATHEMATICS			Mua 015	Mus elective		Mua 141	Mus 175	
Mat 081	Math 099	no credit	Mua 016	Mus 167		Mua 143	Mus 176	
Mat 085	Math 099	no credit	Mua 017	Mus 167		Mua 144	Mus 176	
Mat 087	Math 099	no credit	Mua 018	Mus elective		Mua 146	Mus 177	
Mat 090	Math 099	no credit	Mua 019	Mus 168		Mua 147	Mus 177	
Mat 091	Math 090	no credit	Mua 020	Mus 168		Mua 149	Mus 163	
Mat 092	Math 099	no credit	Mua 021	Mus elective		Mua 150	Mus 163	
Mat 094	Math 099	no credit	Mua 022	Mus 169		Mua 152	Mus 164	
Mat 095	Math 090	no credit	Mua 023	Mus 169		Mua 153	Mus 164	
Mat 097	Math 090	no credit	Mua 024	Mus elective		Mua 155	Mus 165	
Mat 105	Math 100	MATH	Mua 025	Mus 171		Mua 156	Mus 165	
Mat 108	Math 105	MATH BA; no GDR	Mua 026	Mus 171		Mua 158	Mus 166	
		BS/BM/BFA	Mua 027	Mus elective		Mua 159	Mus 166	
		MATH	Mua 028	Mus 170		Mua 161	Mus 178	
Mat 110	Math 118	MATH	Mua 029	Mus 170		Mua 162	Mus 178	
Mat 113	Math 119	MATH	Mua 030	Mus elective		Mua 163	Mus elective	
Mat 117	Math 355	MATH	Mua 031	Mus 173		Mua 164	Mus elective	
Mat 124	Math 118 & 119	MATH	Mua 032	Mus 173		Mua 169	Mus 160	
Mat 130	Math 228	MATH	Mua 033	Mus elective		Mua 170	Mus 160	
Mat 132	Math 338	MATH	Mua 034	Mus 172		Mua 203	Mus 261	
Mat 140	Math 105	MATH BA; no GDR	Mua 035	Mus 172		Mua 204	Mus 261	
		BS/BM/BFA	Mua 036	Mus elective		Mua 205	Mus 260	
		MATH	Mua 037	Mus 174		Mua 206	Mus 260	
Mat 210	Math elective	MATH	Mua 038	Mus 174		Mua 209	Mus 262	
Mat 211	Math 111	MATH	Mua 039	Mus elective		Mua 210	Mus 262	
Mat 221	Math 120	MATH	Mua 040	Mus 175		Mua 213	Mus 280	
Mat 222	Math 121		Mua 041	Mus 175		Mua 214	Mus 280	
Mat 223	Math 222		Mua 042	Mus elective		Mua 216	Mus 267	
Mat 224	Math elective		Mua 043	Mus 176		Mua 217	Mus 267	
Mat 230	Math 305		Mua 044	Mus 176		Mua 219	Mus 268	
Mat 240	Math elective		Mua 045	Mus elective		Mua 220	Mus 268	
Mat 262	Math 213		Mua 046	Mus 177		Mua 222	Mus 269	
Mat 271	Math 320		Mua 047	Mus 177		Mua 223	Mus 269	
Mat 272	Math elective		Mua 048	Mus elective		Mua 225	Mus 271	
Mat 290	Math elective		Mua 049	Mus 163		Mua 226	Mus 271	
Mat 299	Math elective		Mua 050	Mus 163		Mua 228	Mus 270	
			Mua 051	Mus elective		Mua 229	Mus 270	
METEOROLOGY			Mua 052	Mus 164		Mua 231	Mus 273	
Mlg 100	Elective	NS	Mua 053	Mus 164		Mua 232	Mus 273	
MUSIC			Mua 054	Mus elective		Mua 234	Mus 272	
Mus 070	Mus 342		Mua 055	Mus 165		Mua 235	Mus 272	
Mus 071	Mus 343		Mua 056	Mus 165		Mua 237	Mus 274	
Mus 072	Mus 341		Mua 057	Mus elective		Mua 238	Mus 274	
Mus 074	Mus 345		Mua 058	Mus 166		Mua 240	Mus 275	
Mus 075	Mus 130		Mua 059	Mus 166		Mua 241	Mus 275	
Mus 076	Mus 135		Mua 060	Mus elective		Mua 243	Mus 276	
Mus 107	Mus 151		Mua 061	Mus 178		Mua 244	Mus 276	
Mus 115	Mus 154		Mua 062	Mus 178		Mua 246	Mus 277	
Mus 130	Mus 156		Mua 063	Mus elective		Mua 247	Mus 277	
Mus 145	Mus 157		Mua 064	Mus elective		Mua 249	Mus 263	
Mus 147	Mus elective		Mua 065	Mus elective		Mua 250	Mus 263	

10 Equivalency Table

UW College	UWSP Equiv	UWSP GDR	UW College	UWSP Equiv	UWSP GDR	UW College	UWSP Equiv	UWSP GDR
Mua 252	Mus 264		Ped 110	Wins 158	WL/AA	Soc 120	Soc 240	SS1-MNS
Mua 253	Mus 264		Ped 113	Wins 170	WL/AA	Soc 125	Soc elective	SS1
Mua 255	Mus 265		Ped 115	Wins elective	WL/AA	Soc 130	Soc 102	SS1-MNS
Mua 256	Mus 265		Ped 116	Wins 137	WL/AA	Soc 131	Soc 230	SS1
Mua 258	Mus 266		Ped 117	Wins elective	WL/AA	Soc 134	Soc 270	SS1-MNS
Mua 259	Mus 266		Ped 118	Wins 183	WL/AA	Soc 138	Soc elective	SS2-MNS
Mua 261	Mus 278		Ped 123	Wins 123	WL/HE	Soc 160	Soc elective	WL/HE
Mua 262	Mus 278		Ped 124	Wins elective	WL/HE	Soc 170	Soc elective	SS1-MNS-EL
Mua 263	Mus elective		Ped 127	HP/W 102	WL/HE	Soc 246	Soc 332	SS1
Mua 264	Mus elective		Ped 130	Coac elective		Soc 250	Soc elective	SS1
Mua 271	Mus 260		Ped 131	Coac elective		Soc 291	Soc elective	SS1
Mua 272	Mus 260		Ped 132	Coac elective		Soc 299	Soc elective	SS1
Mua 299	Mus elective		Ped 134	Coac elective		Soc 335	Soc 310	SS1
Mua 305	Mus 360		Ped 135	Coac elective		Soc 357	Soc 352	SS1
Mua 306	Mus 360		Ped 203	Rec elective		SPANISH		
NATURAL RESOURCES			Ped 204	Ped 105		Spa 101	Span 101	FL
Nat 170	1 cr/NRes elctv; 2-3 cr/NRes 150	1 cr/SS2-EL 2-3 cr/SS2-EL	Ped 205	Spor Med 351		Spa 103	Span elective	FL
PHILOSOPHY			Ped 206	Ped Elective	WL/HE	Spa 104	Span 101	FL
Phi 101	Phil 100	HU3	Ped 207	Coac 282		Spa 105	Span 102	FL
Phi 102	Phil 220	HU3	Ped 208	Ped elective		Spa 106	Span elective	FL
Phi 103	Phil elective	HU3	Ped 211	Ped elective	WL/AA	Spa 107	Span 102	FL
Phi 106	Phil elective	HU3	Ped 212	Ped elective		Spa 118	FLg 100	
Phi 201	Phil 105	HU3-NW	Ped 213	Ped elective	WL/HE	Spa 119	FLg 100	
Phi 202	Phil elective	HU3-MNS	Ped 216	Ped elective		Spa 201	Span 211	FL
Phi 203	Phil elective	HU3-MNS	Ped 217	Ped elective	SS2	Spa 203	Span elective	FL
Phi 210	Phil 121	HU3	Ped 220	Wins 147	WL/HE	Spa 204	Span 211	FL
Phi 211	Phil 121	HU3	Ped 291	Ped 399		Spa 205	Span 212	FL
Phi 220	Phil 306	HU3	Ped 299	Ped 399		Spa 206	Span elective	FL
Phi 226	Phil 301	HU3	PHYSICS			Spa 207	Span 212	FL
Phi 230	Phil elective	HU3	Phy 107	Phys elective	NS	Spa 215	FLg 100	
Phi 231	Phil elective	HU3-MNS	Phy 110	3 cr/Phys elctv 4 cr/Phys 203	NS	Spa 216	FLg 100	
Phi 232	Phil elective	HU4	Phy 120	Phys elective	NS	Spa 219	Span 318	
Phi 240	Phil 330	HU3	Phy 141	Phys 203	NS	Spa 221	Span 342	HU2
Phi 241	Phil 305	HU3	Phy 142	Phys 204	NS	Spa 222	Span 341	HU2
Phi 243	Phil 304	HU3	Phy 201	Phys 150	NS	Spa 225	Span 313	FL
Phi 244	Phil 380	HU3-EL	Phy 202	Phys 250	NS	Spa 226	Span 314	
Phi 248	Phil 302	HU3	Phy 205	Phys 300	NS	Spa 235	FLg 381	HU4
Phi 253	Phil 303	HU3	Phy 291	Phys elective		Spa 236	FLg 381	HU4-MNS
Phi 258	Phil elective	HU3	Phy 299	Phys 499		Spa 237	Span elective	HU2-MNS
Phi 291	Phil elective		PHYSIOLOGY			Spa 277	Comp Lit 350	HU2
Phi 299	Phil elective		Phs 170	Biol elective	NS	Spa 291	Span 493	HU2
PHYSICAL EDUCATION			Phs 202	Biol elective	NS	Spa 299	Span 499	
Ped 001	Wins 114	WL/AA	Phs 203	Biol elective	NS	WILDLIFE		
Ped 002	Wins 117	WL/AA	Phs 230	Biol elective	NS	Wil 140	NRes 250 (if FOR 120 taken)	NS
Ped 005	Wins elective	WL/AA	Phs 235	Biol 285	NS	Wildlife elective if taken alone		
Ped 006	Wins 109	WL/AA	Phs 250	Biol elective		WOMEN'S STUDIES		
Ped 007	Wins 110	WL/AA	POLITICAL SCIENCE			Wom 101	Womn 105	SS2-MNS
Ped 008	Wins 139	WL/AA	Pol 101	Poli elective	SS1	Wom 138	Womn elective	SS2-MNS
Ped 009	Wins 135	WL/AA	Pol 104	Poli 101	SS1	Wom 202	Womn elective	HU3-MNS
Ped 010	Wins 136	WL/AA	Pol 106	Poli 160	SS1-NW	Wom 208	Womn elective	SS1-MNS
Ped 012	Wins 158	WL/AA	Pol 201	Poli 270	HU3	Wom 231	Womn elective	HU4-MNS
Ped 014	Wins elective	WL/AA	Pol 204	Poli 201	SS1	Wom 250	Womn elective	SS2-NW
Ped 016	Wins 137	WL/AA	Pol 219	Poli 202	SS1-MNS	Wom 279	Engl 285	HU2
Ped 017	Wins 138	WL/AA	Pol 220	Poli elective	SS1	Wom 291	Womn 300	HU4
Ped 018	Wins elective	WL/AA	Pol 225	Poli 242	SS1	Wom 299	Womn 499	
Ped 019	Wins 183	WL/AA	Pol 231	Poli elective	SS1-MNS	ZOOLOGY		
Ped 022	Wins elective	WL/AA	Pol 235	Poli elective	SS1-MNS	Zoo 101	Biol 160	NS
Ped 024	Wins 106	WL/AA	Pol 250	Econ 315	SS1	Zoo 105	Biol elective	NS
Ped 026	Wins 132	WL/AA	Pol 275	Poli 180	SS1-MNS	Zoo 155	Biol 383	NS
Ped 027	Wins 107	WL/AA	Pol 298	Poli 499	SS1	Zoo 170	Biol elective	NS
Ped 028	Wins 186	WL/AA	Pol 299	Poli 499		Zoo 234	Biol 286	NS
Ped 030	Wins elective	WL/AA	Pol 308	Poli 310	SS1	Zoo 237	Biol 372	NS
Ped 031	Wins elective	WL/AA	PSYCHOLOGY			Zoo 140	NRes 250 (if FOR 120 taken)	NS
Ped 032	Wins 133	WL/AA	Psy 201	Psyc 110	SS1	Biology elective if taken alone		
Ped 033	Wins 134	WL/AA	Psy 202	Psyc 110	SS1	Zoo 277	Biol 377	NS
Ped 037	Wins elective	WL/AA	Psy 203	Psyc elective		Zoo 291	Biol 498	
Ped 041	Wins 163	WL/AA	Psy 208	Psyc elective	SS1-MNS	Zoo 299	Biol 399	
Ped 042	Wins 192	WL/AA	Psy 210	Psyc 300		Zoo 315	Watr 481 (if ZOO 316 taken)	NS
Ped 043	Wins 162	WL/AA	Psy 224	Psyc elective		Biology elective if taken alone		
Ped 044	Wins elective	WL/AA	Psy 225	Psyc 389	NS	Zoo 316	Watr 481 (if ZOO 315 taken)	NS
Ped 046	Wins 145	WL/HE	Psy 250	Psyc 260	SS1	Biology elective if taken alone		
Ped 047	Wins elective	WL/AA	Psy 254	Psyc 325	NS	Zoo 350	Biol 379	NS
Ped 048	Wins 122	WL/AA	Psy 270	Psyc elective	SS1-MNS			
Ped 055	Wins 170	WL/AA	Psy 299	Psyc 399				
Ped 056	Wins 171	WL/AA	Psy 307	Psyc 301	SS1			
Ped 058	Wins 146	WL/HE	Psy 309	Psyc 351	SS1			
Ped 061	Wins 173	WL/AA	Psy 311	Psyc 490	SS1			
Ped 102	Wins elective	WL/AA	Psy 330	Psyc 320	SS1			
Ped 104	Wins 117	WL/AA	Psy 360	Psyc elective	SS1			
Ped 106	Wins 164	WL/AA	Psy 362	Psyc elective	SS1			
Ped 108	Wins elective	WL/AA	SOCIOLOGY					
Ped 109	Wins 135	WL/AA	Soc 101	Soc 101	SS1-MNS			

Finances

How to Apply for Financial Aid

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

If you are a continuing student, normally a renewal FAFSA will be mailed to you by the U.S. Department of Education in December or January if you applied for aid the previous year. Complete and mail the form according to the instructions provided on it.

Financial Aid Eligibility

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

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

- Demonstrate a financial need,
- Be admitted to a UW-Stevens Point degree program,
- Not be in default on a student loan,
- Not owe a repayment on a student grant, and
- Be enrolled at least half time.

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

Financial Aid, Need-Based

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

The following categories of aid are based on need.

Grants and Waivers

- **Indian Student Assistance:** State awards, up to \$1,100, which are usually matched with a tribal grant to Wisconsin Indian students who show financial need.
- **Pell Grant:** Awards up to \$3,250 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 up to \$1,510 per academic year as determined by the Wisconsin Higher Educational Aids Board based on need.
- **Wisconsin Talent Incentive Program:** Awards up to \$1,175 to disadvantaged Wisconsin residents.
- **Nonresident Tuition Waiver:** A partial waiver of the nonresident fee for full-time students, based on need, debt, class level, and eligibility for other grants.

Jobs—Based on Need

Need a job? The Student Employment Office (SEO), 105G Student Services Center, 715-346-2174, works to connect students and employers. The SEO lists jobs in a variety of interest areas for ALL students. Each year over 900 jobs are listed for UWSP students.

- **Federal Work Study Program:** The SEO provides referrals for both on- and off-campus work study jobs for all eligible students. 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, Park and Recreation Department, and other nonprofit agencies. The SEO lists over 100 different work study positions. SEO staff members are eager to assist you in locating a job to meet your needs. Registered UWSP students can check our job listings at the SEO or on the Web at <http://stuemp1.uwsp.edu>.
- **Community Service Work Study:** These are career-oriented field experience positions that involve child care, health care, elderly care and assistance, literacy training and tutoring for low-income and disadvantaged people, and positions that contribute to the enhancement of community well-being.

Loans

- **Perkins Loans:** Loans of up to \$1,500 annually, with a maximum total of \$15,000 for all undergraduate years. The graduate student cumulative maximum is \$30,000 which includes any amount borrowed for undergraduate study.
- **Need-based Stafford Loans:** \$2,625 the first year, \$3,500 the second, and up to \$5,500 in subsequent years, to an undergraduate maximum of \$23,000. Graduate students may borrow further, up to a cumulative total of \$65,500.

Financial Aid, NOT Need-Based

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

Jobs—NOT Based on Need

- **Off-Campus Employment:** The Student Employment Office (SEO) works with the Portage County community to list local businesses' part-time employment needs and area residents' odd jobs to UWSP students. All students, regardless of need, are eligible to apply for these jobs. Many positions are within walking distance.
- **On-Campus Employment:** Approximately half of campus jobs do not require work study eligibility. Stop by the SEO and check out the job openings for various campus employers.
- **One-Time Job Lists:** Not interested in a permanent part-time position? Put your name on the "one-time" list and you may be called to help area residents with odd jobs around the house, unload a semi-truck, provide child care, or help with miscellaneous computer work. Sign up in the SEO.
- **Cooperative Education Program:** In this program you are involved in part-time or full-time work which complements an academic major or career goals.

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Contact the Career Services Office, Room 134, Main Building, (715) 346-3226 for more information.

Loans

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

Scholarships

- **Army ROTC Scholarship:** Army ROTC offers you several opportunities for scholarships worth up to \$20,000 at UW-Stevens Point (in-state). The scholarships pay full tuition and most fees, \$450.00 per year book allowance (tax free), and \$150.00 (tax free) 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 \$150.00 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 jfirkus@uwsp.edu, or visit our Web site (www.uwsp.edu/acad/rotc).
- **Simultaneous Member Program:** Many choose to serve as "office trainees" under the Simultaneous Membership Program which allows you to participate in ROTC and the Army Reserve or National Guard to gain even more experience and financial support. Currently, nonscholarship cadets belonging to the Wisconsin Army National Guard receive up to 100 percent of their college tuition for eight semesters. For more information contact the Military Science Department, Room 204 Student Services Center, phone 715-346-3821, e-mail jfirkus@uwsp.edu, or visit our Web site (www.uwsp.edu/acad/rotc).
- **Other Scholarships or Awards:** There are several places you can go to get information about scholarships not listed above:
 - * 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.
 - * The Alumni Relations Office, Room 208, Main Building, has information about general scholarships for sophomore, junior, senior, and nontraditional students.

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 awarded on a non-need basis and may be renewed. Special consideration will be given to students reflecting potential contributions to university cultural diversity leadership. Send nominations and applications each year after March 1 to the University Special Fee Remission Committee, Room 134, Old Main Building.

Military Service Benefits

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

Tuition and Fees

This is what students paid per semester when they enrolled for the 1998-99 school year. The costs have changed since this catalog was printed. To find out the most current costs, visit the Accounts Receivable Office, Room 003, Student Services Center, or call 715-346-4796.

Wisconsin Residents

Credits	U-grad	Grad	Extnsn	Extnsn
	Costs*	Costs*	U-grad	Grad
	Costs*	Costs*	Costs*	Costs*
1	\$ 147.95	\$ 204.20	\$ 147.95	\$ 204.20
2	288.95	404.93	245.48	404.93
3	429.95	605.65	366.48	605.65
4	570.95	806.38	487.48	806.38
5	711.95	1,007.10	608.48	1,007.10
6	836.15	1,199.43	721.08	1,199.43
7	940.70	1,381.93	823.75	1,381.93
8	1,045.25	1,564.43	926.63	1,564.43
9	1,149.80	1,746.43	1,029.40	1,746.43
10	1,254.35		1,132.18	
11	1,358.90		1,234.95	
12-18	1,464.45		1,338.73	
per cr/18	102.00		102.00	

Minnesota Residents

Credits	U-grad	Grad
	Costs*	Costs*
1	\$ 152.10	\$ 204.20
2	297.25	404.93
3	442.40	605.65
4	587.55	806.38
5	732.70	1,007.10
6	861.05	1,199.43
7	969.75	1,381.93
8	1,078.45	1,564.43
9	1,187.15	1,746.43
10	1,295.85	
11	1,404.55	
12-18	1,514.45	
per cr/18	106.00	

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

All Others

Credits	U-grad Costs*	Grad Costs*
1	\$ 409.70	\$ 628.95
2	812.45	1,254.43
3	1,215.20	1,879.90
4	1,617.95	2,505.38
5	2,020.70	3,130.85
6	2,406.65	3,747.93
7	2,772.95	4,355.18
8	3,139.25	4,962.43
9	3,505.55	5,568.43
10	3,871.85	
11	4,238.15	
12-18	4,605.45	
per cr/18	363.00	

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

The 95 cents United Council fee funds the United Council of UW Student Governments. The Council consists of representatives from all UW campuses, lobbies on behalf of students, and works to improve student life and services throughout the UW System. If you want a refund of your 95 cents United Council fee, write to the United Council of UW Student Governments, Room 305, 1930 Monroe Street, Madison, WI 53711. If you are 62 years of age or older, are auditing courses, or are taking off-campus courses, you are exempt from the United Council fee.

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 believe you would satisfy the requirements to pay resident fees after enrolling at UW-Stevens Point, be sure to fill out the proper forms at the Admissions Office.

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

Wisconsin Statutes Section 36.27(2):

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

Adult students: Any adult student who has been a bona fide resident of the state for 12 months next preceding the beginning of any semester or session for which such student registers at a university or center, 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 a university or center.

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 a university or center; 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 a university or center or whose legal guardian has been a bona fide resident for 12 months next preceding the beginning of any semester or session for which such student registers at a university or center.

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 a university or center.

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 a university or center, 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 a university or center; 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).

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 a university or center 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).

Resident less than 12 months: (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 a university or center, except as provided in this subsection, is not exempt from the payment of the nonresident tuition.

How to prove residency: (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

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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 operator's license, place of employment, self-support, involvement in community activities in Wisconsin, physical presence in Wisconsin for at least 12 months preceding the beginning of the semester or session for which the student registers, and, if the student is not a U.S. citizen, possession of a visa that permits indefinite residence in the United States. Notwithstanding par. (a), a student who enters and remains in this state principally to obtain an education is presumed to continue to reside outside this state and such presumption continues in effect until rebutted by clear and convincing evidence of bona fide residence.

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

Billing and Payment of Tuition/Fees

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

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

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

Finance Charges

These 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 .041095 percent per day (1.25 percent per month or 15 percent per year) on the portion of your balance which 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 which is over \$500.

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

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

Billing Under the Partial Payment Plan

1. First payment—On or before the first day of class, pay 100 percent of any previous balance plus finance

charges and 40 percent of the current semester's charges.

2. Second payment—At about the seventh week of class, pay 50 percent of your new balance plus the finance charges.
3. Third payment—At about the 11th week of classes, pay 100 percent of the remaining balance plus all remaining finance charges.
4. Fourth payment—Pay any further charges plus all finance charges at about the 15th week of classes.

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

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

Credit Agreement

If you choose the partial payment plan, sign a credit agreement application card when you register or when you go through Checkpoint. Along with your registration materials, you receive full instructions on how to pay your fees.

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

Billing Errors

If you think your bill is wrong, write us a note about the error within 60 days of receiving your billing statement. Be sure to include your name, your student ID number, the amount of the error, and a brief explanation of why your bill is wrong. Mail the note to: Accounts Receivable Office, Room 105, Student Services Center, UW-Stevens Point, Stevens Point, WI 54481-3897.

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

Refund Schedule for Tuition and Fees

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

See the section of this catalog entitled **Withdrawing from UW-Stevens Point** for further information on this subject. The table below tells what percentage of your tuition and fees we reduce when you completely withdraw from UW-Stevens Point after the first day of classes.

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

Fees for withdrawing are:

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

We use this same reduction schedule to determine how much money to refund if, when you drop one or more courses, you are less than a full-time student. If you both

add and drop courses, we determine your reduced or additional tuition and fees on the basis of the total of your adds and drops. We never charge more than full-time tuition and fees.

On-Campus Living

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

You'll find living in a residence hall an integral and dynamic part of your education at UW-Stevens Point. Through your hall you may partake in educational, social, and athletic programs, as well as other activities. You may vote to elect the student governing and programming bodies which direct your hall's activities. Professionally trained residence hall staff members are also on hand to counsel you on how to establish your university career on a firm foundation.

We estimate that for fall 1999, students will pay \$1038 each semester for a double room and \$1438 each semester for a single room in a residence hall. In the summer of 1999, students paid \$489.50 for a double room and \$694 for a single room.

As a hall resident, for a proposed cost of \$690 per semester in 1999-2000, you may select a meal plan which

provides 20 meals per week plus 10 points or 14 meals per week plus 60 points. For a proposed cost of \$724 you may select 10 meals plus 110 points, or 7 meals plus 165 points. ("Points" are credits which allow you to eat anywhere on campus.) In summer 1999, the 14 meal plan cost \$412 and the five meal plan cost \$200.

Until your junior year, your residence hall contract covers your room and board for the entire academic year. As a junior, you may request a semester contract.

Refunds for Room and Board

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

If you get married, student teach, or participate in curricular programs which require off-campus living, you may request to be released from a residence hall agreement which you have made. To do this, go to the University Housing Office in the lower level of Delzell Hall.

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



Majors, Minors, etc.

The following undergraduate degrees are offered at UW-Stevens Point: Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science and the Associate Degree.

The list below includes majors ■, minors ●, concentrations, options, areas of emphasis, and other significant courses. Topics that are teacher certifiable are marked with ▲.

- Accounting ●** (see *Managerial Accounting*)
- Anthropology ● ▲**
- Art ■ ●**
- Art ■ (Bachelor of Fine Arts)** (Areas of Emphasis) *Graphic Design, Photography, Painting, Ceramics, Sculpture, Printmaking.*
- Art History ●**
- Arts Management ■**
- Astronomy**
- Athletic Training ■**
- Biology ■ ● ▲** (Areas of Emphasis) *Aquatic Biology, Biobusiness, Biotechnology, Botany, Ecology/Environmental, Education, Microbiology, Natural History, Zoo and Aquaria, Zoology* (also see *Preprofessional*)
- Business Administration ■ ●** (Concentrations) *Forest Recreation, Social Gerontology, Soil Science, Technical Foreign Language: French/ German/ Russian/ Spanish.*
- Camp and Youth Agency Administration and Programming ●**
- Chemistry ■ ● ▲** (Option) *Polymer Chemistry ■ (ACS certified)*
- Child and Family Studies ●**
- Coaching ● ▲**
- Communication ■ ●** (Areas of Emphasis) *Interpersonal, Organizational, Mass Communication, Public Relations and Advertising*
- Communicative Disorders ■ ▲**
- Comparative Literature ●**
- Computer Information Systems ■ ● ▲** (Options) *Business, Technical Support, Data Communication, Teacher Certification*
- Computer Science ● ▲**
- Conservation Biology ●**
- Dance** (See *Theatre Arts*)
- Dietetics ■**
- Drama** (see *Theatre Arts*)
- Early Childhood Education ■ ● ▲**
- Earth Science ● ▲**
- Economics ■ ● ▲**
- Education, Elementary ■ ▲**
- Education, Secondary Certifications ▲**
- Education, Exceptional ■ ● ▲** (Minors) *Early Childhood: Special Education, or EEN with certifications in Emotional Disabilities, Learning Disabilities, Cognitive Disabilities-Borderline*
- English ■ ● ▲**
- English as a Second Language ● ▲**
- English for Elementary Education ● ▲**
- Environmental Communication ●**

- Environmental Education for Elementary and Middle School ● ▲**
- Environmental Educ/Interpretation ●** (Also see *Resource Management*)
- Environmental Law/Enforcement ●**
- Environmental Studies ●**
- Family and Consumer Education ■ ▲**
- Forest Recreation ●**
- Forestry ■ ●** (Options) *Administration and Utilization, Management, Recreation, Urban*
- French ■ ● ▲** *Cultural Studies Concentration*
- General Studies ■**
- Geography ■ ● ▲** (Options) *Cartography, Physical Environment, Regional Analysis and Community Development*
- Geology ●**
- German ■ ● ▲** *Cultural Studies Concentration*
- Gerontology ●**
- Health Education ● ▲**
- Health Promotion ■** (Wellness)
- History ■ ● ▲** (Areas of Emphasis) *European, Non-Western, United States. (Concentration) Minority and Ethnic Studies*
- Individually Planned Major ■**
- Instructional Resources**
- Interior Architecture ■**
- International Resource Management ●**
- International Studies ■ ● ▲** (Concentrations) *Asia, Europe, North America, Latin America, Middle East and Africa, Russia and Eastern Europe*
- Japanese**
- Land Use Planning ●** (Also see *Resource Management*)
- Learning Technologies ●**
- Managerial Accounting ■**
- Mathematics ■ ● ▲** (Area of Emphasis) *Actuarial*
- Mathematics, Applied ●**
- Mathematics for Elementary Educ ● ▲**
- Mathematics for Middle School ● ▲**
- Medical Technology ■**
- Military Science (Army ROTC) ●**
- Museum Techniques ●**
- Music ■ ▲** (Bachelor of Music) (Options) *Applied—Piano, Voice, String, Wind, Percussion; Jazz—Performance, Composition/Arranging; Education—Instrumental, Choral, General; Music Literature*
- Music ■** (Bachelor of Arts)
- Music ●**
- Musical Theatre** (See *Theatre Arts*)
- Native American/Rural Social Work ●**
- Natural Science ■ ▲** (Options) *Earth Science, Life Science, Physical Science*
- Natural Science, Broad-field ●**
- Nursing** (Degree through UW-Eau Claire in cooperation with St. Joseph's Hospital-Marshfield and UWSP)
- Nutrition ●**
- Paper Science ■**
- Peace Studies**
- Philosophy ■ ● ▲** *Religious Studies Concentration*

- Physical Education ■ ▲**
- Physical Education for Exceptional Individual ▲**
- Physics ■ ● ▲**
- Political Science ■ ●**
- Preprofessional** (Areas of Emphasis) *Architecture, Chiropractic, Dental, Engineering, Law, Marine Biology, Medical, Mortuary, Nursing, Occupational Therapy, Optometry, Pharmacy, Physical Therapy, Physician Assistant, Veterinary*
- Psychology ■ ● ▲** *Human Services Concentration*
- Public Administration and Policy Analysis ■ ●** (Areas of Emphasis) *Human Resources Administration, Public Finance Administration, Public Planning, Public Policy, Natural Resources and the Environment*
- Religious Studies ● ▲** (Also see *Philosophy*)
- Resource Management ■ ● ▲** (Options) *Environmental Education Interpretation, General, Land Use Planning*
- Russian ● ▲**
- Safety and Health Protection ●**
- Scientific and Technical Writing ●**
- Small City Analysis ●**
- Social Science ■ ●**
- Social Science, Broad-field ■ ● ▲**
- Social Science in Health ●**
- Social Work, Native American and Rural ●**
- Sociology ■ ● ▲** (Concentration) *Adult Life and Aging. (Areas of Emphasis) Deviance and Social Control, Family and Socialization, Social Psychology, Social Work, Urban/Community*
- Soil and Waste Resources ■ ●** (Options) *Soil Science, Waste Management*
- Spanish ■ ● ▲** *Cultural Studies Concentration*
- Technology/New Media Arts ●**
- Theatre Arts** (Options) *Dance ■ ●, Drama ■ ●, Musical Theatre ■*
- Tribal Sovereignty ●**
- Undecided/Undeclared**
- Water Resources ■ ●** (Options) *Aquatic Toxicology, Groundwater, Limnology and Fisheries, Water Chemistry, Watershed Management*
- Wildlife ■ ●**
- Wellness** (See *Health Promotion*)
- Women's Studies ●**
- Writing ●**

18 General Degree Requirements

General Degree Requirements (GDR)

In addition to being academically prepared to pursue exciting careers, UWSP graduates are expected to leave with a foundation of 14 skills and knowledges. They learn to:

Think critically. Thinking is at the very heart of what it means to be human. Students will be able to think independently, examine evidence and draw conclusions.

Be information literate. Students will be able to access, evaluate and use information they seek from local or remote libraries and databases.

Listen, read, speak and write with precision and clarity. Students will see that all the communication arts overlap and interact.

Understand the fundamentals of mathematics and quantitative reasoning and possess general problem-solving strategies.

Be scientifically literate. Students will have an understanding of scientific methods and see how science affects their lives.

Have knowledge of the arts and humanities. Students will develop their full mental and spiritual resources and be able to communicate human emotion/expression through ways other than words: with music, dance, or visual arts.

Acquire decision-making skills based on ethics and value judgments. A goal of the university is to help students engage in moral reflection by exploring various sources of values and ethical systems.

Have a global perspective. Students will have intercultural knowledge and language skills to function as citizens of the world.

Understand the impact of actions on the environment. With knowledge of natural systems, students will have the ability to make wise decisions regarding the use of our natural resources.

Understand the concept of wellness and apply it to personal lifestyles. Students will be well versed in approaches to personal health so they can enjoy life long after graduation.

Respect and understand the pluralistic nature of American society. Students will see the reality of cultural diversity and understand the implications of harassment, discrimination, bigotry and prejudice.

Understand the foundations of American democracy. Students will have a clear awareness of governmental and legal systems and a firm grounding in U.S. socio-economic, political and cultural traditions.

Understand human behavior and the nature, development and structure of human societies. The social sciences acquaint students with the basic institutions of life and show how we are influenced by them.

Appreciate the histories of societies and cultures and their interrelationships. When viewed from a historical perspective, contemporary ideas, issues and institutions take on new meaning and significance. Knowledge of history fosters civic literacy and activism and helps students make choices that will shape their future.

As part of our continuing effort to improve curriculum and the delivery of instruction, UWSP assesses its students both within their majors and in their general education. Students 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 (B.A.), bachelor of science (B.S.), or bachelor of music (B.M.) and bachelor of fine arts (B.F.A.) degree.

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

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

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

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

Test-Out & Credit-by-Exam Policy

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

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

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

You must check with each department and follow their specific requirements for testing out and/or receiving credit-by-exam for general degree requirement courses.

If you receive test-out or credit-by-exam approval for a course that meets multiple general degree requirements, passing the test will satisfy all GDR requirements that are designated for that course, excluding Writing Emphasis.

• English:

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

• Communication:

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

• Foreign Language:

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

• Mathematics:

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

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

If your math placement is:	Take for B.A.	Take for B.S. and B.M/B.F.A
1. 90	90, 100 or 105 ¹	90, 100, 4 cr beyond 100 ²
2. 90	90, 100 or 105 ¹	90, 100, 4 cr beyond 100 ²
3. 100	100 or 105 ¹	100, 4 cr beyond 100 ²
4. Any of 101, 109, 111, 118, 228, 355	Complete	4 cr beyond 100 ²
6. Any of 101, 109, 111, 118, 228, 355	Complete	2 cr beyond 100 ²
7. Any of 109, 111, 118, 228, 355	Complete	Complete
8. Any of 101, 109, 111, 119, 228, 355	Complete	Complete
9. Any of 109, 111, 120, 228, 355	Complete	Complete
98. Your placement code is tentatively 6, but you could possibly obtain a code of 7, 8, or 9 by taking an additional placement exam at the start of the semester. Get details from the Mathematics and Computing office.		
99. Your mathematics placement has not been determined. Do NOT register for any mathematics course at this time. You MUST take an additional placement exam at the start of the semester. Get details from the Mathematics and Computing office.		

NOTES:

1. You may not earn credit in both 100 and 105.
2. Courses which will satisfy the "4 credits beyond 100" are Math 101, 109, 111, 118, 119, 228 (for elementary education majors ONLY), and 355. Other courses in mathematics have prerequisites at least 4 credits beyond 100 and students taking them will have already satisfied the GDR in mathematics.
3. Math 100 is a prerequisite for Math 101, 109, 111, 118, 228, and 355. 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 you receive placement code 6 or lower, you must complete both Math 118 and 119 before taking Math 120.
4. You may not earn credit in both Math 101 and 119.

20 General Degree Requirements, B.A.

Bachelor of Arts General Degree Requirements

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

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

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

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

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

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

C. **Mathematics.** 3 credits required; Mathematics 100 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 and/or English courses, 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, 333.
Chemistry 100 or 101, 105, 106, 114/115, 116.
Geography 100(EL), 101.
Geology 100, 104, 105.
Physics 100 or 101, 115, 150, 203, 204, 250.

3. **Critical Thinking/Cultural Awareness.** 32 credits required. You must take at least one course designated non-Western (NW) culture and at least one course designated minority studies (MNS).

A. **History.** 6 credits of a two-course sequence required. History 105-106, 106-107, 107-108, 211-212, 215-216(NW), 219-220(NW), 253-254(NW), 307-308, 331-332, 337(NW)-338(NW), 339-340(NW), 345(NW)-346(NW), 377-378.

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. No history courses may be used to satisfy this requirement.

Humanities Area 1.

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

Art 181(NW), 282, 283, 284(NW), 346(NW), 347(NW), 382, 383, 385, 386, 387, 388, 389, 390, 391, 392, 395, 397.

Communication 121, 125, 171, 250, 272, 355, 360, 361, 362, 363, 369.

Dance 351, 352.

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

International Studies 301.

Music 100, 102, 103, 105(MNS), 220(NW), 221, 300 (NW when offered in Malaysia or Taiwan programs), 301, 304(MNS), 305, 307(NW), 320, 323, 326, 329, 426, 427, 428(NW).

Technology/New Media Arts 100.

Theatre 105, 329, 351, 361, 362, 451, 461(NW), 490.

Humanities Area 2

Literature:

Comparative Literature 101, 102, 243(NW), 317.
English 103, 106, 108, 170, 200, 203, 211, 212, 213, 214, 280(MNS), 281(NW), 282(MNS), 283, 285, 288, 289, 303, 308, 310, 311, 312, 313a, 313b, 314, 319, 320, 329, 330, 333, 334, 336, 361, 362, 363, 364, 365, 366, 374(NW), 378, 382, 383.

French 340, 341, 342, 350, 355, 360, 370, 493.

German 340, 355, 360, 370, 441, 442, 493.

Russian 360(NW), 370(NW), 493(NW).

Spanish 340, 341, 342, 353, 354, 493.

Theatre 352, 452.

Humanities Area 3

Philosophy, religious studies, and political theory:

Philosophy 100, 101, 104(MNS), 105(NW), 121, 230(NW), 301, 302, 303, 304, 305, 306, 307, 315, 320, 325, 326, 327, 330, 335(NW), 336, 338(NW), 340, 350, 380(EL), 381(NW).

Political Science 391, 392, 393, 394.

Religious Studies 100(NW), 101, 102(MNS),

105(NW), 107(NW), 301, 302, 303, 304, 305(NW), 310, 311(MNS), 315, 316(MNS), 321, 330, 331, 450.

Humanities Area 4

Civilization, area studies, and interdisciplinary courses:

- Foreign Language 181, 381.
- French 381.
- German 381.
- International Studies 100, 101(NW), 103, 104, 201, 202, 300, 302.
- Peace Studies 200.
- Russian 381(NW).
- Spanish 381, 382(MNS).
- Women's Studies 300, 320(MNS).

- 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. Note also that you may count Human Development 367 toward either the social science requirement or toward the wellness/health enhancement requirement, but not both. You may not earn credit in both Political Science 101 and 201.

Social Science Category 1

- Anthropology 101(NW), 110(NW), 120(NW), 250(NW), 320(NW), 322(NW), 330(NW), 334, 335(NW), 336(NW), 337(NW), 338(NW), 339(NW), 370(NW), 380(NW), 390(MNS), 395(NW).
- Economics 100, 210, 211, 311, 328, 342(EL).
- Geography 110(NW), 113(NW), 120(NW), 211, 226, 300(NW), 301(NW), 302(NW), 303(MNS), 327(NW), 328, 330(NW), 340, 368, 369, 370, 373, 374.
- Political Science 101, 160(NW), 180, 201, 202(MNS), 203, 212, 242, 250, 305, 315(MNS), 341, 361, 362(NW), 364(NW), 370(NW), 371(NW), 497.
- Psychology 110, 240, 250, 260, 315, 320, 330.
- Sociology 101(MNS), 102(MNS), 224, 225, 230, 240, 265, 270(MNS), 300, 310, 322(NW), 327, 343(NW), 360(EL), 370(NW).

Social Science Category 2

- Communication 211, 217.
- Human Development 261, 265, 367, 372.
- Natural Resources 150(EL), 270, 372.
- Political Science 306, 354, 356.
- Sociology 308, 315, 328, 355(EL), 357, 359, 366, 368.
- Women's Studies 105(MNS).

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

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

- Economics 342.
- English 392.
- Geography 100.
- History 366, 368, 394.
- Human Development 381.
- Interior Architecture 313.
- Medical Technology 395.
- Natural Resources 150, 323, 370, 395.
- Philosophy 380.
- Political Science 304.
- Safety and Health Protection 330.
- Sociology 355, 360.

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

- A. Take 1 or 2 credits in **aerobics/activity** (AA) from the following:
 - Dance 103, 104, 105, 106, 112, 114, 115, 203, 204, 205, 206, 212, 214, 215, 227, 303, 304, 305, 306, 314, 315, 327.
 - Physical Education 231.
 - Wellness 100 to 299 (labeled AA in the timetable).
- B. Take 1 or 2 credits in **health enhancement** (HE) from the following:
 - Food and Nutrition 151.
 - Health Education 140, 280.
 - Health Promotion/Wellness 102, 106, 107, 110, 142, 143, 148, 149, 299.
 - Human Development 367 (counts for this category or Social Science Area 2, but not both).
 - Psychology 255, 290.
 - Wellness 100 to 299 (labeled HE in the timetable).

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

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

22 General Degree Requirements, B.S.

Bachelor of Science General Degree Requirements

1. **Verbal and Quantitative Skills.** 11-14 credits + Writing Emphasis (WE) required.
- A. **Freshman English.** 3-6 credits required: English 101 and 102, or 150 through placement. Also see note below.

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

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

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

- B. **Communication.** 2 credits required: Communication 101.
- C. **Mathematics.** 7 credits required: Mathematics 100 plus 4 credits from Mathematics 101, 109, 111, 118, 119, 228 (for elementary education majors ONLY), 328 (for early childhood education majors ONLY), 355.

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 and/or English courses, 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, 285 (PE and HPW majors only, ending spring 2001), 333.
Chemistry 100 or 101, 105, 106, 114 and 115, 116.

Geography 100(EL), 101.
Geology 100, 104, 105.
Physics 100 or 101, 115, 150, 203, 204, 250.

3. **Critical Thinking/Cultural Awareness.** 21 credits required. You must take at least one course designated non-Western (NW) culture, and at least one designated minority studies (MNS).

A. **History.** 3 credits from the following: History 105, 106, 107, 108, 120, 130(MNS), 211, 212, 330, 331, 332, 334, 366(EL), 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 181(NW), 282, 283, 284(NW), 346(NW), 347(NW), 382, 383, 385, 386, 387, 388, 389, 390, 391, 392, 395, 397.
Communication 121, 125, 171, 250, 272, 355, 360, 361, 362, 363, 369.
Dance 351, 352.

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

International Studies 301.

Music 100, 102, 103, 105(MNS), 220(NW), 221, 300 (NW when offered in Malaysia or Taiwan programs), 301, 304(MNS), 305, 307(NW), 320, 323, 326, 329, 426, 427, 428(NW).

Technology/New Media Arts 100.

Theatre 105, 329, 351, 361, 362, 451, 461(NW), 490.

Humanities Area 2

Literature:

Comparative Literature 101, 102, 243(NW), 317.
English 103, 106, 108, 170, 200, 203, 211, 212, 213, 214, 280(MNS), 281(NW), 282(MNS), 283, 285, 288, 289, 303, 308, 310, 311, 312, 313a, 313b, 314, 319, 320, 329, 330, 333, 334, 336, 361, 362, 363, 364, 365, 366, 374(NW), 378, 382, 383.

French 340, 341, 342, 350, 355, 360, 370, 493.

German 340, 355, 360, 370, 441, 442, 493.

Russian 360(NW), 370(NW), 493(NW).

Spanish 340, 341, 342, 353, 354, 493.

Theatre 352, 452.

Humanities Area 3

Philosophy, religious studies, and political theory:

Philosophy 100, 101, 104(MNS), 105(NW), 121, 230(NW), 301, 302, 303, 304, 305, 306, 307, 315, 320, 325, 326, 327, 330, 335, 336, 338(NW), 340, 350, 380(EL), 381(NW).

Political Science 391, 392, 393, 394.

Religious Studies 100(NW), 101, 102(MNS),

105(NW), 107(NW), 301, 302, 303, 304, 305(NW), 310, 311(MNS), 315, 316(MNS), 321, 330, 331, 450.

Humanities Area 4

Civilization, area studies, and interdisciplinary courses:

Communication 364(NW).
 Foreign Language 181, 381.
 French 381.
 German 381.
 History 215(NW), 216(NW), 219(NW), 220(NW), 253(NW), 254(NW), 288(MNS), 302, 304, 305, 306, 309, 310, 312, 313, 315, 316, 318(NW), 319(NW), 321, 333, 337(NW), 338(NW), 339, 340(NW), 341(NW), 343(NW), 344(NW), 345(NW), 346(NW), 347(NW), 348(NW), 349(NW), 350(NW), 351(NW), 352(NW), 353(NW), 377, 378, 379(MNS), 382(MNS), 383, 385(MNS), 388(MNS), 392, 393. (Note that History 379, 382, and 385 meet the Wisconsin Department of Public Instruction's human relations requirement for teacher certification.)
 International Studies 100, 101(NW), 103, 104, 201, 202, 300, 302.
 Peace Studies 200.
 Russian 381(NW).
 Spanish 381, 382(MNS).
 Women's Studies 300, 320(MNS).

- 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. Note also that you may count Human Development 367 toward either the social science requirement or toward the wellness/health enhancement requirement, but not both. You may not earn credit in both Political Science 101 and 201.

Social Science Category 1

Anthropology 101(NW), 110(NW), 120(NW), 250(NW), 320(NW), 322(NW), 330(NW), 334, 335(NW), 336(NW), 337(NW), 338(NW), 339(NW), 370(NW), 380(NW), 390(MNS), 395(NW).
 Economics 100, 210, 211, 311, 328, 342(EL).
 Geography 110(NW), 113(NW), 120(NW), 211, 226, 300(NW), 301(NW), 302(NW), 303(MNS), 327(NW), 328, 330(NW), 340, 368, 369, 370, 373, 374.
 Political Science 101, 160(NW), 180, 201, 202(MNS), 203, 212, 242, 250, 305, 315(MNS), 341, 361, 362(NW), 364(NW), 370(NW), 371(NW), 497.
 Psychology 110, 240, 250, 260, 315, 320, 330.
 Sociology 101(MNS), 102(MNS), 224, 225, 230, 240, 265, 270(MNS), 300, 310, 322(NW), 327, 343(NW), 360(EL), 370(NW).

Social Science Category 2

Communication 211, 217.
 Human Development 261, 265, 367, 372.
 Natural Resources 150(EL), 270, 372.
 Political Science 306, 354, 356.
 Sociology 308, 315, 328, 355(EL), 357, 359, 366, 368.
 Women's Studies 105(MNS).

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

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

Economics 342.
 English 392.
 Geography 100.
 History 366, 368, 394.
 Human Development 381.
 Interior Architecture 313.
 Medical Technology 395.
 Natural Resources 150, 323, 370, 395.
 Philosophy 380.
 Political Science 304.
 Safety and Health Protection 330.
 Sociology 355, 360.

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

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

Dance 103, 104, 105, 106, 112, 114, 115, 203, 204, 205, 206, 212, 214, 215, 227, 303, 304, 305, 306, 314, 315, 327.
 Physical Education 231.
 Wellness 100 to 299 (labeled AA in the timetable).

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

Food and Nutrition 151.
 Health Education 140, 280.
 Health Promotion/Wellness 102, 106, 107, 110, 142, 143, 148, 149, 299.
 Human Development 367 (counts for this category or social science area 2, but not both).
 Psychology 255, 290.
 Wellness 100 to 299 (labeled HE in the timetable).

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

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

24 General Degree Requirements, B.M./B.F.A.

Bachelor of Music/ Bachelor of Fine Arts General Degree Requirements

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

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

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

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

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

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

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

- **Mathematics:** 0-7 credits required: Mathematics 100 plus 4 credits from Mathematics 101, 109, 111, 118, 119, 355. See note below.
- **Foreign Language:** 0-8 credits required: (in addition to placement into Math 100) one year of college work in one of the following sequences:
Chinese 101-102(NW).
French 101-102.
German 101-102.
Japanese 101-102(NW).
Polish 101-102.
Russian 101-102(NW).
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 and/or English courses, 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 B.F.A. major in theatre/dance, take a physical lab course.

Astronomy 100, 205, 206.

Biology 100 or 101, 130, 160, 333.

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

Geography 100(EL), 101.

Geology 100, 104, 105.

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

3. **Critical Thinking/Cultural Awareness.** 24 credits required. You must take at least one course designated non-Western (NW) culture, and at least one designated minority studies (MNS). You need a historical basis from which to view the growth, development, and future of your art discipline in the United States, in addition to the required art history component in your professional curriculum. If you seek teacher certification, you need the two-course American history sequence (History 211-212).

A. **History.** 6 credits required. History 105, 106, 107, 108, 120, 130(MNS), 211, 212, 330, 331, 332, 334, 339, 340(NW), 366(EL), 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. No history courses may be used to satisfy this requirement.

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

Art 181(NW), 282, 283, 284(NW), 346(NW), 347(NW), 382, 383, 385, 386, 387, 388, 389, 390, 391, 392, 395, 397.

Communication 121, 125, 171, 250, 272, 355, 360, 361, 362, 363, 369.

Dance 351, 352.

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

International Studies 301.

Music 100, 102, 103, 105(MNS), 220(NW), 221, 300 (NW when offered in Malaysia or Taiwan programs), 301, 304(MNS), 305, 320, 323, 326, 329, 426, 427, 428(NW).

Technology/New Media Arts 100.

Theatre 105, 329, 351, 361, 362, 451, 461(NW), 490.

Humanities Area 2: Literature:

Comparative Literature 101, 102, 243(NW), 317.
English 103, 106, 108, 170, 200, 203, 211, 212, 213, 214, 280(MNS), 281(NW), 282(MNS), 283, 285, 288, 289, 303, 308, 310, 311, 312, 313a, 313b, 314, 319, 320, 329, 330, 333, 334, 336, 361, 362, 363, 364, 365, 366, 374(NW), 378, 382, 383.

French 340, 341, 342, 350, 355, 360, 370, 493.

German 340, 355, 360, 370, 441, 442, 493.
 Russian 360(NW), 370(NW), 493(NW).
 Spanish 340, 341, 342, 353, 354, 493.
 Theatre 352, 452.

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

Philosophy 100, 101, 104(MNS), 105(NW), 121, 230(NW), 301, 302, 303, 304, 305, 306, 307, 315, 320, 325, 326, 327, 330, 335(NW), 336, 338(NW), 340, 350, 380(EL), 381(NW).
 Political Science 391, 392, 393, 394.
 Religious Studies 100(NW), 101, 102(MNS), 105(NW), 107(NW), 301, 302, 303, 304, 305(NW), 310, 311(MNS), 315, 316(MNS), 321, 330, 331, 450.

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

Foreign Language 181, 381.
 French 381.
 German 381.
 International Studies 100, 101(NW), 103, 104, 201, 202, 300, 302.
 Peace Studies 200.
 Russian 381(NW).
 Spanish 381, 382(MNS).
 Women's Studies 300, 320(MNS).

- 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. Note also that you may count Human Development 367 toward either the social science requirement or toward the wellness/health enhancement requirement, but not both. You may not earn credit in both Political Science 101 and 201.

Social Science Category 1

Anthropology 101(NW), 110(NW), 120(NW), 250(NW), 320(NW), 322(NW), 330(NW), 334, 335(NW), 336(NW), 337(NW), 338(NW), 339(NW), 370(NW), 380(NW), 390(MNS), 395(NW).
 Economics 100, 210, 211, 311, 328, 342(EL).
 Geography 110(NW), 113(NW), 120(NW), 211, 226, 300(NW), 301(NW), 302(NW), 303(MNS), 327(NW), 328, 330(NW), 340, 368, 369, 370, 373, 374.
 Political Science 101, 160(NW), 180, 201, 202(MNS), 203, 212, 242, 250, 305, 315(MNS), 341, 361, 362(NW), 364(NW), 370(NW), 371(NW), 497.
 Psychology 110, 240, 250, 260, 315, 320, 330.
 Sociology 101(MNS), 102(MNS), 224, 225, 230, 240, 265, 270(MNS), 300, 310, 322(NW), 327, 343(NW), 360(EL), 370(NW).

Social Science Category 2

Communication 211, 217.
 Human Development 261, 265, 367, 372.
 Natural Resources 150(EL), 270, 372.
 Political Science 306, 354, 356.
 Sociology 308, 315, 328, 355(EL), 357, 359, 366, 368.
 Women's Studies 105(MNS).

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

Economics 342.
 English 392
 Geography 100.
 History 366, 368, 394.
 Human Development 381.
 Interior Architecture 313.
 Medical Technology 395.
 Natural Resources 150, 323, 370, 395.
 Philosophy 380.
 Political Science 304.
 Safety and Health Protection 330.
 Sociology 355, 360.

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

A. Take 1 or 2 credits in **aerobics/activity (AA)** from the following:
 Dance 103, 104, 105, 106, 112, 114, 115, 203, 204, 205, 206, 212, 214, 215, 227, 303, 304, 305, 306, 314, 315, 327.
 Physical Education 231.
 Wellness 100-299 (labeled AA in the timetable).
 B. Take 1 or 2 credits in **health enhancement (HE)** from the following:
 Food and Nutrition 151.
 Health Education 140, 280.
 Health Promotion/Wellness 102, 106, 107, 110, 142, 143, 148, 149, 299.
 Human Development 367 (counts for this category or social science 2, but not both).
 Psychology 255, 290.
 Wellness 100-299 (labeled HE in timetable).

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

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

26 Associate Degree

Associate Degree

Student Academic Advising Center
Room 103, Student Services Center
Phone: 715-346-3361

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

1. **English**, 3-6 credits: English 101 and 102, or 150 through placement.
 2. **Communication**, 2 credits: Communication 101 or equivalent.
 3. **History, Humanities, Mathematics, Natural Science, and Social Science**: Earn a minimum of 40 credits from the following. Include at least one two-semester course sequence and one course taught from primary texts.
 - a. **Mathematics and Natural Science**: 12-16 credits.
 - 1) **Mathematics**: Minimum of 2 credits from the following courses: Mathematics 100 or 105, 101, 109, 111, 118, 119, and 355. (NOTE: *Math 105 is not a prerequisite to any other math course and will not apply to the BS and BM/BFA degrees. Math 100 is a prerequisite to 101, 109, 111, 118 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, 333. Chemistry 100 or 101, 105, 106, 114 and 115, 116. Geography 100(EL), 101. Geology 100, 104, 105. Physics 100 or 101, 115, 150, 203, 204, 250.
 - b. **History**, minimum of 3 credits from the following: History 105, 106, 107, 108, 120, 130(MNS), 211, 212, 330, 331, 332, 334, 366(EL), 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 181(NW), 282, 283, 284(NW), 346(NW), 347(NW), 382, 383, 385, 386, 387, 388, 389, 390, 391, 392, 395, 397. Communication 121, 125, 171, 250, 272, 355, 360, 361, 362, 363, 369. Dance 351, 352. Interior Architecture 150(NW), 160(MNS), 309, 310(NW). International Studies 301. Music 100, 102, 103, 105(MNS), 220(NW), 221, 300, 301, 304(MNS), 305, 307(NW), 320, 323, 326, 329, 426, 427, 428(NW). Technology/New Media Arts 100. Theatre 105, 329, 351, 361, 362, 451, 461(NW), 490.
 - 2) **Humanities Area 2: Literature**: Comparative Literature 101, 102, 243(NW), 317. English 103, 106, 108, 170, 200, 203, 211, 212, 213, 214, 280(MNS), 281(NW), 282(MNS), 283, 285, 288, 289, 303, 308, 310, 311, 312, 313a, 313b, 314, 319, 320, 329, 330, 333, 334, 336, 361, 362, 363, 364, 365, 366, 374(NW), 378, 382, 383. French 340, 341, 342, 350, 355, 360, 370, 493. German 340, 355, 360, 370, 441, 442, 493. Russian 360(NW), 370(NW), 493(NW). Spanish 340, 341, 342, 353, 354, 493. Theatre 352, 452.
 - 3) **Humanities Area 3: Philosophy, political theory, and religious studies**: Philosophy 100, 101, 104(MNS), 105(NW), 121, 230(NW), 301, 302, 303, 304, 305, 306, 307, 315, 320, 325, 326, 327, 330, 335(NW), 336, 338(NW), 340, 350, 380(EL), 381(NW). Political Science 391, 392, 393, 394. Religious Studies 100(NW), 101, 102(MNS), 105(NW), 107(NW), 301, 302, 303, 304, 305(NW), 310, 311(MNS), 315, 316(MNS), 321, 330, 331, 450.
 - 4) **Humanities Area 4: Civilization, area studies, and interdisciplinary courses**: Communication 364(NW). Foreign Language 181, 381. French 381. German 381. History 215(NW), 216(NW), 219(NW), 220(NW), 253(NW), 254(NW), 288(MNS), 302, 304, 305, 306, 309, 310, 312, 313, 315, 316, 318(NW), 319(NW), 321, 333, 337(NW), 338(NW), 339, 340(NW), 341(NW), 343(NW), 344(NW), 345(NW), 346(NW), 347(NW), 348(NW), 349(NW), 350(NW), 351(NW), 352(NW), 353(NW), 377, 378, 379(MNS), 382(MNS), 383, 385(MNS), 388(MNS), 392, 393. (Note that History 379, 382, and 385 meet the Wisconsin Department of Public Instruction's human relations requirement for teacher certification.) International Studies 100, 101(NW), 103, 104, 201, 202, 300, 302. Peace Studies 200. Russian 381(NW). Spanish 381, 382(MNS). Women's Studies 300, 320(MNS).
- 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 101(NW), 110(NW), 120, 250(NW), 320(NW), 322(NW), 330(NW), 334, 335(NW), 336(NW), 337(NW), 338(NW), 339(NW), 370(NW), 380(NW), 390(NW), 395(NW). Economics 100, 210, 211, 311, 328, 342(NW). Geography 110(NW), 113(NW), 120(NW), 211, 226, 300(NW), 301(NW), 302(NW), 303(MNS), 327(NW), 328, 330(NW), 340, 368, 369, 370, 373, 374. Political Science 101, 160(NW), 180, 201, 202(MNS), 203, 212, 242, 250, 305, 315(MNS), 341, 361, 362(NW), 364(NW), 370(NW), 371(NW), 497.

- Psychology 110, 240, 250, 260, 315, 320, 330.
Sociology 101(MNS), 102(MNS), 224, 225, 230, 240, 265, 270(MNS), 300, 310, 322(NW), 327, 343(NW), 360(EL), 370(NW).
- 2) **Social Science Category 2:**
Communication 211, 217.
Human Development 261, 265, 367, 372.
Natural Resources 150(EL), 270, 372.
Political Science 306, 354, 356.
Sociology 308, 315, 328, 355(EL), 357, 359, 366, 368.
Women's Studies 105(MNS).
4. **Wellness: 2 credits.**
 - a. **Aerobics/Activity:**
Dance 103, 104, 105, 106, 112, 114, 115, 203, 204, 205, 206, 212, 214, 215, 227, 303, 304, 305, 306, 314, 315, 327.
Physical Education 231.
Wellness 100 to 299 (labeled AA in the timetable).
 - b. **Health Enhancement:**
Food and Nutrition 151.
Health Education 140, 280.
Health Promotion/Wellness 102, 106, 107, 110, 142, 143, 148, 149, 299.
Human Development 367 (counts for HE or SS2, but not both).
Psychology 255, 290.
Wellness 100 to 299 (labeled HE in the timetable).
 5. Additional approved courses to total 60 credits. Earn a minimum of 15 credits from UW-Stevens Point. Earn a 2.0 or better grade point average.
 6. If, after you complete the associate degree, you wish to pursue a bachelor's degree here at UW-Stevens Point, you must choose among the bachelor's degrees offered here. Whichever you choose, you will need to complete additional university requirements in order to earn that degree.
 - a. **For the bachelor of arts (B.A.) degree, you need:**
 - 1) Foreign Language: 8 credits or test out.
 - 2) Natural Science: At least one lab course in each of two disciplines.
 - 3) History: 6 credits, from a two-semester sequence, as defined in the B.A. general degree requirements section of this catalog.
 - 4) Humanities: You need at least one course in each of humanities areas 1, 2, and 3, as defined in the B.A. 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 (B.S.) degree, you need:**
 - 1) Mathematics: 4 credits in addition to Mathematics 100. (NOTE: *Math 105 is not a prerequisite to any other Math course and will not apply to the B.S. and B.M./B.F.A. degrees. Math 100 is a prerequisite to 101, 109, 111, 118, and 355 and will apply to all degrees.*) See course list in the B.S. 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 (B.M./B.F.A.) degree, you need:**
 - 1) Mathematics OR Foreign Language: Choose one according to description in the B.M./B.F.A. general degree requirements section of this catalog. (NOTE: *Math 105 is not a prerequisite to any other Math course and will not apply to the B.S. and B.M./B.F.A. degrees. Math 100 is a prerequisite to 101, 109, 111, 118 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 B.M./B.F.A. general degree requirements section of this catalog.
 - 5) Minority Studies: One course.
 - 6) Environmental Literacy: 3 credits.
 - 7) Writing Emphasis: 6 credits.
 - 8) Non-Western Culture: One course.
 - 9) Earn at least 40 credits in courses numbered 300 and above.
 - 10) Wellness (physical education): Total of 3 credits (1 or 2 of aerobic activity and 1 or 2 of health enhancement).
 - 11) Earn a total of 120 credits. Some majors require more.
 - 12) An approved major.
7. If you wish to pursue a bachelor's degree at another UW System institution, you must complete the requirements of that particular institution. Your associate degree meets one part of the general degree requirements of any UW campus, but only one part. Individual campuses establish what are called competency requirements, usually in English, mathematics, and a foreign language. Your associate degree does NOT meet those competency requirements.

More Academic Information

Registration and Records Office
 David J. Eckholm, Registrar
 Larry J. Sipiorski, Associate Registrar
 Room 101, Student Services Center
 Phone: 715-346-4301
 E-mail: r&rcomm@uwsp.edu

Academic Bankruptcy

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

If you apply for academic bankruptcy, we:

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

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

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

Also realize that if you select the academic bankruptcy option, but have not maintained satisfactory academic progress, you will not be eligible for financial aid.

Academic bankruptcy does not adjust your academic progress standing. See the paragraph **Satisfactory Academic Progress** later in this section.

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

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

Academic Classification

See **Classification**.

Academic Progress

See **Satisfactory Academic Progress**.

Academic Standing

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

Adding a Course

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

Advisers

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

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

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

Student Academic Advising Center: If you have not yet declared a major, your adviser will be in the Student Academic Advising Center, Room 103, Student Services Center. If you are seeking admission to a major that has limits on the number of students enrolled; if you do not meet the minimum standards for your chosen major; or if you elect to leave a major and need help in exploring your options, advisers in the Student Academic Advising Center will assist you in examining alternatives and establishing a plan so you can earn your degree.

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

Assessment

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

Athletics

Team athletics at UWSP are affiliated with the National Collegiate Athletic Association (NCAA) Division III. Men's sports include football, cross country, wrestling, ice hockey, basketball, swimming and diving, track and field, and baseball. Women's sports include soccer, cross country, 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 the Sports Information Office at 715-346-2840 or the Department of Athletics at 715-346-3888.

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

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

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

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

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

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

Auditing

"Auditing" means you attend class regularly without having to take exams, do laboratory work, participate in class discussions, or do any other classwork except listen. You may audit as many courses as you wish, up to 5 credits beyond the normal maximum study load. (See Study Loads.) You receive no academic credit for auditing a course, but you may take the course again for credit.

To audit a course:

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

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

Fees for audited courses are as follows:

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

- If you are enrolled for credit and audit, you will be assessed 100 percent of the normal academic fees for your residency.
- You will not be assessed segregated fees if you are only enrolled for audit, but you may only have access to those university facilities normally available to the general public such as the library and student union.
- You will be assessed any special fees for course instruction, if there are any.
- The general policy on the refund of academic fees will apply.
- Audited courses do NOT count toward credit load for financial aid purposes.
- 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

See **Placement**.

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 wellness credits as well as any credits you transferred from other institutions. Do not count credit earned in courses numbered 001-099.

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

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

Collaborative Degree Program

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

Continuing Education

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

Correspondence Courses

UW-Stevens Point does not offer correspondence courses. But you may earn correspondence credit from other accredited universities and transfer the credit to apply toward your degree at UWSP. Check with your department chair before enrolling in a correspondence course to be sure the course will apply toward your major, or in the case of GDR requirements, the Registration and Records Office. If you are taking correspondence courses and

UWSP courses at the same time, you may not exceed 18 total credits in any one semester. Make arrangements with your adviser or the head of the department of your major to proctor your exams for the correspondence course(s). See also the other sections of this catalog that deal with transferring credit.

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

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

Credits/Semester Hours

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

Dean's List

See *Honors* later in this section.

Drop/Add/Withdrawal Procedures Dropping and adding courses

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

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

Adds/Drops DURING the first eight days of the semester

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

Adds/Drops AFTER the eighth day of the semester

You may not ADD a class after the eighth day except for extenuating circumstances and only when approved by the department chair, instructor, and your adviser. You may DROP a course after the eighth day and through the ninth week of the semester, but you are encouraged to consult

with the instructor and your adviser. You may not drop a course after the ninth week except for extenuating circumstances such as serious illness, personal duress, or factors beyond your control as determined by the Student Academic Advising Center.

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

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

Withdrawing from UW-Stevens Point

If you decide to leave the university, contact the Student Academic Advising Center, Room 103, Student Services Center to withdraw. You cannot officially withdraw from the university by simply leaving.

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

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

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

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

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

Employment Statistics

See *Placement*.

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 examination 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

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department chair and the dean and provides a make-up examination.

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

Grade Review

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

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

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

1. You meet with the coordinator and discuss your grounds for appeal, the appeal process, and the options available to the Grade Review Subcommittee if the appeal is sustained.
2. The coordinator gives a copy of your appeal to your instructor and asks the instructor to respond to it in writing within 20 working days.
3. After 20 working days, the coordinator evaluates the allegations and determines whether 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 by the subcommittee, 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 an 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 INC 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.

At the end of each term, we mail a report of your grades (and, if applicable, a notice of suspension) to you at your home address. Besides the grades listed above, you may also receive the following designations on your grade reports, none of which carry a point value:

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

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

Graduation

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

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

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

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

Graduation, Four-Year Agreement

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

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

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

Honors

Graduation Honors

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

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

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

Semester Honors—Dean's List

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

Semester highest honors are awarded for a grade point average of 3.90 or above; high honors are awarded for a

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

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

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

Department Honors Program

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

Incompletes

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

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

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 Records Office which will then send you an updated copy of your record. If you do not receive an updated copy of your record after a reasonable waiting period, you should contact your instructor. Your final grade will not change any prior academic status.

Interim Sessions

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

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International Programs

David Staszak, Director
Mark Koepke, Assistant Director
Room 108, Collins Classroom Center
Phone: 715-346-2717
FAX: 715-346-3591
E-mail: intlprog@uwsp.edu
Web site: <http://www.uwsp.edu/acad/internat/>

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 the majority of students. Financial aid money can be applied, and scholarships are available to qualified applicants.

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

In Europe you may study in Britain, France, Germany, Poland, or Spain. In the South Pacific you may study for a semester in Australia with stops in New Zealand and Fiji. Interim and summer programs feature varying locations and themes such as tropical ecology in Costa Rica and Africa, culture in China, mystery and crime writers or theater in London, music in Austria and Germany, and architecture and design in such countries as Greece, Italy, and France.

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

Late Registration

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

Major or Minor Declaration

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

It is up to you to be sure that you complete all the requirements for your major and minor. Check regularly with an adviser in each department in which you are majoring and minoring to make sure you are meeting all of the requirements. You must have a cumulative grade point average of 2.00 in your major(s)/minor(s), including prescribed collateral courses, in order to be eligible for departmental approval to graduate with the major(s)/minor(s), unless the department requires a higher grade point average. To see the current requirements for each major and minor, check the requirements under **Courses of Instruction** earlier 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 and send a copy of the notification to the Records Office. If you are in good standing as a major during your junior year but do not continue to meet the standards of your department 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 that 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 discontinue you as a candidate. To do so, they notify you in writing and send a copy of the notification to the Records Office.

Minimum Acceptable Standards

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

Nontraditional Students

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

Pass/Fail Grading

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

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

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

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

Only undergraduate courses are included in the pass/fail program. You may select up to five pass/fail credits (other

than required wellness) each semester. However, you may count no more than 20 credits from pass/fail courses (other than required wellness) toward your degree requirements.

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

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

There are two exceptions to this rule:

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

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

Departments provide the option of a standard grade in all courses offered under the pass/fail program except for those courses and sections which the Curriculum Committee has approved as pass/fail only.

Placement (Employment) Statistics

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

Prerequisites

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

Probation/Suspension

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

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

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

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

You will be **suspended** if:

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

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

Readmission to UW-Stevens Point

See **Admissions** earlier in this catalog.

Records (Privacy and Access)

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

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

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

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

What is the definition of "education records?"

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

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

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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 Housing.

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

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

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

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

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

What is meant by the term "directory information?"

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

These categories are:

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

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

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

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

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

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

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

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

Remedial Coursework

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

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

If you enter UWSP and are placed into remedial math and/or English courses, you must complete those remedial courses 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 courses, until the requirement is met.

Repeating Courses

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

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

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

If you repeat a course which you had initially completed here, we figure only the credit and grade you earn in your last attempt in your cumulative grade point average. However, we do not expunge your original grade from your student record. This applies only when the original attempt and the repeat are taken at UW-Stevens Point.

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

Requirements

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

In general, you are required to complete the academic requirements current at the time you first enroll. However, you may choose to complete a more recent set of general degree requirements by declaring your intent in the

Records Office. You may also choose to complete a more recent set of requirements in one or more of your majors and minors with the approval of the head of the major/minor department. If you choose to meet the more recent set of major/minor requirements, you do not have to choose the more recent set of general degree requirements.

Here are some special situations:

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

Residence Requirements

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

Residency (State of Wisconsin)

See *Finances* earlier in this catalog.

Safety and Health Policy

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

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

Satisfactory Academic Progress

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

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

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

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

1. The total semester hours for which you are enrolled are all the semester hours for which you earn a grade of A, B, C, D, F, P, I, W, WF, or one of these grades followed by a plus or minus.
2. Add your earned transfer credits to your UW-Stevens Point total semester hours to determine the percentage that is required. However, the percentage is applied only to UW-Stevens Point semester hours in determining academic progress.
3. When determining your academic progress, include in your totals any credits awarded by exam.
4. There are no exceptions to this policy for students who declare academic bankruptcy.
5. 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 in order to qualify for financial aid.
6. If you have been working toward your educational objective for more than 15 years and/or have enrolled in more than 180 undergraduate credits, you will no longer be making satisfactory academic progress and will lose financial aid eligibility.
7. If you are found to be ineligible to receive financial aid due to unsatisfactory academic progress, you may appeal for special consideration if you feel there are extenuating circumstances. You will receive information about the appeal process when you get your notice of unsatisfactory progress. Your appeal must be submitted in writing with an explanation for the lack of progress and a plan for improved performance. If your appeal is successful, the 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 which you completed for your first degree to satisfy requirements for your second degree. The major completed must be acceptable for the second degree.

Semester Hours/Credits

See *Credits/Semester Hours*.

Smoking

There is no smoking allowed anywhere in any of the campus buildings except for the dormitories, Allen Center, DeBot Center, and the University Center.

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 this office on the first floor of Delzell Hall or call them at 715-346-2611.

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

You will find copies of the University of Wisconsin System disciplinary procedures and UWSP's institutional policies under these procedures (Chapter UWSP 17) 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 through correspondence, at other campuses, and distance education). You may take 17 credits with the permission of your adviser.

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

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

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

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

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

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

Summer Sessions

From mid-May to mid-August you may take part in undergraduate or graduate summer school courses lasting from one to eight weeks. Classes generally meet Monday through Thursday. You may also take part in any of several summer session camp programs. Ask your adviser if credits in one of these would apply toward your requirements.

If you are a high school graduate not otherwise eligible for admission to UW-Stevens Point, you may be allowed to establish your eligibility by attending summer school. Please check with the Admissions Office before you sign up for any summer session classes. Because enrollment limits have been established, they may have to suspend this policy. You can get a summer session schedule of classes from the Registration and Records Office.

Suspension

See *Probation/Suspension*.

Transcripts

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

You may order copies of your transcript by submitting a written request to the Registration and Records Office, Room 101, Student Services Center. There is a charge of \$4.00 per transcript. In order to receive a transcript or diploma, you must have paid all your financial obligations to UW-Stevens Point.

Transferred Credits

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

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

Because different institutions use different course numbering systems, we may not consider a course numbered 300 or above at another institution to be equivalent to a course we number 300 or above here. Direct any questions about the transfer of your credits to the Admissions Office, Room 102, Student Services Center.

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

Tutoring Services

With a staff of around 175 peer tutors, the Tutoring-Learning Center (TLC) offers tutoring to students in many majors and from many backgrounds. Each academic year, TLC peer tutors work with more than 25 percent of the student body, from freshmen to graduate students. The TLC also offers special programs serving nontraditional students, students who are learning English as their second language, and students with learning disabilities. TLC tutoring is not remedial, but is geared for the individual.

TLC Tutorial Programs

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

UWSP Extension

Marvin J. Van Kekerix, Assistant Vice Chancellor for University Extension
 Room 032, Main Building
 Phone: 715-346-3867
 E-mail: mvankeke@uwsp.edu

Credit Outreach:

Credit Outreach provides a variety of university credit courses at the graduate and undergraduate levels for professional development and/or personal enrichment of adult students. Delivery methods for classes include face-to-face, statewide television, teleconferencing, and on-line via the Internet. This office is located in Room 012, Main Building, phone 715-346-3838.

Outreach Education:

Outreach Education provides noncredit professional development and personal enrichment programming to enhance the quality of life of participants and foster community development. Included is the **Small Business Development Center (SBDC)** providing management education and assistance to small businesses and people thinking of starting a business. It offers noncredit seminars as well as individualized professional business counseling. This office is located in Room 103, Main Building, phone 715-346-3838.

University Telecommunications:

University Telecommunications and Distance Learning Resources provides on-campus television services, supports and facilitates distance learning efforts, and provides production resources for external agencies. This office is located in Room 110, Communication Arts Center, phone 715-346-2647.

Wisconsin Residency

See *Finances* earlier in this catalog.

Withdrawing from UW-Stevens Point

See *Drop/Add/Withdrawal Procedures*.

Year in School

See *Classification/Year in School*.

College of Fine Arts and Communication (COFAC)

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

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

Curriculum in Fine Arts and Communication

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

- History, criticism, theory, and practice in fine arts and communication.
- Practical applications in the arts and communication through laboratory, studio, internship and other experiences.



- Production and performance experiences through art exhibitions, plays, musicals, dance productions, film, radio and television broadcasting, and various other forms of communication.

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

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

Majors in Fine Arts and Communication

Degrees offered are:

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

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

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

If you wish to meet teacher certification requirements, 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, 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 Conservatory for Creative Expression, a community outreach program, and the American Suzuki Talent Education Center. The college also sponsors the annual Performing Arts Series with internationally acclaimed artists performing at the Sentry Theater.

Graduate Programs in Fine Arts and Communication

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

College of Professional Studies (CPS)

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

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), and the Division of Interior Architecture.

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

In the College of Professional Studies you:

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

Undergraduate Programs in Professional Studies

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

- School of Communicative Disorders with a major in communicative disorders.
- School of Education with majors in elementary education; early childhood education; or exceptional education with certifications in learning disabilities, emotional disabilities, cognitive disabilities-borderline, and early childhood: special education; and certifications in secondary education.
- School of Health, Exercise Science and Athletics with majors in K-12 physical education or athletic training, and minors in coaching and health education; also an add-on certification in adapted physical education.
- School of Health Promotion and Human Development with majors in health promotion, family and consumer education, dietetics, and minors in nutrition, child and family studies, and safety and health protection.
- Division of Interior Architecture with a major in interior architecture with an emphasis in lighting design or store design.
- Department of Medical Technology with a major in medical technology.

College Honors

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

Graduate Programs in Professional Studies

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

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

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



College of Letters and Science (L&S)

Justus F. Paul, Dean
Diane Gillo, Associate Dean
Jin Wang, Associate Dean
Room 130, Collins Classroom Center
Phone: 715-346-4224
E-mail: jpaul@uwsp.edu

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

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

Curriculum in Letters and Science

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



Majors in Letters and Science

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

In deciding which major to select, read the sections of this catalog under *Courses of Instruction* which deal with departments of greatest interest to you. Also read the student handbooks of these departments which describe 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 continue you 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, business administration, chemistry, comparative literature, computer information systems, earth science, economics, English, English as a second language, environmental studies, French, geography, geology, German, gerontology, history, international studies, mathematics, museum techniques, Native American and rural social work, natural science, philosophy, physics, political science, psychology, public administration and policy analysis, religious studies, Russian, small city analysis, social science, social science in health, sociology, Spanish, scientific and technical writing, women's studies, and writing.

Although you need not declare a minor in order to earn a degree in the College of Letters and Science, you may declare a minor either within or outside of the College of Letters and Science. 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 continue you if your academic record does not satisfy their regulations.

College Honors

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

Preprofessional Study

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

In the following paragraphs, you will find information on how to prepare for some professions. If you would like

more specific information or suggestions, we would be happy to send them to you.

Different schools training people for the same profession sometimes have different entrance requirements.

Generally, entrance requirements have grade point restrictions on your cumulative GPA. However, this may vary from institution to institution. At UWSP you may repeat a course for which you earned a D+ or less. A course in which you earned a grade above D+ may not be repeated.

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

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

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

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

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

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

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

Schools will decide whether to admit you based on whether you have:

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

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

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

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

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

Affiliated Centers

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

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

College of Natural Resources (CNR)

Victor D. Phillips, Dean
Christine L. Thomas, Interim Associate Dean
Susan M. Kissinger, Advising and Recruitment Coordinator
Room 100, College of Natural Resources Building
Phone: 715-346-2853
E-mail: vphillip@uwsp.edu
<http://www.uwsp.edu/acad/cnr/>

Curriculum in Natural Resources

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

Majors in Natural Resources

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

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

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

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

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

Water Resources: In water resources you select among options in limnology and fisheries, water chemistry, aquatic toxicology, groundwater management, and watershed management. Within these options, you prepare for a career with a government agency or a private firm.

Wildlife Management: 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. When you graduate,

you have met the curricular requirements for a certified wildlife biologist as established by The Wildlife Society.

Official Acceptance as a Major: You must be accepted as a major before you enroll in summer camp, internships, or the European Environmental Studies Seminar. To be accepted, you must have completed 45 university credits and have a 2.50 grade point average in courses required for your major.

Minors in Natural Resources

In the College of Natural Resources you may minor in camp and youth agency administration and programming, 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, or wildlife 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 in Room 100, CNR Building.

Summer Camp

All CNR majors except paper science, waste management, aquatic toxicology, and groundwater management, require participation in a six week summer camp or the eight week international environmental seminar after you complete your sophomore year. Through the field experience you gain at summer camp in forestry, soils, water, and wildlife, you prepare yourself for the intensive studies of your junior and senior years.

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

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

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 B.S. degree in the College of Professional Studies, or
2. Complete the general degree requirements for your B.S. 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 a grade point average of at least 2.50 in the courses required for your major, including collateral courses and summer camp. If you major in paper science, you must achieve a grade point average of at least 2.75.

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 email: cwes@uwsp.edu.

Schmeckle Reserve

The Schmeckle Reserve is a 267-acre natural area on campus where you can hike, jog, ski, or just enjoy nature on the miles of woodchipped trails and boardwalks. Many university classes are taught here. At the public visitor center you can gain experience to apply toward a major in parks and recreation, environmental education/interpretation, or other natural resource fields. This building houses the Wisconsin Conservation Hall of Fame and features exhibits on the unique natural features of the Schmeckle Reserve.

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, phone 715-453-4106 or write the Director of Treehaven, W2540 Pickerel Creek Avenue, P. O. Box 678, Tomahawk, WI 54487.



46 Courses of Instruction

Courses of Instruction

Undergraduate Course Numbers

000-099 **Precollegiate.** These courses do not carry college level credit.

100-199 **Freshman level.** These courses are open to all students without restriction, if no other prerequisite is listed.

200-299 **Sophomore level.** The basic prerequisite for these courses is "sophomore standing" which means that you must have already earned 29 college credits. If some other prerequisite is listed for the course, you must meet it in addition to having sophomore standing.

300-399 **Junior level.** The basic prerequisite for these courses is "junior standing" which means you must have already earned 59 college credits. Also meet any other prerequisites that are listed.

400-499 **Senior level.** The basic prerequisite for these courses is "senior standing" which means you must have already earned 89 college credits. Also meet any other prerequisites that are listed.

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.

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

Graduate Courses

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

Pass/Fail Courses

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

Abbreviations

The following abbreviations appear in the course descriptions.

so st	sophomore standing
jr st	junior standing
sr st	senior standing
cr	credit
approp	appropriate
con reg	concurrent registration
cons chair	consent of department chair
cons instr	consent of instructor
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 listed for their courses.

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
COM	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
WE	Writing Emphasis
WL/AA	Wellness/Aerobic Activity
WL/HE	Wellness/Health Enhancement
SS1	Social Science Category 1
SS2	Social Science Category 2

ACCOUNTING

See *Business and Economics*.

ADVERTISING

See *Communication*.

**Anthropology
(College of Letters and Science)**

Donald E. Fadner, Chair of Philosophy Department
Room 489, Collins Classroom Center
Phone: 715-346-3340

E-mail: dfadner@uwsp.edu
http://www.uwsp.edu/acad/phil/

Faculty: B Butler, TH Johnson.

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

Anthropology Minor

Consists of a minimum of 18 credits including:

1. Anthropology 101 or 110 and either 250 or 280.
2. Six additional credits in anthropology.
3. The remaining 6 credits may be completed with electives selected from appropriate courses in one or two of the following areas: anthropology, art and design, business and economics, communication, education, English, foreign languages, geography and geology, history, interior architecture, music, natural resources, philosophy, political science, religious studies, sociology, or theatre. Collateral courses must be approved by a member of the anthropology faculty.

Anthropology Minor for Teacher Certification

Consists of 22 credits.

1. Anthropology 101 or 110, 250 and 280 are required.
2. Select one course from 335, 339, or 371.
3. Complete the minor with electives from anthropology. Nine credits must be in courses numbered 300 or above.

Courses in Anthropology

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

ANTH 110(NW). Cultural Diversity in the Global System (formerly 310). 3 cr. Contemporary issues in cultural anthropology, such as continuing threats from the expanding global system to indigenous self-determination and indigenous cultural persistence and its impact on transforming world cultures. GDR:SS1

ANTH 250(NW). Introduction to Archaeology. 3 cr. Selective review of archaeological methods and evidence used to examine the development of human cultures from the Old Stone Age to the historic period. Prereq: 101 or 110 or cons instr. GDR:SS1

ANTH 280. Culture and Language. 3 cr. Basic anthropological linguistics, ethnolinguistics, language and thought, comparative and historical approaches. Prereq: So st.

ANTH 320(NW). Anthropology of Religion. 3 cr. Relationships between religion and other institutions in preliterate and peasant societies; impact of religion on the individual. Prereq: 101 or Sociology 101 or cons instr. GDR:SS1

ANTH 335(NW). Peoples of Central and South America. 3 cr. Ethnological survey; the cultural organization of Central and South American societies and the significance of social change. Prereq: 101 or 110 or cons instr. 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. Variable cr. Techniques, methods, and procedures of field and laboratory archaeology discussed and practiced in actual working conditions on an archaeological excavation. Offered in summer only. Prereq: Cons instr.

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

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

ANTH 390/590(MNS). Special Topics in Anthropology. 1-3 cr. Subtitle will designate area. May repeat for credit with different subtitle. GDR:SS1

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 or topic. May not earn credit in Geography 393 or Geology 393 under same topic or locale.

ANTH 395/595. Special Topics in Anthropology. 1-3 cr. Subtitle will designate area. May repeat for credit with different subtitle. GDR:SS1 (NW certain subtitles only)

ANTH 399. Independent Study. 1-3 cr. An independent study of any area of anthropology may be arranged with an instructor in consultation with the chair. Credit will be based on the scope of the project. May repeat for a max of 6 cr.

For more course listings in anthropology, see the *Latent Course List* at the end of this section.

APPLIED MATHEMATICS

See *Mathematics and Computing*.

APPLIED MUSIC

See *Music*.

AQUATIC TOXICOLOGY

See *Natural Resources—Water Resources*.

ARMY R.O.T.C.

See *Military Science*.



Art and Design (College of Fine Arts and Communication)

Guillermo Peñafiel, Chair
Room B-116, Fine Arts Center
Phone: 715-346-2669
E-mail: gpenafie@uwsp.edu

Faculty: L Ball, D Bywaters, K Cecil, R Dorethy, R Erickson, A Gary, C Henige, H Lasher-Oakes, J Morin, S Morrison, G Peñafiel, M Pohlkamp, J Smith, R Stolzer, R Stowers, S Sullivan, S Woods.

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

The making of works of art involving various materials and processes, 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 experience is the foundational enterprise upon which each of these experiences is based. From the technical and creative aspects of art production flow various functions, meaning, and special knowledge areas of education in the visual arts.

Professional Opportunities in Art and Design

Art and design graduates are employed in commercial and private firms, government, industry, and education fields. Some become self-employed professional artists and craftsmen. 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 the 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 B.F.A. (Bachelor of Fine Arts) program, four years of English, one year of algebra, two years of foreign language, and two years of science in high school are recommended.

Curricula in Art and Design

You may choose from a variety of curricula. The major difference found between programs is the coursework specifically related to a career or emphasis area. Some of the programs are approved by professional agencies. The Department of Art and Design prepares a curriculum guide

and provides an adviser who assists you in planning your long-range programs and specifying the exact requirements for graduation. You may use your electives to broaden your education, strengthen your area of specialization, or in some cases, meet the needs of two programs of study.

The undergraduate curricular areas are:

Drawing	Ceramics
Painting	Art History
Graphic Design	Printmaking
Photography	Sculpture
Computer Graphics	Prearchitecture

Prearchitecture: The prearchitecture program provides you with an approved preliminary program for the architecture field. Courses include Art 101, 102, 103, 282, 283, 331, and 395; plus requirements in math, English, philosophy, physics, geology, communication, and others. Since entrance requirements to individual architecture schools vary, it's a good idea to get a copy of the catalog of the specific school you plan to attend. Then your adviser can help you plan your program.

General Requirements

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

Courses for Nonart Majors

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

Exhibition Material, Visiting 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 Fine Arts Center. The gallery regularly displays traveling shows and exhibits for student and public viewing.

Course Fees

Course fees are charged for certain studio courses to cover the cost of materials supplied to you. In some other cases, you can purchase supplies on a nonprofit basis directly from the Department of Art and Design.

Art Foundation

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

Art Major (B.A.)

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

1. Art foundation, 18 credits (see above).
2. Art history, 6 credits, upper level.
3. Studio art electives, 21 credits, 200 level or above. To encourage diversity in studio selections, you must take

9 credits from one studio area, but no more than 9 credits from any single area. Select courses from drawing, painting, printmaking, photography, ceramics, sculpture, computer graphics, graphic design.

Art Major (B.F.A.)

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

1. Art foundation, 18 credits (see above).
2. One art emphasis, 30 credits (see below).
3. Twelve credits to support your emphasis in art.
4. Art history, 6 credits, upper level. (Art 393 will satisfy 3 credits of this requirement.)
5. Art electives, 9 credits.
6. Senior portfolio/exhibit, Art 491.

Emphases for Art Major (B.F.A.)

Ceramics Emphasis: Art foundation, plus Art 234, 236, 251, 261, 303, 336, 361, 403, 15 credits of 461; plus 6 credits of upper level art history. Art 490 and 491 are required, plus 13 credits of art electives.

Graphic Design Emphasis: Art foundation, plus Art 206, 207, 215, 234, 236, 308, 309, 311, 331, 393, 410, 411, 412, 413, plus 3 credits of upper level art history. Art 419 and 491 are required, plus 12 credits of art electives. One art elective must be in 3-D.

Painting Emphasis: Art foundation, plus Art 234, 236, 303, 331, 334, 336, 403; 15 credits of 434, and either 321, 322, or 323; plus 6 credits upper level art history. Art 490 and 491 are required, plus 13 credits of art electives. One art elective must be in 3-D.

Photography Emphasis: Art foundation, plus Art 215, 234, 236, 303, 320; either 321, 322, or 323; 336, 401, 403, 12 credits of 402; plus 6 credits of upper level art history. Art 490 and 491 are required, plus 13 credits of art electives. One art elective must be in 3-D.

Printmaking Emphasis: Art foundation, plus Art 234, 236, 303, 321, 322, 323, 334, 336, 403, 12 credits of 421, plus 6 credits of upper level art history. Art 490 and 491 are required, plus 13 credits of art electives. One art elective must be in 3-D.

Sculpture Emphasis: Art foundation, plus Art 234, 236, 251, 252, 261, 303, 336, 353, 354, 355, 403 or 436, 3 credits of 451 and either 398 or 3 additional credits of 451; plus 6 credits of upper level art history. Art 490 and 491 are required, plus 13 credits of art electives.

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

Art Minor

Consists of 21 credits:

1. Art 101 or Interior Architecture 101; and Art 102, 103.
2. Three studio courses, 9 credits, 200 level or above.
3. Art history, 3 credits from Art 282 or 283 or 181 (3 cr).

Art History Minor

Consists of 21 credits:

1. Art 282, 283. Take these before any of 2, 3, 4 below.
2. Three credits of American or European history.
3. Four courses of 300 or 400 level art history. Select from Art 346, 380-397, 398K, 399K. You may include

others with permission of the art history coordinator and your art department adviser.

4. Distribution:

- a. No more than three upper level history classes covering the modern period (19th and 20th centuries) may count towards the art history minor.
- b. No more than two classes covering the 20th century may count towards the art history minor.
- c. At least one upper level class must be devoted to material before the 19th century or to a non-Western subject (any period).

Academic Standards

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

If you are transferring art credits from other institutions, you must submit a portfolio and grade transcripts.

Acceptance of transfer credit depends on successful portfolio evaluation and placement.

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

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

Art Foundation Requirement: You need a 2.5 or higher GPA in the art foundation, including transfer credits and regardless of any declaration of academic bankruptcy, to maintain your status as an art major and to qualify for portfolio review. The foundation consists of Art 101, 102, 103, 104, 282, 283.

Portfolio Review: Portfolio review and approval is required before you are admitted into the B.F.A. (professional) program. Normally this review occurs during your third or fourth semester, after you complete the art foundation. If your initial portfolio review is unsuccessful, you may repeat it one time only. You may be required to take additional courses before entering a B.F.A. emphasis area.

B.F.A. Requirement: In order to complete the B.F.A. program, you must satisfy art foundation and portfolio requirements and maintain a 2.75 or higher GPA in art courses beyond the art core, including transfer credits and regardless of any declaration of academic bankruptcy. Also, for graduation, you must achieve a 2.75 or higher GPA in all art courses, and successfully present a senior exhibition (Art 491) or senior design portfolio presentation (Art 491).

B.A. Requirement: The basic art program requires a 2.5 or higher GPA, including transfer credits, regardless of any declaration of academic bankruptcy.

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

Test-Out and Credit-by-Exam Policy

The Department of Art and Design has test-out and credit-by-exam procedures for all general degree requirement (GDR) art courses which includes Art 181, 282, 283, 346, 382, 383, 385-393, and 395. If you wish to receive

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credit-by-exam, you must first confer with the faculty member who teaches the course about requirements for the exam and grading procedures. If you pass the test-out exam, the GDR requirement will be waived, you will receive credit for the course, and the course may count toward an art major and/or minor if appropriate.

The test-out exam will consist of a specific exercise or series of exercises that are different from the exams and exercises used in the existing course. The exam will be cumulative, covering all major subjects in the course. In a course with a significant research component, you may be required to do an appropriate research project. You may take a test-out exam only once.

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 for one academic year. The department policy on repeating courses and academic bankruptcy requires prior departmental authorization, but is otherwise the same as the general university policy, except where higher department GPA requirements apply.

Academic Appeal

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

Courses in Art and Design

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

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

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

ART 104. Basic 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. Does not count toward art major. Art 181 is prereq for 300 level art history courses. GDR:HU1.

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

ART 207. Basic Graphic Design. 3 cr. Structure of words and images in graphic design. Basic principles of typographic design. Prereq: Art foundation. (II)

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

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

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

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

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

ART 261. Basic Ceramics (formerly 361). 3 cr. Introduction (based on clay and glaze calculations and chemical theory) to variety of ceramic materials and processes of forming, finishing, and firing. Also, manipulative and technical skills, aesthetic exploration, ceramic tradition and contemporary trends. Prereq: 102 and 104.

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

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

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

ART 308. Letterform. 3 cr. Introduction to design of letterforms through hand and computer created characters. Aesthetic issues of form and proportion. Review of historical developments in letterform design and visual semantics. Prereq: 207. (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: 215, 308, or cons instr.

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

ART 311. Intermediate Graphic Design. 3 cr. Combines photographic, typographic, and rendered elements in applied professional and sequential problems, emphasizing design for print processes. Prereq: 206 and 207. (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. Printmaking (Intaglio). 3 cr. Introduction to intaglio as an expressive art form. Familiarization with technical and conceptual aspects through demonstrations, practice, and readings. Prereq: 104.

ART 322. Printmaking (Lithography). 3 cr. Introduction to lithography as an expressive art form. Familiarization with technical and conceptual aspects through demonstrations, practice, and readings. Prereq: 104.

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

ART 327. Collaborative Arts Performance Workshop. 3 cr. History and theory of collaborative arts; participation in student-directed multi-media performances. Team taught by art and design, music, theatre and dance. Prereq: Jr st and cons instr.

ART 331. Painting: Watercolor. 3 cr. Problems in watercolor emphasizing transparent and opaque watercolor on paper. Prereq: 103.

ART 332. Painting: Watercolor. 3 cr. Advanced problems in watercolor media. Prereq: 331.

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

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

ART 346(NW). Cultural History of Crafts. 3 cr. Seminar survey of the crafts of diverse groups of people including North and South American Indians, European folk cultures, Asian continent and island nations. Emphasis on discovering and appreciating non-Western groups, and women in the visual arts. GDR: HU1 BA BM/BFA

ART 353. Carving and Assemblage (formerly 351). 3 cr. Hand and power techniques in wood and stone carving. Cross-cultural overview of related works. Prereq: 251. Required for sculpture majors.

ART 354. Welding and Fabrication (formerly 351). 3 cr. Emphasizes metal processes including welding and fabrication including technical skills, research, and assigned projects to focus on concepts and specific media. Cross-cultural overview of related works. Prereq: 251. Required for sculpture majors.

Art 355. Metal Casting (formerly 351). 3 cr. Emphasizes foundry processes including casting, chasing and patination. Technical skills, research, and assigned projects to focus on concepts and specific media. Cross-cultural overview of related works. Prereq: 251 or 252, 354. Required for sculpture majors.

ART 361. Intermediate Ceramics (formerly 362). 3 cr. Increasing complexity in 3-D construction techniques including mold-making, surface treatments, and color use. Focus shifts from manipulative and perceptual skills to artistic goals, studio management responsibility, and production control. Prereq: 261.

ART 382. History of Ancient Greek Art. 3 cr. Survey of ancient Greek art, archaeology, and architecture, with emphasis on historical, social, cultural, and political conditions that influenced Greek art in the Bronze Age and the Archaic, Classical, and Hellenistic periods. Prereq: 282, or 181 for nonmajors. GDR:HU1

ART 383. History of Ancient Roman Art. 3 cr. Historical and cultural survey of Etruscan, Republican Roman, and Imperial Roman art, architecture and archaeology. Prereq: 282, or 181 for nonmajors. GDR:HU1

ART 385. Italian and Northern Renaissance Art I, 1250-1450. 3 cr. Survey of Italian Renaissance painting, architecture, and sculpture, from Proto-Renaissance to the peak of the Quattrocento; also early northern Renaissance art. Prereq: 283, or 181 for nonmajors. GDR:HU1

ART 386. Italian and Northern Renaissance Art II, 1450-1600. 3 cr. Survey of Italian Renaissance painting, sculpture, and architecture, from the middle of the Quattrocento through Mannerist period; also northern Renaissance and Venetian Renaissance. Prereq: 283, or 181 for nonmajors. GDR:HU1

ART 387. History of Baroque and Rococo Art. 3 cr. Historical survey of European art and architecture of the 17th and 18th centuries, the period of the "Great Masters." Especially the relationship between artistic style and history, religion, culture, economics and politics. Artists include Bernini, Caravaggio, Poussin, Rembrandt, Wren, Watteau. Prereq: 283, or 181 for nonmajors. GDR:HU1

ART 388. Nineteenth Century European Art. 3 cr. Survey of European art from Neo-Classical period through Impressionist period; emphasis on relationships between contemporary society and politics, artistic philosophies, and artistic style. Artists include David, Ingres, Gericault, Delacroix, Constable, Turner, Corot, Courbet, Millet, Manet, Moissot, the Impressionists. Prereq: 283, or 181 for nonmajors; and cons instr. GDR:HU1

ART 389. The Rise of Modernism in European Art: 1875-1945. 3 cr. Historical survey of European art and its social, political, and philosophical climate, from Post-Impressionist period through 1945. Artists and styles include: Cezanne, Degas, Post-Impressionists, Cubism, Fauvism, Dada, de Stijl, Expressionism, Surrealism, et al. Prereq: Art 283, or 181 for nonmajors, and cons instr. GDR:HU1

ART 390. American Art I: Colonial through 19th Century. 3 cr. Historical survey of American art from colonial inception through middle of the 19th century (Copley, Stuart, Hudson River School, Luminists, et al). Prereq: 283, or 181 for nonmajors, and cons instr. GDR:HU1

ART 391. American Art II: 19th Century through World War II. 3 cr. Survey of American art from birth of American "modernism" 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: Art 283, or 181 for nonmajors, and cons instr. GDR:HU1

ART 392. American and European Art Since World War II. 3 cr. Survey of all manifestations of contemporary art. Prereq: 283, or 181 for nonmajors, and cons instr. GDR:HU1

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

ART 395. History of Modern Architecture and Design. 3 cr. Survey of modern architecture and design in 19th and 20th centuries.

ART 397. Art History in International Programs. 3 cr. Advanced art history course during UWSP International Programs semester abroad or study tour. Subject varies depending on destination and resources. Emphasis on art and culture of area visited. May repeat 3 times (9 cr) under different subtitles. May not take on-campus course covering same material. Prereq: Admission 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 and credit value will be added each time the course is offered. Prereq: Cons chair.

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

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

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

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

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

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

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

ART 411. Advanced Graphic Design. 3 cr. Computer applications for graphic design. Advanced study and research in typographic composition and techniques in manipulation of type. Prereq: 311. (I)

ART 412. Advanced Problem Solving in Design. (formerly 316) 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 up to 6 credits. Prereq: 410. (I)

ART 413. Problem Solving in Design II-Print. 3 cr. Advanced applied problems in print design. Emphasis on formal, intellectual, aesthetic and pragmatic issues. Problems organizing word and symbol to form corporate identity. Work leading to significant portfolio development. May repeat for 6 cr max. Prereq: 412. (II)

ART 419. Design Internship. 3-9 cr. Studio experience in a chosen area design firm; credit approved on submission of portfolio and written description of experience in consultation with the firm; elective credits only. Prereq: 15 cr of advanced visual communication art studies; cons art design faculty.

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

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

ART 431. Watercolor. 3 cr. Content determined by student and instructor, based on previous coursework in watercolor. Prereq: 322.

ART 432. Watercolor. 3 cr. Senior semester professional experiences. Content determined by student and instructor. Prereq: 431.

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

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

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

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

ART 490. Senior Seminar. 3 cr. Contemporary criticism and theory for BFA students in preparation for senior exhibition. Readings from contemporary literature in the studio disciplines, discussions, presentation, and writing critical response to current issues and ideas. Prereq: Cons instr.

ART 491. Senior Exhibition. 1 cr. Student preparation, organization, and installation of an exhibition in the Edna Carlsten Gallery; faculty evaluations of exhibition. Prereq: Sr st in art major.

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

For more course listings in art and art education, see the *Latent Course List* at the end of this section.

Arts Management (College of Fine Arts and Communication)

Gerard McKenna, Coordinator
Room A202, Fine Arts Center
Phone: 715-346-4920
E-mail: gmckenna@uwsp.edu

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 the necessary theory and practice to begin a career in arts administration or gain acceptance into a graduate program.

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 in leadership, organizational development, public relations, and advertising.

The degree program offers preparation in the major with the opportunity, in consultation with your adviser, for a minor area of concentration. The program contains courses in communication with emphasis on general management and human resources, and in the arts with opportunities in music, art, dance, and theatre.

Arts Management Major (B.A.)

1. **Business**, 12 credits: Accounting 210; Business 340, 380 and either 330 or 384.
2. **Communication**, 12 credits: Communication 230 or 238, 250 and 334 or 335 or 365, and 331 or 339.
3. **Creative arts**: In consultation with the adviser, select 12 credits of courses from music, theatre, dance, art.
4. **Arts management**, 21 credits required: Arts Management 195, 395, 6 cr of 380, and 480.
5. **Minor**: In consultation with the arts management adviser, you must choose a minor within the university. (Courses in the minor cannot be counted toward creative arts, item 3 above.)

Admission Procedures and Academic Standards

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

Courses in Arts Management

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

ARTM 380. Internship in Arts Management. 2 cr. Field experience in local arts agency or campus arts office as assigned. Each internship carries assigned tasks which are evaluated at mid-semester and at the end of the course. May repeat for 6 cr max. Prereq: 195 and jr st.

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: 195 and no less than 4 cr of 380.

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

Astronomy

(College of Letters and Science)

David H. Tamres, Chair of Physics and Astronomy
 Room B-109, Science Building
 Phone: 715-346-2139
 E-mail: physics@uwsp.edu

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

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

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

ASTR 311. Introduction to Astronomy. 3 cr. Descriptive approach to astronomy through study of the solar system, stars, star clusters, nebulae, and galaxies; evening meetings required for observation; use telescopes and planetarium. Not open to students who have had 105 and 106, or 205 and 206. GDR:NS BS

ASTR 370. Astronomy for Teachers. 4 cr. An introduction, with emphasis on the Earth, moon, sun, and the total solar system, stars, star systems, and recent discoveries; emphasis on teaching. Prereq: Experience in, or preparation for teaching science.

ASTR 371. Laboratory in Planetarium Studies. 2 cr. Planetarium studies, laboratory exercises, night sky observations, geometric optics, atomic physics, spectrum analysis, celestial sphere exercises, the moon, Saturn and its rings, the sun and sunspots, stellar classification, and curriculum materials for grades K-8. 4 hrs lab per wk, night observations. Prereq: Experience in, or preparation for teaching science.

ASTR 380. Selected Topics. 1-3 cr. Subtitle will designate topic. Prereq: Cons instr.

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

AUDIOLOGY

See *Communicative Disorders*.

ATHLETIC TRAINING

See *Health, Exercise Science, and Athletics*.



Biology**(College of Letters and Science)**

Robert Bell, Chair

Room 167A, College of Natural Resources Building

Phone: 715-346-2159

E-mail: rbell@uwsp.edu

Faculty: T Barta, R Bell, D Caporale-Hartleb, S Cooper, R Crowther, JD Curtis, M Eifler, R Freckmann, V Freier, E Gasque, P Gasque, C Hartleb, R Hillier, S Jansky, Jane Johnson, W LeGrande, D Post, R Rosenfield, R Schmitz, S Sepsenwol, D Staszak, E Stern, S Taft, S Van Horn, E Wild.

NOTE: The biology major is the same regardless of the type of degree earned (B.A. or B.S.) or the college from which the student graduates. 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.

Biology Major

1. A minimum of 34 credits in biology as follows:
 - a. Biology 130, 160, 210, 305, 306, and 490 (or 498 with approved seminar designation). If you complete the College of Natural Resources summer camp, do not take 306.
 - b. One of the following: Biology 281, or 285, or 314, or 351.
 - c. An advanced **plant** biology course selected from: Biology 309, 314, 323, 326, 330, 331, 332, 333, 335, 337, 338, 342, 344, 346, 351, 355. The course must be at least 3 credits AND include laboratory. For 1- and 2-credit course combinations, you need approval from the chair.
 - d. An advanced **animal** biology course selected from: Biology 281, 285, 286, 309, 314, 317, 323, 326, 333, 360, 361, 362, 367, 370, 373, 374, 375, 376, 377, 378, 379, 381, 388; Water 387. The course must be at least 3 credits AND include laboratory. For 1- and 2-credit course combinations, you need approval from the chair.
 - e. At least one writing emphasis (WE) course in natural science (astronomy, biology, chemistry, geography, geology, physics) or from the College of Natural Resources is recommended but not required. Only courses that are part of the biology major will count toward the minimum of 34 credits for the major.
 - f. Elective credits in biology.
2. Collateral courses:
 - a. Chemistry 105 and 106, or 115 and 116. (Chemistry 115 and 116 are recommended for all students planning to enter graduate school, medical school, or veterinary medicine.)
 - b. Math 111 or 120 or 355. (Exemption from general degree requirements for mathematics does not exempt biology majors from this requirement.)

NOTES:

1. Chemistry 365 (Biochemistry); Water 387 (Aquatic Insects), 481 (Limnology), and 483 (Limnology and Fisheries Research) are acceptable as part of the biology major. See 1.f. above.

2. Courses in biology are open to all students who meet the prerequisites.

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.

NOTE: Chemistry 365, Water 387, 481, and 483 are acceptable as part of the biology minor.

Conservation Biology MinorSee *Natural Resources*.**Academic Standards and Policies**

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).

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 be assigned to advise you.
2. If you have not been admitted as a biology major upon initial enrollment, then you may apply for admission after you complete Biology 130 and 160 with a 2.50 GPA in courses required for the biology major.

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

Teacher Certification: Enrollment caps are in effect for those seeking teacher certification. Please contact the Biology Department early for entrance requirements and application procedures. Also see information about the Professional Education Program and the secondary education curriculum for teacher certification in the **Education** section of this catalog. Check with the biology chair during your junior year to be certain you have the proper courses.

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.

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. Students 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 Department Peer Assistance Center counselors and with your adviser to ensure adequate preparation for specific careers. The handbook for majors is very helpful and is available at the department office.

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.

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 Department Peer Assistance Center counselor and your adviser to find out how you might enhance these three areas.

Aquatic Biology: Recommended: 360 or 361 or Water 387; 338, 347, 374; Chemistry 220, or 325 and 326; Math 355; Physics 203, or 201 and 202; Water 481, 483. Supplementary: Biology 362, 367, 375; Water 389, 480, 482, 484, 488.

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, 326, 333, 382, 433, 498 (both immunology and DNA sequencing); chemistry minor with Chemistry 365 as elective; Physics 203 and 204; Math 111 or 120.

Botany: Recommended: 330, 337, 342, 346, 351, 355; Organic Chemistry. Supplementary: 314, 331; 333 or 355; 344, 367; Soils 260.

Ecology/Environmental: Recommended: 281 or 351; 333, 342, 360, 367, 372, Modules in Ecology; Chemistry 220; Math 355; Soils 260; Geography 379; Computer Information Systems 102, 372. Supplementary:

Geography 102, 103; Math 111; Physics 203, or 201 and 202; Political Science 304; Philosophy 380; Natural Resources 481.

Education: Recommended: 281 or 285; 330 or 342; 314 or 333 or 351. Supplementary: 355 or 384, 385, 386; 360, 367 or 372. You need a faculty adviser in biology AND one in education.

Graduate Work/Research: Most graduate programs in biology require a chemistry minor with Chemistry 365 as the elective, Physics 203 and 204, and Math 111 or 120, and 355.

Microbiology: Recommended: 314; 333, 335 or 337, 415, 498 (Immunology). Supplementary: 338, 362, 399; Math 355; chemistry minor.

Natural History: Recommended: 322, 342, 361, 367, 372, 379. Supplementary: 339, 399; Geology 101; Geography 101; Natural Resources 368, 369.

Zoo and Aquaria: Biology 281, 362, 370, 372 (4 cr) or one of the vertebrate courses: 374, 376, 377 or 378; 382, 385, 386, 388 and 499 (internship).

Zoology: Recommended: 281; 311 or 314; 370 or 371; 344 or 361 or 362 or 367; 372 or 374 or 375 or 376 or 377 or 378. Supplementary: 310, 320, 322, 373, 381, 385, 388; Water 481; Geology 339.

Preprofessional:

Although not required, we advise students in all preprofessional areas to get a bachelor of science degree before entering a professional school. *All areas listed below require Biology 160, English, humanities, psychology, sociology, and speech.* Contact the appropriate preprofessional adviser for suggested electives and requirements for specific schools at the earliest convenience.

Prechiropractic: At least 60 credits to include Biology 160, 285; Chemistry 105 and 106 (or 115 and 116), 325, 326, 328; Physics 203 and 204; English 101 and 102; Communication 101; Psychology 110; plus 3 credits of social sciences/humanities. Grades must be C or above.

Predental: Biology 285; Chemistry 114, 115, 116 (or 105 and 106), 325, 326, 328; Math 101; Physics 203, 204; additional helpful courses: Biology 210, 314, 317, 333, 370; Psychology 260 or 315.

Premarine Biology: Recommended: 281, 303, 314, 317, 333, 338, 360, 374. A chemistry minor of the following is suggested: 105 and 106 (or 115/116), 248, 325, 326, 328, 329 or 365; Math 355; Physics 203, 204.

Premedical: Biology 160, 210, 285; Chemistry 114, 115, 116, (or 105 and 106), 325, 326, 328; Physics 203 and 204; Math 111 or 120 or 355. Additional helpful courses: Biology 314, 333, 370, 382; 498 (immunology); Chemistry 365 or 260.

Premortuary: A minimum of at least 28 credits including: Business 210; one year of chemistry; Math 100.

Preoptometry: Normally, at least 90 credits including: Biology 160, 210, 317, 333; Chemistry 105 and 106 (or 115 and 116), 325, 326, 328; Math 111 and 355; Physics 203, 204; additional recommended courses are Biology 285, 286; Chemistry 365; Psychology 110, 260.

Prephysician's Assistant: Biology 160, 285, 286, 333; Chemistry 105/106, 220, 260; Psychology 110; Math 100.

Preveterinary: Biology 160, 210; chemistry minor with Chemistry 365 as the elective; Physics 203 and 204;

Math 111 or 120, or 355; freshman English; 6 credits of social science and humanities; additional helpful courses include Biology 281 or 285, 333, 362, and 388. If you are considering veterinary research, take at least some of Biology 310, 314, 317, 382, 433, and 498 (both immunology and recombinant DNA laboratory).

Courses in Biology

BIOL 100. Biological Principles and the Human Environment. 3 cr. Survey of biology emphasizing present and future relationships of humans to their environment. 2 hrs lec, 3 hrs lab per wk. Credit for graduation or general degree requirements will not be given if Biology 101 or 130 or 160 is also taken. GDR:NS

BIOL 101. General Biology. 5 cr. Biological principles; survey of a wide variety of plant and animal life. 3 hrs lec, 3 hrs lab per wk. If Biology 130 or 160 (or equiv) is taken, 101 can be counted for graduation or for the major only with cons chair. Credit for general degree requirements will not be given if Biology 130 or 160 is also taken. Additional evening test sections for major exams. GDR:NS

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

BIOL 140. Edible and Poisonous Plants. 2 cr. Identification of edible and poisonous plants, especially local wild species of higher plants; nutritional values and toxic components. 1 hr lec, 2 hrs lab per wk.

BIOL 160. Introduction to Animal Biology. 5 cr. Anatomy, physiology, adaptation, and classification of animals; morphology and anatomy of various types of animals. 3 hrs lec, 3 hrs lab per wk. Additional 2-hour test sections 4 times during the semester. GDR:NS

BIOL 210. Principles of Genetics. 3 cr. General principles of heredity and variation of plants and animals, including humans. Prereq: So st.

BIOL 281. Animal Physiology. 4 cr. Normal functions of organ systems in wild and domestic vertebrates and invertebrates. 3 hrs lec, 3 hrs lab per wk. Prereq: 160. No credit counted for graduation or major if Biology 285 (or equiv) is counted.

BIOL 285. Human Physiology. 4 cr. Normal functions of organ systems in humans; fulfills the physiology requirements for biology, human development and nutritional sciences, physical education majors, and is recommended for students with preprofessional interests in medical or allied health fields. 3 hrs lec, 3 hrs lab per wk. Prereq: 160; or 101 and Chemistry 101. No credit counted for graduation or major if Biology 281 is counted. GDR:NS BS for PE and HPW majors only, ending spring 2001.

BIOL 286. Human Anatomy. 3 cr. Gross human anatomy using models, charts, readings, and prosected cadaver demonstrations. Lecture and lab complement Biology 285 to provide general background in structure and function. For prenursing students and others preparing for health care careers. 2 hrs lec, 3 hrs lab per wk. Prereq: 285 or con reg in 285.

BIOL 305. General Ecology. 3 cr. Interrelationships of plants and animals; ecosystem concepts; organization and distribution of biotic communities; application of ecological principles to human affairs. Prereq: 101; or 130 and 160.

BIOL 306. Ecological Methods. 1 cr. Application of ecological methods in field and laboratory analyses of ecosystems. 3 hrs lab per wk. Not open to students who have completed CNR summer camp. Prereq: Con reg in 305; or 305 and cons instr.

BIOL 308/508. Ecology of the Upper Midwest. 2 cr. Survey of the boreal forest, deciduous forest, and prairie biomes. 2 hrs lec, 3 hrs lab for 8 wks. Local field trips.

BIOL 309/509. Field Biology. 3 cr. Field trips; study, collection, preparation, and identification of plants and animals. 1 hr lec, 6 hrs lab per wk. If 379 is also taken, credit counts only with cons chair. Prereq: 101, or 130 and 160.

BIOL 310/510. Experimental Genetics. 2 or 3 cr. Experimental techniques used in cellular, organismic, and population genetics. One hr lec, 3-5 hrs lab per wk. Prereq: 210 or con reg.

BIOL 311/511. General Principles of Organic Evolution. 3 cr. Natural patterns (variation, classification, phylogeny, biogeography) and processes (genetic drift, natural selection, adaptation, speciation)

that underlie the origin and diversification of life on earth. Philosophy of science and history of evolutionary theory. Character evolution and human evolutionary biology. Prereq: 130 and 160; or cons instr.

BIOL 314/514. Cell Biology. 4 cr. Structure and function of cells and organelles, including membrane structure and transport; biogenetics of mitochondria and chloroplasts; cell motility; DNA replication; protein synthesis and transport; mitosis; meiosis; cytokinesis; laboratory techniques including gel electrophoresis; phase-contrast microscopy; spectrophotometry; respirometry; radioisotope analysis; cell culture; chromosome banding; bacterial DNA transformation. 3 hrs lec, 3 hrs lab per wk. Prereq: 130, 160; Chemistry 106 or 116.

BIOL 317/517. Developmental Biology. 4 cr. Early developmental and physiological components of animal and plant species; gametogenesis, cell-cell interactions, induction effects, cell migration and organogenesis; how these processes influence developmental patterns. 3 hrs lec, 3 hrs lab per wk. Prereq: 160, Chemistry 106 or 116.

BIOL 320. Biological Technique. 4 cr. Preparation of plant and animal tissues, organs, and entire organisms for microscopic and macroscopic study. 2 hrs lec, 4 hrs lab per wk. Prereq: 101; or 130 and 160.

BIOL 321. Biological Computing. 3 cr. Use of contemporary microcomputer software and operating systems for data handling and analysis in biology and natural resources projects. Databases, spreadsheets, graphics, word processing, communication and data transfer.

BIOL 322/522. Museum Methods. 3 cr. Preparation, use, and care of natural history materials for research and exhibition; prepare educational programs for museums, nature centers, and schools; for teachers and those interested in museums or nature center professions. 6 hrs lab per wk. Prereq: Cons instr.

BIOL 323/523. Paleontology Collecting Field Trip. 3 cr. Fourteen-day field course to collect plant and animal fossils. Lectures describe geology, paleoecology, and history of areas traveled. Special fee covers transportation, dig and camp fees. Prereq: Cons instr.

BIOL 326/526. Electron Microscope Techniques. 4 cr. Fixing, embedding, microtomy, and staining of plant and animal tissues for transmission and scanning electron microscopy; electron microscope use and basic photographic darkroom techniques. 1 hr lec, 9 hrs lab per wk. Prereq: Chemistry 106 or 116; preparation in cellular biology, and cons instr.

BIOL 330/530. Plant Morphology. 4 cr. Form and structure of plants and plant parts, both vegetative and reproductive. 2 hrs lec, 4 hrs lab per wk. Prereq: 101 or 130.

BIOL 331/531. Plant Anatomy. 4 cr. Internal structures of vascular plants, emphasizing development, function, and evolutionary history. 2 hrs lec, 4 hrs lab per week. Prereq: 101 or 130.

BIOL 332/532. Paleobotany. 3 cr. Survey of fossil record of plants, emphasizing morphology (form and structure) and evolutionary trends in major plant groups; chronological successions and geographic distribution of past floras. 2 hrs lec, 2 hrs lab per wk. Prereq: 101 or 130.

BIOL 333/533. General Microbiology. 4 cr. Morphology, physiology, classification, and cultivation of bacteria and viruses, with introduction to microbial genetics, pathogenesis, and immunology. 2 hrs lec, 4 hrs lab per wk. Prereq: 101, 130, or 160; and Chemistry 106 or 116. GDR:NS

BIOL 335/535. Mycology. 4 cr. Taxonomy, morphology, physiology, and ecology of fungi; role of fungi in disease, industry, decomposition, food production, and biological research. 2 hrs lec, 4 hrs lab per wk. Prereq: 130 or cons instr.

BIOL 337/537. Plant Pathology. 3 cr. Causes, symptoms, spread, and control of plant diseases. 2 hrs lec, 2 hrs lab per wk. Prereq: 130.

BIOL 338/538. Phycology. 4 cr. Taxonomy, morphology, and ecology of algae with emphasis on local species. Field collections, small group experiments, lab analysis of field and cultured samples, and discussion of current algal research literature. 3 hrs lec, 3 hrs lab per wk. Prereq: 130, CNR or biology major or written cons instr.

BIOL 342/542. Vascular Plant Taxonomy. 3 or 4 cr. Survey of major groups with emphasis on identification, classification, and phylogeny of flowering plants. 2 hrs lec and 2-4 hrs lab per wk. Prereq: 101 or 130.

BIOL 344/544. Trees and Shrubs. 3 cr. Identify native and cultivated plants in summer and winter conditions; their use for landscaping and wildlife food; methods of vegetative propagation. 1 hr lec, 4 hrs lab per wk (some field trips). Prereq: 101 or 130.

BIOL 345/545. Agrostology. 2 cr. Structure, identification, classification, and evolution of grasses and grass-like plants. 1 hr lec, 2 hrs lab per wk. Prereq: 101 or 130.

BIOL 346/546. Essentials of Horticulture. 3 cr. Propagation, culture, improvement, and storage of flowers, fruits, ornamentals, and vegetables. 2 hrs lec, 3 hrs lab (field trips) 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, 2 1/2 hrs lab per wk. Prereq: 101 or 130.

BIOL 351/551. Plant Physiology. 4 cr. Plant-soil-water relations, transport, mineral nutrition, plant biochemistry, and the environmental and hormonal control of plant growth and development. 3 hrs lec, 3 hrs lab per wk. Prereq: 130; Chemistry 106 or 116.

BIOL 355/555. Plant Ecology. 4 cr. Plant adaptations and responses to environmental variation; structure, microenvironments, and succession of plant communities. Prereq: 305 or cons instr.

BIOL 357. Principles of Plant Community Distribution. 1 cr. Ecological survey of world vegetation, relating community form and composition to prevailing climate, soils, and past environmental change. Prereq: 308 or 355 or con reg, or cons instr.

BIOL 360. Invertebrate Zoology. 4 cr. Structure, function, classification, and life history of major groups of invertebrate animals (exclusive of insects and parasitic vertebrates). 2 hrs lec, 4 hrs lab per wk. Prereq: 101 or 160.

BIOL 361/561. Aquatic Invertebrate Zoology. 3 cr. Classification, structure, and life history of lotic and lentic freshwater invertebrates (exclusive of insects and parasites) with emphasis on Wisconsin species. 2 hrs lec, 2 hrs lab per wk. Prereq: 101 or 160.

BIOL 362/562. Animal Parasitology. 4 cr. Structure, classification, and life histories of animal parasites. 2 hrs lec, 4 hrs lab per wk. Prereq: 101 or 160.

BIOL 370/570. Comparative Vertebrate Anatomy. 4 cr. Structure and evolutionary relationships of vertebrates. 2 hrs lec, 4 hrs lab per wk. Prereq: 160.

BIOL 372/572. Biology of the Vertebrates. 1-4 cr. Classification, identification, and natural history of the vertebrates. Offered in 1-credit modules with the following titles: (1) Reptiles and Amphibians, (2) Fish, (3) Birds, (4) Mammals. 1/2 hr lec, 1 hr lab per wk per module. May not earn credit in both the module and the corresponding vertebrate course (374, 376, 377, 378).

BIOL 374/574. Ichthyology. 4 cr. Classification and natural history of fishes, with emphasis on Wisconsin food, game, and forage fishes. 2 hrs lec, 4 hrs lab per wk. Prereq: 101 or 160.

BIOL 375/575. Life History and Population Dynamics of Fishes. 3 cr. Study and analysis of reproduction, recruitment, growth, mortality, survival, habitat, food production, and population of fishes. 2 hrs lec, 3 hrs lab per wk. Prereq: 160.

BIOL 377/577. Ornithology. 3 cr. Avian taxonomy, morphology, life histories, ecology, and research methods; identify orders of birds of the world and local species. 2 hrs lec, 3 hrs lab per wk. Prereq: 101 or 160.

BIOL 378/578. Mammalogy. 3 cr. Taxonomy, zoogeography, life history, and ecology of mammals; field work. 2 hrs lec 2 hrs lab per wk.

BIOL 379/579. Field Zoology. 3 cr. Field trips; study, collection, preparation, and identification of animals. 1 hr lec, 6 hrs lab per wk. Prereq: 101 or 160.

BIOL 382/582. Endocrinology of Mammals. 3 cr. Anatomy and physiology of major endocrine glands, primarily in mammals; hormonal control systems; biosynthesis, transport, and molecular actions of hormones; common endocrine diseases; current laboratory assay methods; current advances in hormone research. Guest lecturers. Prereq: 281 or 285; Chemistry 106 or 116; organic chemistry recommended.

BIOL 388/588. Animal Behavior. 3 cr. A comparative approach to the study of animal behavior; description, classification, analysis, and evolution of behavioral patterns of vertebrates, with emphasis on

social behavior and underlying mechanisms. 2 hrs lec, 3 hrs lab per wk; individual term project. Prereq: 160.

BIOL 399/599. Independent Studies. 1 or 2 cr. Upperclass 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 member and chair.

BIOL 405/605. Ecology of Predators and Prey. 3 cr. Discussion of selected readings on the biology and ecology of predators and their prey. Prereq: 305 or cons instr.

BIOL 415/615. Advanced Microbiology. 3 cr. Biochemical cytology, physiology and genetics of microorganisms with emphasis on research and applications. 2 hrs lec, 3 hrs lab per wk. Prereq: 333/533 or cons instr.

BIOL 490/690. Seminar. 1 cr. Studies and discussions of biological problems.

BIOL 498/698. Selected Topics in Biology. 1-3 cr. Major concepts in an area of biology. Subtitle will designate area. Prereqs, lab and lec hrs will vary by topic. May repeat for credit with different subtitles. Biology 498 sections designated "seminar" can be used in place of 490 to satisfy seminar requirement.

BIOL 499. Biology Internship. 1-6 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. Additional requirements determined by instr. Credit determined by internship committee. May repeat with different experience, but max 6 cr count toward major. Prereq: Cons internship committee and instr.

BIOL 796. Independent Study. 1-3 cr. Planned reading to supplement the preparation and mechanics of the student's specialty. May repeat as topic changes. Prereq: Cons instr.

BIOL 799. Thesis. 2-6 credits.

For more course listings in biology, see the *Latent Course List* at the end of this section.

Courses in Biology Education

BIED 398. Student Teaching in Biology. Variable cr. Observation and teaching in secondary school classroom under guidance of cooperating teachers and university faculty in actual classroom situations. Prereq: Completion of DPI certified major/minor and DPI education requirements.

BIED 498. Intern Teaching. Variable cr. Structured field experiences in approved school programs. Interns are certified by the DPI and are employed under contract with schools to design, deliver, and assess instructional programs. Prereq: Completion of all methods courses and 75% of content courses in approp major. Con reg in approp section of Educ 400 may be required.

Courses in Marine Biology

The following courses are offered at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi. You may transfer the credits to UWSP. Contact the department chair for more information.

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.

BOTANY

See *Biology*.

BROADCASTING

See *Communication*.

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BROAD-FIELD NATURAL SCIENCE

See *Natural Science*.

BROAD-FIELD SOCIAL SCIENCE

See *Social Science*.

BUSINESS ADMINISTRATION

See *Business and Economics*.

Business and Economics

(College of Letters and Science)

Randy Cray, Chair of the Division of Business and Economics

Room 477, Collins Classroom Center

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Student Advising Center

Room 304B, Collins Classroom Center

Phone: 715-346-3391

Central Wisconsin Economic Research Bureau

Room 228, Collins Classroom Center

Phone: 715-346-3774

Center for Economic Education

Room 230, Collins Classroom Center

Phone: 715-346-3310

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

Faculty members of the division participate in research related to their areas of academic interest. In addition, each member is involved in professional development activities through active memberships in professional societies and associations and community agencies.

To further enhance your career preparation when you major or minor in business administration, economics or managerial accounting, you are encouraged to expand your classroom work through active participation in student and professional clubs, societies, associations, and volunteer work related to your area of study.

The Division of Business and Economics will make every effort to notify current and prospective majors of new program standards. The technique of notification will depend on the nature of the program change and may include orientation sessions, the department advising office, faculty advisers, the catalog, and letters to students.

Abbreviations:

CIS = Computer Information Systems

Econ = Economics

Math = Mathematics

Acct = Accounting

BUSINESS ADMINISTRATION

Faculty: K Bahr, C Beloin, D Gillo, J Haine, R Judy, CR Marshall, M Meyers, G Mullins, J Poutinen, T Ryan, M Tepp.

Business Administration Major

Consists of 46 credits in the following categories:

1. **Theoretical and conceptual requirements**, 22 credits:
Acct 210, 211 (211 may be waived if you are a dual

business administration/managerial accounting major); Business 380; Econ 210, 211; Math 109 or 111 or 120 or equivalent; 3 credits of statistics from any department. You must complete these courses before taking any additional 300-400 level courses.

2. **Functional competence requirements**, 15 credits: Business 330, 340, 350, 360, 370.
3. **Elective credits in business administration**, ANY 6 credits in 300-400 level courses not including Business 490, 497, 498, 499. We recommend that you take multiple courses in one interest area to develop higher levels of expertise.
4. **Integrative requirement**, 3 credits: Business 480 or 438. This is the final course in the business administration major and **MUST** be taken during the final semester of the major.
5. **Outside major, or outside minor, or area of concentration:** To major in business administration, you must complete ONE of the following: (1) second major, (2) outside minor, (3) area of concentration (of not less than 18 credits which has been approved by the Division of Business and Economics). *Note: you MAY include the economics major and minor and the managerial accounting major and minor, but NOT the business administration minor for this requirement.* Approved concentrations also include the following:
 - a. **Forest Recreation:** Forestry 330, 334, 335, 394; Natural Resources 484. Plus 6-9 credits from Forestry 381, 385; Natural Resources 382, 383, 475, 474; Water 180.
 - b. **Social Gerontology:** 18 credits from Sociology 260, 265, 308, 328 (or Econ 328), 366, 460, 467, 497 or Business/Econ 499.
 - c. **Soil Science:** Soils 364, 365, 461; Natural Resources 251, 373; and at least 2 credits from Soils 362, 465, 493; Natural Resources 335, 336, 337, 380, 476, and other related courses approved by the associate dean of the College of Natural Resources.
 - d. **Foreign Language:** The area of concentration in a foreign language is designed to provide a cross-cultural experience for students planning to work in international or multicultural environments. The area of concentration emphasizes practical language skills and knowledge of appropriate cultural forms and behavior.
 - 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.
 - 4) **Russian**, 26 credits: Russian 101, 102, 211, 215 or 216, 315 or 316, 381, and one 300 level Russian literature course.
 - e. **Wood Products Industry**, 18 credits:
 - 1) At least 8 credits from Forestry 370, 428, 429 (at least 6 cr), 499; Business 496, 497, 498, 499 (forest products subtitle).
 - 2) At least 5 credits from Forestry 232, 322, 335, 381; Natural Resources 150, 151, 320, 330, 357, 490; Paper Science 101.
 - 3) Three credits from Business 336, 341, 381, 384; Econ 342.

The division offers seminars in management taught by senior executives of leading businesses who are participating in the Executive-in-Residence Program.

Seniors majoring in business administration (other majors upon approval) may receive elective credit for participation in the seminar series.

Internships and business practicums, e.g. Small Business Institute programs, offer business administration majors (other majors upon approval) hands-on experience in an actual business environment. Each internship is tailored to the individual student.

Business Administration Minor

Consists of 24 credits:

1. Required courses: Acct 210; Econ 210; Business 380.
2. Electives: A minimum of 15 credits in business administration courses at the 300-400 level not including Business 497, 498, 499.

Academic Standards

To graduate with a major or minor in business administration, you must have a 2.5 cumulative grade point average in all major/minor required courses, including transfer courses, regardless of any declaration of academic bankruptcy. No more than one course for which you earned a D or D+ can be repeated for credit in the major or minor. For courses in which you earned an F, see the policy on repeating courses in the *More Academic Information* section of this catalog.

Courses in business administration are open to all students who meet the prerequisites.

ECONOMICS

Faculty: D Christie, R Cray, T Hofer, D Palmini, Jin Wang, L Weiser.

Economics Major

Consists of a minimum of 38 credits of economics courses.

1. **Common required core**, 23 credits.
 - a. **Theoretical and institutional requirements**, 15 credits: Econ 210, 211, 350, 360, 361.
 - b. **Quantitative requirement**, 8 credits: Econ 310 or an equivalent statistics course and Math 109 or 111 or 120.
2. **Electives:** 15 credits in additional economics courses, not including Econ 100.

We advise economics majors to take the following courses as additional electives: Acct 210, 211; CIS 101, 102; History 371, or 383.

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

Teacher Certification: If you seek teacher certification in economics, a minimum of 34 credits must be in courses designated "Economics." History 211 and 212 are recommended as electives or in partial fulfillment of the general degree requirements. An additional legislative requirement is Natural Resources 370.

Enrollment caps are in effect for those seeking teacher certification. Please contact the Business and Economics 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.

Economics Minor

Consists of 22 credits.

1. **Common required core**, 10 credits: Econ 210, 211, 310 or equivalent statistics course.
2. **Electives:** 12 credits of additional economics courses, not including Econ 100.
3. **Minor for teacher certification:** Consists of at least 24 credits. Take five courses in addition to those in the common required core above. Also, History 211 and 212 are recommended as electives or in partial fulfillment of the general degree requirements.

Academic Standards

To graduate with a major or minor in economics, you must have a 2.25 cumulative grade point average (2.75 to student teach), in all major/minor required courses, including transfer courses, regardless of any declaration of academic bankruptcy. No more than one course for which you earned a D or D+ can be repeated for credit in the major or minor. For courses in which you earned an F see the *More Academic Information* section of this catalog.

Courses in economics are open to all students who meet the prerequisites.

Test-out and Credit-by-Exam Policy

For Econ 100, 210, and 211, credit-by-exam will be granted through the appropriate CLEP examination. You must register and pay fees for CLEP exams through the UWSP Testing Service. To receive credit you must score in the 50th percentile or higher on the appropriate exam.

For all other general degree requirement courses, you may test-out, but not receive course credit. Confer with the department chair if you wish to take test-out exams for Econ 311, 328, and 342.

A faculty member who teaches the course will prepare a comprehensive exam and inform you of the criteria for passing before you take the exam. A passing grade is at least five percent above the most recent class average. You may take a test-out exam only once. You are not eligible for test-out if you are currently enrolled in the course.

MANAGERIAL ACCOUNTING

Faculty: J Dunigan, V Gruetzmacher, W Love, J McKnight.

Professional Certifications

We encourage students majoring in managerial accounting to pursue professional certification 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 (which may be taken during the final semester of coursework), and achieving professionally related experience. The certifications are granted by the related professional organizations, not by UWSP. Contact any accounting faculty member for more information.

The courses required for the managerial accounting major prepare you to sit for the CMA exam, which is administered by the Institute of Management Accountants and the CIA exam, administered by the Institute of Internal Auditors.

If you wish to sit for the CPA examination in Wisconsin after December 31, 2000, you must have completed 150

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semester hours of coursework. To do this, complete one of these:

1. A master's degree program at an affiliated university.
2. An additional, nonbusiness major at UWSP.
3. Thirty credits of additional arts and science courses at UWSP selected to enhance your career preparation.

Managerial Accounting Major

Consists of 65 credits in the following categories:

1. **Required lower division courses**, 14 credits: Acct 210; CIS 102 (spreadsheet); Econ 210, 211; Math 111 or 120.
2. **Required basic core courses**, 16 credits: Business 330, 340, 350, 380; Econ 310 or Math 355.
3. **Required accounting courses**, 28 credits: Acct 310, 311, 312, 320, 321, 330 or 331, 350, 370, 400, 411, 412.
4. **Controlled electives**, 6 credits: two courses from Acct 331 (if not used as a required course), 490; Business 341, 360.

Accounting Minor

Consists of 24 credits:

1. **Common core**, 18 credits: Acct 210, 211 or 320, 310; Econ 210; Business 340, 350.
2. **Electives**, 6 credits: Additional accounting courses at 300-400 level.

Academic Standards

To graduate with a major in managerial accounting or minor in accounting, you must have a 2.5 cumulative grade point average in all major required courses, including transfer courses, regardless of any declaration of academic bankruptcy. No more than one course for which you earned a D or D+ can be repeated for credit in the major. For courses in which you earned an F see the **More Academic Information** section of this catalog.

Courses in accounting are open to all students who meet the prerequisites.

Courses in Accounting

ACCT 210. Introductory Financial Accounting. 3 cr. Principles, concepts, and procedures of financial accounting essential to the preparation, understanding, and interpretation of accounting information. Prereq: So st.

ACCT 211. Introductory Managerial Accounting. 3 cr. The decision-making process using managerial accounting information; cost-volume-profit analysis, cost accounting systems, budgeting, and performance evaluations. Cannot take 211 after 320. Prereq: 210 or cons instr.

ACCT 290. Special Topics in Accounting. Variable cr. Subtitle will designate topic.

ACCT 299. Special Work. Underclass students may arrange for independent study with consent of the division head. Credit will be based on the scope of the project.

ACCT 310. Intermediate Accounting I. 3 cr. Concepts and procedures relating to cash, receivables, inventories, current liabilities, and fixed and intangible assets. Prereq: 210.

ACCT 311. Intermediate Accounting II. 3 cr. Concepts and procedures relating to long-term liabilities, investments, stockholders' equity, pensions, leases, income tax allocation, accounting changes, and financial statement analysis. Prereq: 310.

ACCT 312. Advanced Accounting. 3 cr. Financial accounting for governmental and other not-for-profit entities, mergers and parent-subsidary relationships, foreign currency dominated investments, SEC reporting, and partnerships. Prereq: 311.

ACCT 320. Cost Accounting I. 3 cr. Concepts and objectives of cost accounting; cost accounting information systems; cost accumulation and allocation procedures for job order costing, process costing, and joint products; planning and control of materials, labor and factory

overhead. Cannot take 211 after 320. Prereq: 210; Math 111 or equiv; CIS 102.

ACCT 321. Cost Accounting II. 3 cr. Planning, control and analysis of production and marketing costs through budgeting and standard cost accounting techniques, cost and profit analysis; quantitative methods applied to cost data; capital expenditures. Prereq: 320.

ACCT 330. Federal Individual Income Taxes. 3 cr. Examination of Federal Income Tax Law as it applies to individuals. Emphasis on general concepts, tax return preparation and tax research methods. Prereq: 310.

ACCT 331. Federal Business Income Taxes. 3 cr. Examination of Federal Income Tax Law as it applies to C corporations, S corporations, limited liability corporations, partnerships and fiduciaries. Emphasis on general concepts, tax return preparation and tax research methods. Prereq: 310.

ACCT 350. Auditing. 3 cr. Critical examination of evidence supporting financial statements, internal control, working papers, statistical sampling, and professional standards. Prereq: 311, Econ 310 or Math 355.

ACCT 370. Accounting Information Systems. 3 cr. Concepts of systems design and analysis, operating systems, accounting data entry and storage, computer evaluation and acquisition, system and application controls and auditing including practicum in accounting system design and use. Prereq: 310. May not earn credit in both Acct 370 and Business 370.

ACCT 400. The Accounting Profession. 1 cr. History and development of the accounting profession; professional employment, conduct, organizations, ethics, mores, and publications. Prereq: Cons instr.

ACCT 411. CMA Review I. 2 cr. Preparation for Parts 1 and 4 of the Certified Management Accountant examination. Part 1: economics, finance and management. Part 4: decision analysis and information systems. Prereq: Sr st; Econ 210, 211; Business 350, 380 (360 recommended); Math 111 or 120, 355 or other statistics course; Acct 370.

ACCT 412. CMA Review II. 2 cr. Preparation for Parts 2 and 3 of Certified Management Accountant examination. Part 2: financial accounting and reporting. Part 3: management reporting, analysis, and behavioral issues. Prereq: Sr st; Acct 310, 311, 312, 320, 321; Business 380; and enrolled in Acct 350.

ACCT 490. Special Topics in Accounting. Cr arranged. Subtitle will designate topic.

ACCT 497. Internship in Accounting. Cr arranged. Supervised training work program in a cooperating agency or business. Credit determined by chair upon recommendation of an accounting faculty member. Prereq: Cons chair.

ACCT 498. International Internship. 1-12 cr. Supervised training work program in an international agency or business located outside the United States. Credit determined by chair upon recommendation of managerial accounting faculty member. 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 the project. Prereq: Cons chair.

Courses in Business

BUS 100. Introduction to Business. 3 cr. Overview of business and enterprise; functional descriptions of accounting and finance, marketing, management, human resources, and issues of today's business organizations. Does not satisfy business administration, economics, or managerial accounting major or minor requirements.

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

BUS 330. Principles of Marketing. 3 cr. Study of marketing theories and concepts used in the application of marketing strategies in product development, distribution, pricing, and promotion of goods and services.

BUS 331. Marketing Research. 3 cr. Objectives and methods of acquiring data to make intelligent marketing decisions; research planning, sampling, collection methods; data analysis, interpretation, and application. Prereq: 330.

BUS 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. The role of the marketing manager in business, with emphasis on decision-making and problem-solving activities. Prereq: 330.

BUS 339. International Marketing. 3 cr. International differences in applying marketing concepts to culture, business customs, political and legal environments, trade mechanics, and market behavior when developing marketing strategies; world trade practices. Prereq: 330.

BUS 340. Business Law I. 3 cr. History of legal development, contracts, agency, sale of goods, insurance.

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

BUS 343. Principles of Insurance. 3 cr. For the nonspecialist. History of insurance, basic definitions and terminology, fields of insurance and types of carriers, insurance contract, planning and purchase of insurance.

BUS 344. Principles of Real Estate: Law and Management. 3 cr. Real estate law as related to purchase and sale transactions, construction and development, and landlord-tenant relationships; survey of urban growth patterns, appraisal analysis, mortgage risk and real estate investment analysis. Prereq: 340 or cons instr.

BUS 345. Principles of Real Estate: Marketing, Finance, and Valuation. 3 cr. Principles of land use, construction, estimating a listing price; aspects of mortgage financing, real property management, real estate office procedures, advertising property for sale, service and responsibilities to clients, providing property information and disclosure; applied aspects of the real estate listing and offer to purchase contract.

BUS 347. Life and Health Insurance. 3 cr. Individual and group life, health, and annuities from the viewpoints of the individual and the organization: a review of policy types, rate-making, regulation, employee benefits and their planning.

BUS 350. Principles of Finance. 3 cr. Business units, especially corporate, in present day enterprise; financial principles applicable to their operation. Prereq: Acct 210; approved major or minor, or cons instr.

BUS 352. Financial Management. 3 cr. Major aspects of financial decision-making, primarily using the case method; profit planning, financial budgeting, investment decisions, cost of capital, valuation, and management of circulating capital. Prereq: 350.

BUS 353. Investments. 3 cr. Construction and management of investment portfolios to meet the needs of personal and institutional investors; selection of securities to balance income, risk, and capital growth. Prereq: 350.

BUS 360. Principles of Production-Operations Management. 3 cr. Use qualitative management science techniques such as facility layout, process planning, work measurement, inventory control, scheduling, quality control, forecasting, linear programming (LP), just in time (JIT), and statistical process control (SPC) to solve operational problems. Prereq: 380; 3 cr in statistics; Math 109 or equiv.

BUS 370. Management Information Systems. 3 cr. The MIS concept: systems theory of management and organizations; viewing the firm as a system; the systems (analytical) approach to systems; functional (marketing, manufacturing, finance) information systems; planning, designing, implementing and controlling information systems. May not earn credit in both Business 370 and Acct 370.

BUS 380. Principles of Management. 3 cr. Theory of management. Explore different ways managers function in profit as well as not-for-profit business and industry organizations. Examine management behaviors from functional and organizational perspectives. Use current and library resources. Study language and philosophy of historical development and psychology of management.

BUS 381. Entrepreneurship. 3 cr. Entrepreneurship and intrapreneurship as integral components of management activity; risk-taking, decision-making, marketing, finance, personnel selection, record keeping, taxes, and controls which are unique to the

entrepreneurial-type organization and the entrepreneur-manager. Prereq: 380 or cons instr.

BUS 384. Personnel/Human Resource Management. 3 cr. Integrates the daily operational activities of personnel management, such as job analysis, training, recruiting, and performance appraisal with the long-term strategic perspective of identifying and analyzing human resource issues and trends that may affect the organization and how it is managed. Includes maternity/paternity leave, lack of unskilled workers, increase in number of dual career families, provision for individuals with disabilities. Prereq: 380.

BUS 385. Organizational Behavior. 3 cr. Behavioral approach to management which concentrates on the individual in the work place in dealing with power, authority, rules, status, norms, leadership, motivation, communication, group processes and conflict management. Prereq: 380.

BUS 386. Organizational Theory. 3 cr. Uses an open system perspective to examine how managers deal with factors that affect the organization. Factors such as environment, technology, and goals should be considered by managers in determining the nature and structure of the organization. Prereq: 380.

BUS 387. Organizational Development. 3 cr. Problems of implementing change in organizations; roles of external and internal change agents; organizational problems diagnosed and treated with appropriate techniques such as team building, motivation training, and job enrichment; results examined by measuring relevant variables. Prereq: Cons instr.

BUS 391. Small Business Management Consulting Practicum. 3 cr. Research and analysis for small business operations. Work in teams with an area business on a particular management concern in the form of a business case; written and oral presentation to the business client. Prereq: Cons instr.

BUS 433. Advertising Management. 3 cr. Strategic, creative, and financial issues of the business side of advertising including market orientation, media, developing strategies, and creating an advertising plan. Prereq: 330.

BUS 435. New Product Marketing. 3 cr. Assess the environment, resources, and competitive nature of the industry in which a firm operates. Understand product portfolio concepts, determine the firm's new product needs, and develop marketing strategies necessary to help new products become successful. Prereq: 331, 338.

BUS 436. Marketing Simulation. 3 cr. Teams compete in simulated competitive marketing environment and use computer-assisted marketing simulation with numerous decision variables to determine performance. Teams are monitored and evaluated. Prereq: 331, 338.

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 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 business administration major or cons instr.

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

BUS 496. Internship in Business Administration. 1-3 cr. Supervised training work program in a cooperating agency or business. Credit determined by internship director with recommendation of a business faculty member. Max 3 cr apply to major. Prereq: Cons internship director.

BUS 497. Internship in Business Administration. 1-6 cr. Supervised training work program in a cooperating agency or business. Credit determined by internship director with recommendation of a business faculty member. Does NOT apply to major or minor. Prereq: Cons internship director.

BUS 498. International Internship in Business Administration. 1-6 cr. Supervised training work program in a cooperating agency or business. Credit determined by internship director with recommendation of a business administration faculty member. Does NOT apply to major or minor. Prereq: Cons internship director.

BUS 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.

62 Business and Economics

Courses in Economics

ECON 100. Introduction to Economics. 3 cr. Survey of economic concepts and contemporary economic issues. The role of business, households, and government. Analysis of demand and supply, income distribution, unemployment, inflation, and business cycles. May not substitute 100 for Econ 210 or 211 to satisfy business administration, economics, and managerial accounting major or minor requirements. GDR:SS1

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 the project.

ECON 310. Statistical Methods for Business and Economic Analysis. 4 cr. Sources and effective presentation of data, descriptive statistics, probability, sampling and inference techniques, regression and correlation, time series forecasting, and index numbers using Minitab computer package. Prereq: 210; Math 100 or suitable placement test scores.

ECON 311. Public Finance. 3 cr. Impact of federal, state, and local budgets on the economy; analysis of government expenditures and taxation. Prereq: 211. GDR:SS1

ECON 320. Transportation Economics. 3 cr. Types, development, and importance to economic development of domestic and international transportation systems. Problems of pricing, markets, service, and management under regulation and deregulation. Prereq: 211.

ECON 328. Poverty, Welfare, Social Insurance. 3 cr. Poverty in the United States; income maintenance programs including social security, unemployment insurance, worker's compensation, pension plans, and social assistance; health insurance. Prereq: 210 or cons instr. May not earn credit in both Econ 328 and Sociology 328. GDR:SS1

ECON 342. Environmental Quality and Resource Development Economics. 3 cr. Economic dimensions of domestic and international environmental problems. Origins in incomplete property rights and national and regional economic growth. Role of local forest, water and recreation resources in regional economic development. Impacts of environmental policies and resource development on efficiency, effectiveness, distribution of costs and benefits, and economic growth. Prereq: 211 or Natural Resources 372. GDR:SS1,EL

ECON 345. Labor Problems. 3 cr. Employer-employee relationships; characteristics of labor markets; types of labor organizations and employer organizations; industrial disputes and devices for effecting settlements, collective bargaining and labor legislation. GDR:SS1

ECON 346. Collective Bargaining. 3 cr. Organizing and negotiating, content of collective bargaining, bargaining in public and private employment, the laws of collective bargaining. Prereq: 345 or cons instr.

ECON 350. Microeconomic Theory. 3 cr. Analytical tools for understanding demand, production and cost, impact of market structure on firms' behavior, pricing of resources, and economic welfare. Analysis of public policies. Prereq: 211.

ECON 360. Money and Financial Markets. 3 cr. Depository institutions; central banking and money creation; price level analysis; interest level determination; interest rate theory; money and capital markets. Prereq: 210 and Acct 210.

ECON 361. Macroeconomic Theory. 3 cr. Determination of levels of national income, output, employment, and prices; national income

accounting; theory and measurement of aggregate consumption and investment; government stabilization policy. Prereq: 211.

ECON 362. Economic Development. 3 cr. The stages of economic growth; study of economic conditions and policy in the underdeveloped and intermediately developed national economies. Prereq: 211.

ECON 365. International Economics. 3 cr. Foreign trade, theory and measurement of export and import patterns; foreign exchange markets, balance of payments, tariffs, and the contemporary international monetary system. Prereq: 211; or Natural Resources 372 for international resource management minors.

ECON 367. Comparative Economic Systems. 3 cr. Analysis and appraisal of the structure and function of diverse economic systems, such as capitalism, socialism, communism, and their modifications. Prereq: 210.

ECON 370. Managerial Economics. 3 cr. Economic analysis for business decision-making. Demand, elasticity and profitable pricing, cost and output decisions, statistical analysis of demand and cost, forecasting markets, long-run vs. short-run profit analysis. Prereq: 211, 310, Math 109.

ECON 374. Regional Economic Growth. 3 cr. Factors that promote and/or hinder regional economic and business growth. The geographical distribution of resources and the 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 in urban areas. Prereq: 211.

ECON 490. Special Topics In Economics. Cr arranged. Subtitle will designate topic.

ECON 495. Senior Honors Thesis. 3 cr. An independent study of the highest quality, under the guidance of a faculty mentor, of a topic selected by the student. Six credits of thesis are required for graduation as an economics honors student. First semester: prepare thesis proposal; second semester: complete the thesis. Proposal and thesis subject to approval by a reading committee of two economics faculty. Prereq: Acceptance as an economics honors student; 3 credits each semester.

ECON 497. Internship In Economics. Cr arranged. Supervised training work program in a cooperating agency or business. Credit determined by chair upon recommendation of an economics faculty member. Prereq: Cons chair.

ECON 498. International Internship. 1-12 cr. Supervised training work program in an international agency or business located outside the United States. Credit determined by chair upon recommendation of an economics faculty member. Prereq: Cons chair.

ECON 499/699. Special Work. Upperclass or graduate students may arrange for independent study with cons chair. Credit based on scope of the project. Prereq: Cons chair.

ECON 717. Economic Education for Elementary and Secondary Teachers. 3 cr. Introduction to basic economic principles and issues; identify resources for economic instruction at elementary and secondary levels; design lessons and activities for integrating economic education across the curriculum; open to experienced, certified teachers. May not earn credit in both Econ 717 and Education 717.

ECON 725. Economics and Environmental Issues. 1 cr. Role of economics principles in the 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 generally accepted social goals and values. Subtitle will designate topic. May repeat for credit under different subtitles.

For more course listings in economics, see the *Latent Course List* at the end of this section.

**CAMP AND YOUTH AGENCY
ADMINISTRATION AND
PROGRAMMING**

See *Natural Resources*.

CARTOGRAPHY

See *Geography*.

CHEMICAL ENGINEERING

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

Chemistry

(College of Letters and Science)

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E Johnson, CM Lang, D Radtke, J Reed, D Rogers,
D Showalter, G Shulfer, K Taft, R Tanke, A Timerman,
S Wright, T Zamis.

CHEMISTRY MAJORS

There are four routes by which you may earn a chemistry major. Each starts with the following core of chemistry and collateral courses.

Chemistry Core/Collateral Courses

Core: Chemistry 115 and 116 (see note 1), 248, 325, 326, 328, 335, 336, 338, 395, 496.
Collateral courses: Math120, 121, 222; Physics 150, 250.

Complete ONE of the following majors.

Chemistry Major

Consists of a minimum of 58 credits:

1. Chemistry core and collateral courses (above).
2. At least 7 credits from Chemistry 329L, 339L, 346L, 365L, 371, 373, 387, 425, 435, 445L, 455, 458L, 468L including one course with laboratory (L) work.

**Chemistry Major for Professional
Certification by the American
Chemical Society**

Consists of a minimum of 65 credits:

1. Chemistry core and collateral courses (above).
2. Chemistry 329, 339, 346, 455.
3. At least 4 credits from at least two of the following courses: Chemistry 365L, 371, 373, 387, 425, 435, 445L, 458L, 499L including one course with laboratory (L) work. You may substitute one advanced course in another science for one chemistry course in this group with approval of the chair.
4. A reading knowledge of a foreign language, especially German, is strongly recommended.

**Chemistry Major with Polymer
Option**

Consists of a minimum of 61 credits:

1. Chemistry core and collateral courses (above).
2. Polymer chemistry courses: Chemistry 371, 373, 474, 478.
3. At least 3 credits from Chemistry 329, 339, 346, 365, 387, 425, 435, 445, 455, 458, 468.

**Chemistry Major with Polymer
Option and Certification by the
American Chemical Society**

Consists of 70 credits:

1. Chemistry core and collateral courses (above.)
2. Chemistry 329, 339, 346, 455.
3. Polymer chemistry courses: Chemistry 371, 373, 474, 478, and 2 credits of 499.

**Chemistry Major for Teacher
Certification**

Consists of any of the majors described above.

NOTE: 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.

Notes:

1. For chemistry majors the normal prerequisite for Chemistry 325 is Chemistry 115 and 116. With the consent of the department chair, you may substitute Chemistry 105 and 106 for 115 and 116.
2. Several of the chemistry courses listed below are designed as service courses or for nonchemistry majors. They do not count toward the chemistry major. In the case of such courses numbered 300 and over, the course description includes this restriction.
3. a. You can replace a grade of F in a 100-level chemistry course with a subsequent grade in another 100-level chemistry course if you have the consent of the department chair. (See the *More Academic Information* section of this catalog for the policy on repeating courses.)
b. In special cases you can replace a D in Chemistry 115 with a subsequent grade in 105 if you first get authorization from the department chair.
4. You cannot receive credit toward graduation for a course after you have already completed a more advanced or similar course in the same area. The following restrictions hold:

If you have received credit for	you cannot receive credit for
100	101
101	100
105	100, 101
115	100, 101, 105, 106
325	220
346	340
365	260
445	340

5. If your program requires one year of introductory chemistry with laboratory, you should take Chemistry 114 concurrently with 115.

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Chemistry Minor

Consists of at least 24 credits. Take ONE of the following course sequences:

1. No more than 10 credits of 100 level chemistry courses; Chemistry 248, 325, 326, 328; and a minimum of 4 addl credits selected from Chemistry 329, 330, 335, 338, 340, 365, 395. You may substitute Water/Geology 487 and Water 492 together for Chemistry 340.
2. No more than 10 credits of 100 level chemistry courses; and Chemistry 220, 248, 260, and either 330 or 340.

The objective of a minor in chemistry is to provide you with a knowledge of introductory and intermediate chemical principles and to have you acquire sufficient technical skills to perform capably in a modern chemical laboratory.

Prechemical Engineering

Take the following science and mathematics courses in your freshman and sophomore years: Chemistry 114, 115, 116 (or 105 and 106), 248, 325, 326, 328; Math 120, 121, 222; Physics 150, 250. Specific chemical engineering curricula and universities have individual requirements. See a prechemical engineering adviser for additional requirements and suggested electives. For recommended courses in other pre-engineering programs, see the listing under *Physics* later in this catalog.

Prepharmacy

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

Academic Standards

1. If you wish to major or minor in chemistry, you must apply for acceptance into the major 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:
 - 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 1-5 above for additional information concerning prerequisites and repeating courses.

Test-Out and Credit-by-Exam Policy

The Department of Chemistry offers test-out opportunities for Chemistry 100, 101, 105, 106, 115 and/or 116. The test-out exams are handled by the Chemistry Curricular Affairs Committee. The exams are written and cover lecture and laboratory topics. You will be notified of the required passing score before you take an exam. You may take a test-out exam only once.

You will receive credit for testing out of 105, 106, 115 and/or 116. For 100 and 101 you will not receive credit but will be granted a waiver of the corresponding general degree requirement science credits.

Courses in Chemistry

CHEM 100. Appreciation of Chemistry. 3 cr. Selected principles of chemistry, emphasizing the relation between chemistry and modern society. 2 hrs lec, 2 hrs lab per wk. (I, II) GDR:NS

CHEM 101. Basic Chemistry. 5 cr. For students who desire only one semester of college chemistry. Introduction to atomic and molecular structure, bonding, stoichiometry, descriptive chemistry of both inorganic and organic compounds, selected topics in environmental and consumer chemistry. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. (See notes 3 and 4.) (I, II) GDR:NS

CHEM 105. Fundamental Chemistry. 5 cr. For students who desire one year of college chemistry. Fundamental principles and theories of chemistry, stoichiometry, nuclear chemistry, thermochemistry, atomic structure and bonding, descriptive chemistry of the nontransition metals. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. Prereq: Math 90 or placement in 100 or above. (See notes 1, 3, and 4.) (I, II) GDR:NS

CHEM 106. Fundamental Chemistry. 5 cr. Continuation of 105. Equilibria, chemical kinetics, acids and bases, electrochemistry, thermodynamics; descriptive chemistry of nonmetals and transition metals, qualitative analysis, organic chemistry. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. Prereq: 105. (See notes 1 and 4.) (I, II) GDR:NS

CHEM 114. General Chemistry Laboratory. 1 cr. For students enrolled in 115 who desire introductory laboratory work; particularly for those with little or no lab experience. 3 hrs lab per wk. Prereq: Con reg in 115. (See note 5.) (I, II) GDR:NS with 115.

CHEM 115. General and Quantitative Chemistry. 4 cr. Laws and principles of chemistry, atomic structure, formulas and equations, stoichiometry, chemical equilibria. 3 hrs lec, 1 hr disc per wk. Prereq: One yr high school chemistry with grade of C or better; Math 118 or con reg or cons chemistry chair; or placement in 119 or higher. (See notes 1, 3, 4, and 5.) (I, II) GDR:NS with 114.

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

CHEM 220. Survey of Organic Chemistry. 4 cr. A systematic survey of the compounds of carbon for students needing only one semester of organic chemistry. 3 hrs lec, 3 hrs lab per wk. Does not count toward chemistry major. Prereq: 106 or 116. (See note 4.) (I, II)

CHEM 248. Quantitative Analysis. 3 cr. Theory and methods of quantitative chemical analysis. 1 hr lec, 6 hrs lab per wk. Prereq: 106 or 116. (I, II)

CHEM 260. Elementary Biochemistry. 4 cr. Introduction to the structure and cellular reactions of the primary constituents of living cells; for students with limited preparation in organic chemistry. 3 hrs lec, 3 hrs lab per wk. Does not count toward chemistry major. Prereq: 220; or 326 and 328. (See note 4.) (II)

CHEM 299. Introduction to Research. 1 cr. Chemistry majors and minors may arrange for independent research with a faculty member. Introduction to chemical research. May be repeated. Does not count toward chemistry major or minor. Prereq: Cons chair.

CHEM 325. Organic Chemistry. 3 cr. An integrated study of the compounds of carbon. Prereq: 116; or 106 and cons chair. (See notes 1 and 4.) (I, II)

CHEM 326. Organic Chemistry. 3 cr. Continuation of 325. Prereq: 325. (I, II)

CHEM 328. Organic Chemistry Laboratory I. 2 cr. Preparation and analysis of organic compounds, introductory qualitative analysis. 6 hrs lab per wk. Prereq: 326 or con reg. (I, II)

CHEM 329. Advanced Synthesis Laboratory. 2 cr. Advanced techniques in the synthesis of organic and inorganic compounds. 6 hrs lab per wk. Prereq: 248, 326, and 328. (I)

CHEM 330. Brief Course in Physical Chemistry. 4 cr. Introduction to physical chemistry with emphasis on the "classical" areas including kinetics, thermodynamics, and colloidal phenomena. For students who want only one semester of physical chemistry. Does not count toward any chemistry major. 3 hrs lec, 3 hrs lab per wk. Prereq: 248, 325; Math 222; Physics 250 or con reg; or cons instr. (I)

CHEM 335/535. Physical Chemistry. 3 cr. Atomic and molecular structure, thermodynamics, kinetics. 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. Prereq: 335. (II)

CHEM 338/538. Physical Chemistry Laboratory I. 1 cr. Laboratory work illustrating physical chemistry principles including thermochemical and electrochemical measurements, kinetics, and bulk properties of matter. 3 hrs per wk. Prereq: 248 and 335, or con reg. (I, II)

CHEM 339/539. Physical Chemistry Laboratory II. 1 cr. Extension of 338 including additional laboratory experience in spectroscopic and physicochemical measurements. 3 hrs per wk. Prereq: 336 and 338, or con reg. (II)

CHEM 340. Intermediate Analytical Chemistry. 4 cr. Theory and methods of chemical analysis including instrumental and separation techniques. 2 hrs lec, 6 hrs lab per wk. Does not count toward any chemistry major. Prereq: 248; Math 111 or 120, or con reg in either; or cons instr. (See note 4.) (I)

CHEM 346/546. Instrumental Analysis. 4 cr. Instrumental methods of analysis including optical, electrical, and radiochemical. 2 hrs lec, 6 hrs lab per wk. Prereq: 248; and 336 or con reg. (See note 4.) (II)

CHEM 365/565. Biochemistry. 4 cr. Chemistry of the components of living cells, and the nature and mechanism of cellular reactions. 3 hrs lec, 3 hrs lab per wk. Prereq: 248, and 326, 328; acceptance into chemistry major/minor or cons chair. (See note 4.) (I, II)

CHEM 371. Introduction to Chemistry of Materials. 1 cr. Descriptions of main classes of materials—metals, ceramics and glasses, natural and synthetic polymers, composites, and semiconductors; emphasis on relationships between chemical structure, physical and chemical properties, and end use. One hr lec per wk. Prereq: 326 or con reg. (I)

CHEM 373. Polymer Synthesis and Characterization. 2 cr. Methods of polymerization of organic and inorganic polymers. Structure-property relationships, classes of natural and synthetic polymers and co-polymers, mechanisms of polymerization, and characterization of polymers by spectroscopic, thermal, physical, and mechanical methods. 2 hrs lec per wk. Prereq: 326; 371 or con reg; Math 120. (I)

CHEM 387. Spectral Identification of Organic Compounds. 1 cr. Advanced treatment of organic compound identification based on spectral analysis. 2 hrs per wk. Prereq: 328 or cons instr. (II)

CHEM 395. Seminar I. 1 cr. Use of chemical and scientific literature, introduction to seminar concept, participate in studies and discuss current developments in chemistry. Prereq: 326 and chemistry major/minor or cons chair. (I)

CHEM 397. Chemical Literature. 1 cr; pass/fail. Readings and discussions on topics from current chemical literature. Does not count toward chemistry major or minor. Prereq: 395 or con reg.

CHEM 399. Special Work. 1-3 cr. Chemistry majors and minors may arrange for independent projects with a faculty member. May be repeated. Does not count toward chemistry major or minor.

CHEM 425/625. Advanced Organic Chemistry. 3 cr. Theoretical and physical organic chemistry including reaction mechanisms, quantum mechanical applications, and advanced stereochemistry. Prereq: 336. (I)

CHEM 435/635. Advanced Physical Chemistry. 3 cr. Advanced treatment of quantum chemistry, spectroscopy, statistical thermodynamics, kinetics. Prereq: 336. (I)

CHEM 445/645. Advanced Analytical Chemistry. 3 cr. Theory and applications of complex chemical equilibria and selected methods of analytical separations. 1 hr lec, 6 hrs lab per wk. Prereq: 248; and 336 or con reg. (See note 4.) (I)

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

CHEM 458. Advanced Inorganic Chemistry Laboratory. 1 cr. Continuation of 329 for additional specialized training in synthesis, characterization, and reaction of inorganic compounds. 3 hrs lab per wk. Prereq: 329; 455 or con reg. (II)

CHEM 474. Physical Chemistry of Polymers. 2 cr. Key physical aspects of polymer molecules. Bulk properties, polymer solutions, morphology, rheology. Polymer processing and end uses. 2 hrs lec per wk. Prereq: 335, 373. (I)

CHEM 478. Polymer Laboratory. 2 cr. Preparation of polymers by chain-growth and step-growth methods. Introduction to airless techniques and polymer processing. Characterization of bulk and solution properties by molecular weight determinations, spectroscopy, thermal analysis, and mechanical property evaluation. 6 hrs lab per wk. Prereq: 329; 474 or con reg. (II)

CHEM 496/696. Seminar II. 1 cr. Studies and discussions of current developments in chemistry. Prereq: 336, 395; acceptance into chemistry major or cons chair. (II)

CHEM 499. Independent Research. 1-3 cr. Chemistry majors may arrange for independent research with faculty research adviser. Written report required. Students are encouraged to repeat this course with their adviser. May apply no more than 3 cr toward ACS certified major. Does not count toward L&S chemistry major. Prereq: 248, 326 and cons chair.

CHEM 796. Independent Study. 1-4 cr. A subtitle will designate topic.

For more course listings in chemistry, see the *Latent Course List* at the end of this section.

Courses in Chemistry Education

CHEM 790. Chemistry Education Workshop. 1-4 cr. Subtitle will designate topic and credits. Prereq: Cons chair.

CHEM 792. Special Topics in Chemistry Education. 1-4 cr. Subtitle will designate topic and credits. Prereq: Cons chair.

Course in Marine Chemistry

Marine Chemistry. 6 cr. Offered at the Gulf Coast Research Laboratory in Ocean Springs, Miss. Does not count toward the major or minor in chemistry.

CHILD DEVELOPMENT

See *Education* for major in early childhood education.

CHILD AND FAMILY STUDIES

See *Health Promotion and Human Development*.

COACHING

See *Health, Exercise Science, and Athletics*.

Communication

(College of Fine Arts and Communication)

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Faculty: C Allen, R Bullis, W Davidson, W Deering, R Dubiel, K Ferrante, J Grow Von Dorn, R Ilkka, W Kelley, H Kim, L Midkiff-DeBauche, J Moe, C Sadler, R Sprague, MA Tolstedt, H Warren.

The Division of Communication offers a single comprehensive communication major. Working with a faculty adviser, you can prepare for a wide range of communication careers in broadcasting, journalism, public relations, advertising, and business. In addition, many students pursue a communication major as part of personal enrichment in the humanities and liberal arts by taking coursework in film or interpersonal communication studies. You must complete all coursework required for the major 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 which enhance job opportunities upon graduation by providing practical communication experience.

Communication Major

Consists of a minimum of 36 credits in communication courses:

1. Eighteen credits must be in courses numbered 300 or above.
2. Required core: Comm 171, 272, 373, 374.
3. Comm 101 may not be used to complete the major.
4. Complete at least one emphasis area.

Communication Minor

Consists of 24 credits:

1. Comm 171, 272, 373, 374.
2. Twelve credits of communication electives, at least 6 must be numbered 300 or above.
3. Comm 101 may not be used to complete the minor.

Areas of Emphasis

To major in communication and qualify for graduation, in addition to the core courses, you must complete one of the following emphasis areas. The interpersonal, organizational, and public relations/advertising emphases require a minimum of 15 credits from courses indicated below. The mass communication emphasis requires a minimum of 21 credits from courses indicated below.

In addition to the requirements listed here, obtain from your adviser a more complete course list for your emphasis area which contains additional recommended courses from within and outside of the division. Also note that courses listed below with an asterisk (*) are laboratory or topics courses and may be repeated for credit under different subtitles.

Interpersonal—Required: Comm 211, 311 or 383. Electives: 3 courses from Comm 311 (if not chosen above), *336, 370, 372, *380, 383, *385, 386, 387, *389, *390 (interpersonal, conflict management, or ethics focus).

Organizational—Required: Comm 217, 340. Electives: 3 courses from Comm *380 (small group decision-making

and creative problem-solving subtitles only), *342, 343, *349, 383, *390 (organizational or ethics focus).

Mass Communication—Required: Comm 121 and one of 125, 151, 220, 250. Electives: 5 courses in mass communication (at least 3 courses at the 300 level) from 125, 151, 220, 221, 250, 252, 253, 302, 303, 304, 306, 321, *322, 323, 325, 329, 352, 353, 354, 355, 358, 359, 360, 361, 362, 363, 364, 365, 369, 387, *390 (ethics or mass communication focus), 391.

Public Relations/Advertising—Required: Comm 230 or 238, 334, or 335. Electives: 9 credits from Comm *322 (desktop focus), *330, 331, 332, 333, 337, *338, 339, *390 (ethics focus), 394.

Individually Planned (I.P.E.)—Meet the requirements for the major by completing the "core courses" plus 24 credits of additional communication courses. These 24 credits must be determined in consultation with your adviser and approved by the division head. At least 18 credits (out of the 36 required credits) must be in courses numbered 300 and above. To graduate with an individually planned emphasis in communication you must earn a 2.5 GPA in communication courses.

Academic Standards

Anyone may declare a major/minor in communication. However, in order to graduate with a major/minor in communication, you must achieve a 2.50 GPA for all communication classes taken regardless of a declaration of academic bankruptcy. The division will attempt to notify and consult with communication majors who are at or below a 2.50 GPA. It is your responsibility, however, to know your own GPA status.

Finally, courses with a grade below C- DO NOT count toward the major/minor. See the **More Academic Information** section of this catalog for the policy on repeating courses.

You may receive proficiency referrals based on in-class speaking or writing deficiencies. If you receive two or more oral or written referrals from at least two different faculty members, you will be required to work in the Speaking and Listening Center or the Tutoring-Learning Center before graduating until competency is verified by the center director.

If you wish to declare a major in communication, you must meet with the division head regarding admission to the program. When you major in communication the division head will assign you an adviser from the communication faculty. You must receive your adviser's approval of courses before you register each semester.

Test-out, Credit-by-Exam, Retroactive Credit Policy

If you think you qualify for the above, contact the division head who will determine whether the exam will be for test-out, credit-by-exam, and/or retroactive credit. A designated instructor will administer a written exam which 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 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 110. Introduction to the Internet, Technology and New Media Arts.** 3 cr. World Wide Web understanding, appreciation, issues and content production. Basic computer graphics, Web page creation and design, and multimedia skills and issues. Technology trends including research, copyright, privacy, and censorship.
- COMM 121. Evolution of Mass Media in America.** 3 cr. The growth, regulations, and ramifications of communication media in this country. GDR:HU1
- COMM 125. 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 151. Introduction to Broadcasting.** 3 cr. Introduction to broadcast production, including terminology, aesthetics, organizational consideration.
- 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 175. Introduction to Diversity Communication.** 3 cr. Introduction to the history and analysis of the current status of communication between and/or among diverse populations.
- COMM 211. 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 217. Introduction to Organizational Communication.** 3 cr. Investigation of and experience with communication within institutionalized channels. GDR:SS2
- COMM 220. Introduction to Journalism.** 3 cr. Introduction to print and electronic journalism with special focus on issues, structures, functions and effects of the industry.
- COMM 221. Basic Journalism: Newswriting and Reporting.** 3 cr. Basic newswriting and reporting for newspapers: composition and news gathering skill, styles and story forms, and copy editing.
- COMM 230. Introduction to Public Relations.** 3 cr. Introduction to theory and practice of public relations; special focus on the public relations campaign.
- COMM 238. Introduction to Advertising.** 3 cr. Introduction to the theory and practice of advertising; special focus on the advertising campaign.
- COMM 250. Applied Media Aesthetics.** 3 cr. Introduction to aesthetics in aural and visual media; theoretic preparation for production courses; basic scriptwriting for aural and visual media. GDR:HU1
- COMM 252. Basic Radio Production.** 3 cr. Introduction to radio production. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 250 or cons instr.
- COMM 253. Basic Television Production.** 3 cr. Introductory level course into television production, including processes and procedures of producing and directing; videography; lighting; audio, graphics, and other production elements; business and organizational concerns. Prereq: 250.
- COMM 272. Reasoning and Persuasion.** 3 cr. Analysis and use of reasoning in persuasive messages. GDR:HU1
- COMM 299. Special Work.** Freshman and sophomore communication majors and minors may arrange for independent study with cons div head. Credit based on scope of the project. Prereq: Cons instr.
- COMM 300. Introduction to Communication Research.** 3 cr. Types and principles of research in communication; emphasis on interpretation of various research studies and analysis of their implications for the communication field; practice in library and survey research.
- COMM 302/502. Global Communication and the Information Age.** 3 cr. Trends and contemporary issues of computer mediated communication including censorship, privacy, business trends, community networks, and legal concerns. Applications using new technologies.
- COMM 303/503. Technology and Leadership.** 3 cr. Impact of the information age on contemporary leadership issues.
- COMM 304/504. Using the Internet for Creative Education and Social Change.** 3 cr. Creating internet strategies and materials for education, business, and nonprofit agencies.
- COMM 306/506. Multimedia Authoring and Publishing on the Net.** 3 cr. Training in the development of computer mediated communication applications. Prereq: 110 or cons instr.
- COMM 307/507. Advanced Multimedia Authoring and Publishing on the Net.** 3 cr. Advanced training in the development of computer mediated communication applications. Web page creation incorporating digital audio and digital video production, 2-D computer animation and other computer programs. Prereq: 306/506 or cons instr.
- COMM 311/511. Dialogical Communication and Relationships.** 3 cr. Examination of 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 321. Advanced Journalism.** 3 cr. News and public affairs writing and reporting, investigative reporting, interpretive writing, and editing. Prereq: 221 or cons instr.
- COMM 322. Communication Graphics Laboratory.** 3 cr. Principles of design and their applications in the preparation and production of graphic materials in the communication media industries. Subtitle will designate area. May repeat for credit with different subtitle.
- COMM 323. Journalism Writing Laboratory.** 3 cr. Practice in specific forms of journalistic writing. Typical offerings include feature, editorial, sports, science, and magazine writing. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 221 or cons instr.
- COMM 325/525. Press Freedom and Law.** 3 cr. Examination of U.S. laws and regulations relating to freedom of speech and of the press, regulation of advertising, and information gathering and dissemination.
- COMM 329. Topics In Journalism.** 3 cr. Typical offerings include new journalism, literary journalism, journalism history, business journalism. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 220 or cons instr.
- COMM 330/530. Public Relations Laboratory.** 3 cr. Training in campaign planning including research, theme development, identification of relevant publics and development of appropriate messages. Prereq: 230 or cons instr.
- COMM 331/531. Public Relations Campaign.** 3 cr. Training in campaign planning including research, theme development, identification of relevant publics and development of appropriate messages. Prereq: 230 and 3 cr 300 level public relations/ advertising or cons instr.
- COMM 332/532. Public Relations Practicum.** 3 cr. Training in execution of public relations campaign. Emphasis on media relations, preparation of materials used in campaign, and troubleshooting techniques. Prereq: 230 or cons instr.
- COMM 333/533. Case Studies in Public Relations.** 3 cr. Examination and criticism of 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: 230 or cons instr.
- COMM 335/535. Ad Copywriting.** 3 cr. Training in writing advertising for various media including print, broadcast, and direct mail. Prereq: 238 or cons instr.
- COMM 337/537. Advertising Strategies.** 3 cr. Training in development of advertising strategies designed to meet specific objectives of an advertising campaign. Prereq: 238 or cons instr.
- COMM 338/538. Advertising Laboratory.** 3 cr. Training in methods used by institutions to relate to their respective target markets. Typical offerings include: advertising strategies, media planning, and advertising practicum. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 238 or cons instr.

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COMM 339/539. Advertising Campaigns. 3 cr. Training in development and execution of an advertising campaign. Target market selection, theme development, creative strategy, media planning, sales promotion. Prereq: 238 or cons instr.

COMM 340/540. Organizational Communication Theory. 3 cr. Study of communication theory and applications relating to private and public organizations. Analysis of communication research, patterns, and strategy. Prereq: 217.

COMM 342/542. Organizational Communication Laboratory. 3 cr. Organizational communication processes. Typical offerings include 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: 340 or cons instr.

COMM 343/543. Organizational Communication Assessment. 3 cr. Theories and procedures for assessing communication effectiveness in organizations. Special attention is given to using communication audit techniques and designing solutions to communication problems in organizations. Prereq: 217.

COMM 344. Applied Leadership. 3 cr. Experience in and application of leadership principles and practices to various professional settings. Typical offerings include: management skills for organizational development, leadership development and theory, and leadership seminar. Does not count toward communication major or minor. May repeat 3 times with different subtitles. Prereq: Emerging Leaders 1 Program.

COMM 349/549. Organizational Communication Topics. 3 cr. Typical offerings 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: 340 or cons instr.

COMM 352. Advanced Radio Production. 3 cr. Advanced training in radio production. Typical offerings include advanced radio production; digital audio lab; broadcast announcing. Subtitle will designate area. May repeat for credit with different subtitles. Prereq: 252 or cons instr.

COMM 353. Portable Video. 3 cr. Advanced television production, including advanced videography and lighting; editing; other post-production considerations. Prereq: 253.

COMM 354. Broadcast News Laboratory. 3 cr. Training in radio and television news writing, reporting, and production. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 252 or cons instr.

COMM 355/555. History of Broadcasting. 3 cr. Examination of the development and growth of radio/television in America. GDR:HU1

COMM 356. Advanced Television Production. 3 cr. Advanced training in television production. Typical offerings include: corporate video production; documentary production; advanced editing. May repeat with different subtitle. Prereq: 353.

COMM 358/558. Regulation of Broadcasting. 3 cr. Analysis of laws and regulations that affect the American broadcasting industry. Prereq: 121 or 151.

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: 151.

COMM 360/560. Film History: Beginning to 1940. 3 cr. The development and international trends of the motion picture from the late 19th century to 1940. GDR:HU1

COMM 361/561. Film History: 1940 to Present. 3 cr. The development and international trends of the motion picture from 1940 to the present. GDR:HU1

COMM 362/562. Topics in Film History. 3 cr. Significant national and international trends, issues and artists in the film history. Typical offerings include: American films of the 20s and 30s; American films of the 40s and 50s; American films of the 60s and 70s; films of Alfred Hitchcock. May repeat for credit with different subtitle. GDR:HU1

COMM 363/563. Film and Television Genres. 3 cr. Examination of media narrative forms which share common stylistic and narrative conventions and themes. Typical offerings include: 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. Examination of needs of art and government in a totalitarian political system. May not earn credit in both 364 and same topic of History 341. GDR:HU4-BS

COMM 365/565. Writing for the Media. 3 cr. Writing for specific media contexts. Typical offerings include ad copywriting, scriptwriting, and writing for public relations. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: Cons instr.

COMM 369/569. Topics in Film. 3 cr. Typical offerings include film theory and criticism, and survey of documentary film. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 125 or cons instr. GDR:HU1

COMM 370/570. Communication and Gender. 3 cr. Study of communication behaviors as they affect and are affected by gender. Prereq: 175 or cons instr.

COMM 371. Media Stereotyping. 3 cr. An examination of the way media have created and reinforced stereotypes.

COMM 372. Inter-Ethnic Communication. 3 cr. Study of communication behaviors as they affect and are affected by ethnicity across and within national boundaries. Prereq: 175 or cons instr.

COMM 373. Communication and Social Change. 3 cr. Study of the communication theories, media, methods, and strategies for affecting or resisting change in society. Prereq: 171 and 272.

COMM 374. Art of Criticism. 3 cr. Application of critical approaches for understanding, analyzing, evaluating, and appreciating selected forms of communication. Prereq: 171 and 272 or jr st.

COMM 375. Interracial Communication. 3 cr. Examination of interracial communication theory and research emphasizing improving interaction quality and understanding. Prereq: 175 or cons instr.

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 377. Communication and Aging. 3 cr. Examination of communication problems encountered by senior citizens in their attempts to communicate with individuals and institutions. Emphasis on physical change and altered roles. Prereq: 175 or cons instr.

COMM 378. Diversity Communication Strategies. 3 cr. Examination of communication methods that have special application to diversity communication. Case studies of communication problems related to race, gender, age, and ethnicity. Prereq: 175 or cons instr.

COMM 379. Native American Communication Issues. 3 cr. Examination of ways that communication and worldview affect the relationship between Native Americans and other members of society. Specific issues relevant to the tribes of the upper Midwest. Prereq: 175 or cons instr.

COMM 380/580. Small Group Communication Laboratory. 3 cr. Small group communication processes. Typical offerings include: creative problem-solving, family communication, and group discussion. Subtitle will designate area. May repeat for credit with different subtitle.

COMM 383/583. Interpersonal Communication In Organizations. 3 cr. Examination of the theory and practice of communication based directly and primarily on interpersonal relationships in organizations, as it applies to organizational operations and climates. Prereq: 211.

COMM 385/585. Interpersonal Communication Laboratory. 3 cr. Interpersonal communication processes. Offerings may include nonverbal communication or family communication strategies. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 211 or cons instr.

COMM 386. Listening. 3 cr. Application of skills and strategies to such listening contexts as discriminative, evaluative, appreciative, and empathic. Prereq: 211 or cons instr.

COMM 387. Interviewing. 3 cr. Application of skills and strategies to such interviewing contexts as: performance appraisal, selection, journalistic/probing, and persuasive. Prereq: 211 or cons instr.

COMM 389/589. Personal Communication Topics. 3 cr. Typical offerings include small group communication theory and

communication in social interaction. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: 211 or cons instr.

COMM 390/590. Seminar. 3 cr. Study and discussion of a new development, special problem, or area of interest in the field of communication. Subtitle will designate area. May repeat for credit with different subtitle. Prereq: Cons instr.

COMM 391. Computer Communication Laboratory. 3 cr. How computer applications and processes relate to the field of communication. Typical offerings include videotex and computer graphics, communication and the computer age. Subtitle will designate area. May repeat for credit with different subtitle.

COMM 393/593. Oral Interpretation. 3 cr. The art of communicating the 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 480. Communication Internship. 1-8 cr. Supervised field experience with a cooperating agency in fields related to communication; evaluation and review sessions with the faculty internship coordinator and agency supervisor; culminating paper. Max 8 cr can count toward graduation and max 3 cr may count toward major. Prereq: Approved communication major with jr/sr st and cons intern director.

COMM 490. Senior Seminar. 3 cr. Select and research a topic in an area of interest, submit conclusions in writing, and defend them orally before an invited panel. Prereq: Completion of core courses in major, and recommendation of adviser.

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.

COMM 701. Perspectives on Communication and the Human Condition. 3 cr. Examination of philosophies and theories of communication. Discussions about being human and human communication, human and nonhuman communication, interpretations of symbolic expression, and the creation of meaning.

COMM 702. Seminar in Communication Research Methods. 3 cr. Examines methods used to study communication activities. Typical offerings include: 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. Examination of theory and research in mass communication. Typical offerings include: 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 Advertising/Public Relations. 3 cr. Examination of theory and research in advertising and public relations. Typical offerings include: comparative models for media planning, international advertising, consumer behavior, advertising effects. Subtitle will designate area. May repeat for credit with different subtitle.

COMM 740. Seminar in Interpersonal Communication. 3 cr. Examination of theory and research in interpersonal communication. Typical offerings include: 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 750. Creativity and Symbolism. 3 cr. Examination of symbols in communication; the relationship of symbols to meaning and creative expression; the formal conventions and properties of different media; practical application through projects for different media.

COMM 770. Seminar in Organizational Communication. 3 cr. Examination of theory and research in organizational communication. Typical offerings include: 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.

For more course listings in communication, see the *Latent Course List* at the end of this section.



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Communicative Disorders

(College of Professional Studies)

Dennis Nash, Associate Dean and Head of the
School of Communicative Disorders
Room 037, College of Professional Studies Building
Phone: 715-346-2328
E-mail: dnash@uwsp.edu

Faculty: R Balas, K Beach, E Brush, Donna Christensen, G Cumley, M Day, C Forster, R Gabel, D Henry, P Horner, W Meyer, D Nash, L Plonsker, N Stone.

When you major in communicative disorders you have two options: (1) a major leading to educational certification, and (2) a major which does NOT lead to educational certification. No minor is available. The school's coordinator of academic programs will advise you.

Communicative Disorders Major

The following courses are required at the undergraduate level:

1. The bachelor of science general degree requirements.
2. Communicative Disorders, 41 credits: 108, 251, 260, 264, 266, 267, 342, 345, 351, 352, 360, 366, 407, 495 (2 enrollments).
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 the following:

1. Education, 7 credits: 205, 351, 381.
2. History, 6 credits: 212 and one additional course from 120, 130, 211, 379, 382, 385.
3. The master of science degree in Communicative Disorders.

Academic Standards

1. You must have an overall GPA of 2.0 to enroll in lower division preprofessional coursework for the major. These courses are Communicative Disorders 108, 251, 260, 264, 266, 267.
2. To enroll in upper division (300-400 level) preprofessional coursework you must complete the lower division preprofessional coursework with a GPA of 3.0 and have an overall GPA of 2.75.
3. You must earn a grade of C or better in required communicative disorders coursework to receive credit toward the major. You may repeat a course once if you earned a grade of less than C-.

4. You must maintain a 2.75 GPA overall and a 3.0 GPA in this major throughout the upper division coursework.
5. If you fail to meet either the overall or the in-major GPA, you will be placed on probation in the major. You must meet the above GPAs by the end of the probationary semester to continue in the major. Only one probationary semester is allowed.
6. All courses taken in the major are used in determining the in-major GPA, regardless of a declaration of academic bankruptcy.
7. All college and university coursework will be used for any program decision, including the professional education program, enrollment in upper division courses, and graduation. You may petition the Communicative Disorders Academic Programs Committee for exception.

Master of Science Degree in Communicative Disorders

Is described in the graduate section of this catalog.

Center for Communicative Disorders

Eleanor Brush, Clinical Director
Room 001, College of Professional Studies Building
Phone: 715-346-3667
E-mail: ebrush@uwsp.edu

The Center for Communicative Disorders offers speech, language, and hearing diagnostic and therapeutic services to university students. Contact the center (weekdays from 7:45 a.m. to 4:30 p.m.) for personal assistance with your speech and/or hearing problems.

The diagnosis and treatment of speech, language, and hearing disorders are also extended to the people of Wisconsin. Some of the problems encountered in the center are stuttering, articulation defects, cerebral palsy, cleft palate, voice disorders, hearing problems, language disorders, and aphasia.

The center, in conjunction with its educational program, provides practicum experience for students majoring in communicative disorders.

Courses in Communicative Disorders

- COMD 108. Introduction to Communicative Disorders.** 3 cr. Overview of normal speech, language, and hearing processes; survey of disorders of communication and the profession of communicative disorders.
- COMD 251. Hearing Science.** 3 cr. Measurement of sound; anatomy and physiology of the hearing mechanism; perception of sound. Prereq: 108 or con reg and so st and Math 100.
- 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.
- 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 (formerly 252). 2 cr. Instruction and practice in the presentation of English through the use of manual signs and fingerspelling. Prereq: Cons instr.

COMD 345. Phonological and 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, 251, 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, 251, 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, 366.

COMD 366. Language Impairments In Young Children. 3 cr. Functional approaches in the management of language impaired children between birth and five years of age, including cultural differences. Prereq: 260.

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. For special education students only. Prereq: Admission to Professional Education.

COMD 407. Introduction to Speech and Hearing Science. 3 cr. Acoustic and physiologic elements of speech production and perception; laboratory assessment.

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 the project.

COMD 710. Research Methods In Communicative Disorders. 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 the results. Students encouraged to pursue research interests during course. Prereq: Cons instr.

COMD 711. Clinical and Instrumental Measurement of Speech. 3 cr. Contemporary clinical and instrumental assessment procedures for disorders of respiration, phonation, resonance and articulation. Treatment strategies using physiologic and acoustic instrumentation to manage phonation and speech disorders. Prereq: Cons instr.

COMD 713. Diagnostic Processes. 3 cr. Theoretical and clinical framework for speech and language assessments with a focus on clinical problem solving, including pre-assessment information, assessment, interpretation, and documentation across settings and populations. Prereq: Cons instr.

COMD 715. Gross Anatomy of the Head and Neck. 2 cr. Gross human anatomy for human communication; dissections of the head and neck to view the structural relationships of the mechanisms. Prereq: Cons instr.

COMD 721. Neurophysiology of Hearing and Balance. 3 cr. Anatomy and physiology, and embryology of the central and peripheral auditory and vestibular systems. Prereq: Cons instr.

COMD 722. Acoustics and Psychoacoustics. 3 cr. Psychological, acoustic, and bioacoustic aspects of hearing. Prereq: Cons instr.

COMD 723. Fluency Disorders. 3 cr. Research related to etiology, onset, development, and maintenance of stuttering and other speech fluency disorders. Assessment and treatment of preschoolers, school-age children, adolescents, and adults. Prereq: Cons instr.

COMD 724. Neuromotor Disorders. 3 cr. Critical issues in the assessment and management of motor speech disorders in children,

adolescents and adults. Multidisciplinary aspects of treatment associated with dysarthria, apraxia and other developmental and acquired neuromotor disorders. Prereq: Cons instr.

COMD 735. Language Disorders: School Age Through Elderly. 3 cr. Information processing, memory, discourse, narratives, nonliteral language problem solving, and word finding difficulties. How problems negatively affect academic skills, reading, writing and social effectiveness. Assessment and intervention techniques used to support these individuals across academic and social environments. Normal aging process and how aging affects the language system. Prereq: Cons instr.

COMD 738. Infants and Toddlers at Risk. 3 cr. Identification, assessment and intervention procedures for children from birth through two years. Prenatal, perinatal, and postnatal risk factors and caregiver's role in early child development. Issues surrounding NICU management. Prereq: Cons instr.

COMD 740. Acquired Communication Disorders of Adults. 3 cr. Acquired communication disorders of adults including aphasia, right hemisphere lesions, head injury, and dementia; evaluation, differential diagnosis, and management procedures. Prereq: Cons instr.

COMD 742. Seminar in PDD/Autism. 1 cr. Assessment and intervention approaches based on current theoretical perspectives of PDD/Autism which will enhance communication and socialization abilities of this population. Prereq: Cons instr.

COMD 745. Advanced Study In Phonological Disorders. 2 cr. Review of contemporary issues related to articulation and phonology. Assessment and treatment strategies for clinically and culturally diverse child and adult populations. Prereq: 345 or equiv.

COMD 746. Dysphagia. 3 cr. Normal swallowing function as a foundation for exploring contemporary issues in the clinical and instrumental assessment of swallowing disorders in infants, children and adults. Management procedures for swallowing disorders across the lifespan emphasizing multidisciplinary aspects of treatment. Prereq: Cons instr.

COMD 751. Clinical Assessment of Hearing I. 4 cr. Basic theory, principles, and techniques underlying the initial assessment of auditory function, including immittance, pure tone, and speech audiometry. Prereq: Cons instr.

COMD 752. Clinical Assessment of Hearing II. 3 cr. Advanced audiological procedures including classical site of lesion tests, testing of infants and children, and assessment of central auditory processing. Prereq: 751 and cons instr.

COMD 755. Pathologies of the Auditory and Vestibular Systems. 3 cr. Comprehensive study of auditory and vestibular systems disorders. Prereq: 721 and cons instr.

COMD 756. Audiology for Speech/Language Pathologists. 2 cr. Review of the anatomy/physiology of the hearing mechanism, causes of hearing loss, and diagnosis; methods for hearing screening with clinical practice and an overview of aural rehabilitation. Prereq: Cons instr.

COMD 758. Balance System Assessment. 3 cr. Brief review of anatomy and physiology of balance; in-depth study of electronystagmography examination with practical experience; review of balance disorders; rehabilitation methodology; study of rotational testing and posturography. Prereq: Cons instr.

COMD 760. Amplification. 3 cr. Hearing aid measurement, selection procedures, and hearing aid orientation. Prereq: 713 and cons instr.

COMD 761. Hearing Aid Dispensing. 3 cr. Advanced study of amplification and topics related to hearing aid dispensing. Prereq: 760 and cons instr.

COMD 763. Aural Rehabilitation. 3 cr. Intervention programs and techniques; counseling strategies used with hearing impaired children and adults. Prereq: Cons instr.

COMD 765. Augmentative and Alternative Communication. 3 cr. A lifespan approach in the assessment, intervention, and management of individuals who are nonspeaking because of developmental, motor, or acquired disabilities; determining and developing different communication opportunities supported by a multi-modal communication approach incorporating both low and high technological approaches. Lab experiences include various voice output systems and different assistive technology computer software. Prereq: Cons instr.



COMD 766. Electrophysiological Assessment of the Auditory System. 3 cr. Review of auditory system anatomy and physiology; study and practice in eliciting short, middle, and long latency potentials as a means of assessing auditory system function; applications to assessment of infants and persons with hearing loss. Prereq: 721 and cons instr.

COMD 784. Disorders of Phonation. 2 cr. Classification, differential diagnosis, assessment, treatment, and prevention of vocal dysfunction across the lifespan. Prereq: Cons instr.

COMD 786. Maxillofacial Disorders. 1 cr. Etiology and embryology of oral-facial anomalies. Multidisciplinary assessment and management of speech and language development and habilitation. Prereq: Cons instr.

COMD 788. Laryngectomy and Alaryngeal Voice Management. 1 cr. Etiology of laryngeal cancer; medical management of malignant tumors of the larynx; rehabilitation of laryngectomees. Prereq: Cons instr.

COMD 790. Seminar In Communicative Disorders. 1-3 cr. Content varies. Seminar format to study topics associated with speech-language pathology and audiology. Prereq: Cons instr.

COMD 791. Graduate Practicum – Critical Issues I. 2 cr. Evaluation and management of persons with communicative disorders in the Center for Communicative Disorders and selected off-campus facilities. Includes medical settings, ethics, functional goals, and documentation. Prereq: Cons instr.

COMD 792. Graduate Practicum – Critical Issues II. 2 cr. Evaluation and management of persons with communicative disorders in the Center for Communicative Disorders and selected off-campus facilities. Includes counseling clients and their families, collaboration with other professionals, and supervision. Prereq: Cons instr.

COMD 793. Graduate Practicum – Critical Issues III. 2 cr. Evaluation and management of persons with communicative disorders in the Center for Communicative Disorders and selected off-campus facilities. Includes multicultural populations. Prereq: Cons instr.

COMD 794. Graduate Practicum – Critical Issues IV. 2 cr. Evaluation and management of persons with communicative disorders in the Center for Communicative Disorders and selected off-campus facilities. Includes educational settings, professional organizations, certification and licenses. Prereq: Cons instr.

COMD 795. Clinical Semester. 15 cr. Fifteen-week full-time clinical externship in education or noneducational professional settings. Prereq: Completion of academic and practicum requirements.

COMD 796. Independent Study. 1-3 cr. Prereq: Cons instr.

COMD 797. Workshop. 1-6 cr. Individual and/or group projects that expand the graduate program course content. May repeat for credit with different content. Prereq: Cons instr.

COMD 799. Thesis. 2-6 cr.

For more course listings in communicative disorders, see the *Latent Course List* at the end of this section.

Comparative Literature (College of Letters and Science)

Jan Seiler, Coordinator
Room 490, Collins Classroom Center
Phone: 715-346-3036
E-mail: jseiler@uwsp.edu

Comparative Literature Minor

1. Comparative Literature 101 and 102.
2. Six credits in advanced literature courses in which you do the reading in a language other than your native language.
3. Comparative Literature 399.
4. Additional courses in comparative literature and English to total 21 credits, as follows:
 - a. At least 12 credits in comparative literature courses.
 - b. Additional credits selected from English 310, 312, 319, 361, 362, 372, 380.

Test-Out and Credit-by-Exam Policy

You may apply for test-out or credit-by-exam for comparative literature courses which carry general degree requirement (GDR) credit. The instructor who most recently offered the course will prepare a comprehensive written exam on the material covered in the course and will administer and grade the exam. If you receive a B- or better on the written exam you may test-out of the GDR requirement. To be eligible for credit-by-exam you must receive a grade of B or higher on the written exam, earn a grade of B or higher on an 8-10 page paper on a literary topic covered in the course, and receive the positive recommendation of the department. A maximum of 6 credits earned from credit-by-exam may count toward the comparative literature minor.

Courses in Comparative Literature

C LT 101. Masterpieces of the Western World. 3 cr. A comparative study of themes and literary traditions in the literature of the Western World from Homer to Montaigne. GDR:HU2

C LT 102. Masterpieces of the Western World. 3 cr. A comparative study of themes and literary traditions in the literature of the Western World from Milton to Mann. GDR:HU2

C LT 243(NW). Spanish American Literature in Translation (formerly Spanish 243). 3 cr. Selected readings. Subtitle will indicate focus. May repeat for credit under different subtitles. GDR:HU2

C LT 317. The Novel Before 1850. 3 cr. A comparative analysis of selections from the works of such writers as Cervantes, Lyly, Nash, Voltaire, Goethe, Hoffman, Balzac, Stendahl, Gogol, and Mansoni, with major emphasis on evolution of form and theme. GDR:HU2

C LT 324. Literature and the Arts. 3 cr. Comparative study of literature and its relationship to one or more art forms (film, sculpture, painting, music, etc.) to determine esthetic purpose and the relationships between them. Subtitle will designate topic.

C LT 399. Special Work. Upperclass comparative literature minors may arrange for independent study with cons instr, adviser, and department chair. Credit will be based on the scope of the project.

For more course listings in comparative literature, see the *Latent Course List* at the end of this section.

COMMUNITY NUTRITION

See *Health Promotion and Human Development*.

Computer Information Systems

(College of Letters and Science)

James Gifford, Chair and Coordinator of
Instructional Computing
Room B-246, Science Building
Phone: 715-346-2120
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Faculty: R Ackley, A Carlson, J Carter, G Gau, D Gibbs,
J Gifford, Goulet, S Madison, R Morris, B Staal, M Stern.

The program and courses in **computer information systems** are administered by the Department of Mathematics and Computing.

Computer Information Systems Major (CIS)

Consists of at least 38 credits:

1. CIS 115, 210, 211, 220, 313, 319, 330, 358, 480, and 6 additional credits of 300 level CIS courses excluding CIS 395, 397, 499.
2. Math 109 or 111 or 120, and Math 355 or 356 and 357.
3. Elective options: In addition, you may complete one of the options below. Except for Math 120, courses used to complete requirements for the major cannot be used to complete an option.
 - a. **Business option:** CIS 332, 345 or 346, an approved 300 level elective; Accounting 210 and either Business 330 and 380, or an approved CIS internship. To complete this option you must take CIS 313-COBOL.
 - b. **Technical support option:** CIS 324, 345, 362; Math 120, 305, 367.
 - c. **Data communication option:** CIS 324, 332, 362, 364, and an approved CIS internship.

NOTES:

1. When a 390 course is offered, the department will specify in which, if any, of the options (business, data communication, technical support) or the computer information systems minor, the course may be used as an elective.
2. A 499 course can be added as an elective only with the prior approval of the department chair.
3. Availability of CIS courses is limited in any semester.

Admission/Academic Standards for the CIS Major

1. If you declare CIS as your major, you are a "premajor" until you apply and are accepted. Applications are accepted in September and February each year. You must apply no later than the second semester of your sophomore year. Exceptions may be granted.
2. Before you can apply for admission to the CIS major, you must complete CIS 115, 210, 211, and one of Math 109, 111, 120, 355.
3. You may petition the department chair for a waiver of the CIS 115 requirement for the major or minor based on previous computing experience. If granted, the waiver does not reduce the total number of credits required to complete the major or minor.
4. You must have at least a 2.5 GPA in required CIS and Math courses, including transfer credits, and regardless of any declaration of academic bankruptcy.

5. Applicants are ranked by overall GPA. The top 30-40 will be selected each semester. The number admitted is based on available teaching resources.
6. You may apply for admission twice.
7. 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 a course is repeated, the most recent grade counts for the GPA.
8. CIS and Math courses taken pass/fail do not count toward the major.
9. You may petition the department chair to accept coursework done at other institutions, but no more than one-half the credits applied to your major may be earned outside UWSP. The department chair may allow modifications to this rule.
10. To maintain admitted status, you must maintain at least a 2.5 GPA in all courses taken at UWSP that count toward the CIS major.
11. If you do not maintain a 2.5 GPA, 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 may only register for courses required to complete the CIS minor.
12. If you are not admitted to the CIS major, you may register for CIS 215, 313 and one additional 300 level CIS course beyond the core courses. This allows you to complete the minor.

Computer Information Systems Minor

Consists of 22 credits: CIS 115, 210, 211, 220, 313, and an additional 300 level CIS course excluding CIS 395, 397, 499.

Computer Science Minor for Secondary Teacher Certification

Consists of 24 credits:

1. CIS 115, 210, 211, 220, 330, Math Ed 335, and one additional 300 level CIS course excluding CIS 395, 397, 499.
2. Required collateral mathematics major for teacher certification.
3. **Teacher Certification:** Enrollment caps are in effect for those seeking teacher certification. Please contact your department early for entrance requirements and application procedures. Also see information about the Professional Education program and the secondary education curriculum for teacher certification in the **Education** section of this catalog.

Learning Technologies Minor

Is listed under that heading later in this catalog.

Academic Standards for the CIS Minor

1. To minor in CIS, declare your intention no later than the second semester of your sophomore year.
2. Have no more than one grade below C- in any CIS course. If a course is repeated, 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.

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Test-Out and Credit-by-Exam Policy

You may receive credit-by-exam if you have taken the AP (Advanced Placement) exam. If you have a score of 3 or higher, you will receive credit for CIS 210.

If you have not taken the AP exam but have a great deal of programming experience, you may be placed into CIS 211 at the discretion of the department chair. If you receive a grade of B or higher in 211, you will receive retroactive credit in 210.

Courses in Computer Information Systems (CIS)

(I indicates first semester offering; II, second semester.)

CIS 101. Introduction to Computing. 2 cr. Survey, hardware, software, applications, social implications, campus computing environment. (I, II)

CIS 102. Practicum In Computing. 1 cr. A subtitle will be added for each section offered. May repeat for credit under different subtitles. (I, II)

CIS 115. Information Systems and Tools. 3 cr. Information needs of various organizations. Methods used to analyze, design, and implement information systems for organizations. Career opportunities; issues of information security, ethics, and privacy; experience with the latest productivity software, a programming language, and communication tools such the internet and email.

CIS 195/395. Seminar In Computing. 1-3 cr. Seminar in computing and computer applications for CIS majors or minors. Activities may include guest lectures and student presentations. Subtitle will indicate topic and credits. May repeat; 3 cr max may apply to CIS major or minor. Prereq: Cons instr.

CIS 210. Introduction to Programming I. 4 cr. Problem-solving, algorithm development, and computer programming in the microcomputer environment using a block structured language; how to design, code, debug, and document programs; introduction to files, arrays, and pointers. Prereq: 115 for CIS majors; none for nonmajors.

CIS 211. Introduction to Programming II. 4 cr. Prepare large programs requiring sequential and random access files, input verification, screen handling and multiple dimension arrays; using basic data structures such as arrays, stacks, queues, lists, and multilinked structures to represent information; individual and team projects. Prereq: 210.

CIS 220. Systems Analysis and Design. 4 cr. Overview of systems development life cycle; documentation of current and new system using structured tools/techniques for data, process, and network modeling; design and implementation of new system. Activities done in context of a semester-long systems application case study. Prereq: 211.

CIS 300. Living in the Information Age. 3 cr. Outline of the technological development occurring in information access and storage, and effects the information revolution is having on everyday life, professions, privacy, security, automation, law, government and employment. Does not count for CIS major or minor.

CIS 313. Production Programming. 4 cr. Apply programming language to significant professional situations. Individual and team projects. Study syntax and logic of the language. May repeat for credit under different subtitles. Prereq: 211.

CIS 319. Database Design and Implementation. 3 cr. Database development and processing using relational and nonrelational databases. Prereq: 313.

CIS 324. UNIX Operating System. 3 cr. Use of the UNIX operating system. Study various UNIX commands and capabilities. Writing and testing significant, structured UNIX shell scripts. Prereq: 211. (I)

CIS 330. Computer and Network Architecture. 3 cr. Identify, describe and install computer hardware components. Examine basic network concepts. Identify and install hardware needed to build small local area networks. Install application software on LANs. Prereq: 211 or cons chair.

CIS 332. Client/Server Computing. 3 cr. Study and analysis of distribution of computing functions between connected computers. Build front-end applications for client station using CIS development software. Plan and coordinate roles of the client front-end application, network operating system, middleware, and back-end services software. Build a complete and functioning client/server system. Prereq: 319.

CIS 345. Alternate Programming Languages. 3 cr. Examine one of the less frequently used or special purpose programming languages with emphasis on language structure. Subtitle will indicate the language. May repeat for credit with different subtitles. Prereq: 313. (II, odd years)

CIS 346. Contemporary Topics In Computing. 3 cr. Examine contemporary and emerging topics in computing. Subtitle will designate topic. May repeat for credit with different subtitles. Prereq: Jr st.

CIS 358. Systems Documentation. 3 cr. Instruction and practice in writing technical reports, feasibility studies, and user documentation. Prereq: 220.

CIS 362. Data Communication. 3 cr. Physical basis for communication; modulation techniques; synchronous and asynchronous transmission; analog and digital signalling; multiplexing; communication hardware and software; networks and protocols; routing algorithms; error detection and correction. Prereq: 211 and jr st. (I)

CIS 364. Network Management. 3 cr. Basic concepts of local and wide-area networks. Network topologies. Analysis of network needs. Network security, installation, and growth. Prereq: 211 and 220.

CIS 370/570. Computer Applications in the Classroom: (Subtitle). 1-3 cr. Examine use of computer software in a class. Identify specific software packages that will help students achieve class objectives. Integrate software in units of instruction. Develop implementation strategy that includes hardware/software acquisition and student access. Subtitle will indicate level (K-4, 9-10, etc.) and/or area of emphasis (math, science, etc.). Must have cons chair to count for CIS major or minor.

CIS 371/571. Microcomputer Operation: (Subtitle). 1 cr. Components of a computer; familiarization with a given type of microcomputer and its capabilities and limitations; survey of existing software. Subtitle will indicate type of computer. Must have cons chair to count for CIS major or minor.

CIS 373/573. Productivity Software: (Subtitle) 1-3 cr. Description of the system, including a variety of applications. Subtitle will indicate type of computers and/or software such as word processing, spreadsheet, database, or desktop publishing. Must have cons chair to count for CIS major or minor.

CIS 375/575. Introduction to Programming and Software for Teachers: (Subtitle). 1-3 cr. Techniques, design, and style; properties particular to the programming language or software package; programs and/or projects. Subtitle will indicate programming language or application (Pascal, C, HyperCard, DBase IV, etc.). Must have cons chair to count for CIS major or minor.

CIS 380/580. Advanced Programming and Software for Teachers: (Subtitle). 1-3 cr. Advanced programming in a specific language or software package (Pascal, BASIC, HyperCard, DBase IV, etc.). Techniques, program design tools including top-down design and pseudocode; programs and/or projects. Must have cons chair to count for CIS major or minor. Prereq: 375/575 or cons instr.

CIS 390/590. Special Topics In Computer Science. 3 cr. Subtitle will designate topic. Prereq: Cons chair.

CIS 397. Internship in Computing. 2-6 cr. Participate in supervised training work program that you arrange with your adviser in cooperating agency or business. Credit determined by adviser and chair following department guidelines. May repeat 6 cr max. Prereq: Jr st and cons chair.

CIS 480. Applied Software Development Project. 4 cr. Apply computer programming and system development concepts, principles, and practices to a comprehensive system development project; use team approach to analyze, design, and document realistic systems of moderate complexity; use project management methods, project scheduling and control techniques; formal presentations and group dynamics in the solution of information systems problems; develop a database to support the system. Prereq: 319, 358 and sr st; permission required. (I, II)

CIS 499. Special Work. Upperclass computer information systems students may arrange for independent study with cons chair. Credit based on scope of the project.

Courses in Computer Science Education

CSED 334. Techniques in Secondary Education: Computer Science. 3 cr. Aims, methods, materials, and content of high school computing courses. Prereq: Admission to the Professional Education Program and jr st.

CSED 398. Student Teaching In Computer Science. 4-16 cr; pass/fail. Observation and teaching in actual secondary school classrooms under the guidance of cooperating teachers and university faculty.

COMPUTER SCIENCE

See *Computer Information Systems*.

CONSERVATION BIOLOGY

See *Natural Resources*.

Cooperative Education

Career Services Office
Room 134, Main Building
Phone: 715-346-3226

In the cooperative education program you can gain one to five years experience in work related to your academic major or career goals. All students, freshmen to seniors, are eligible.

As a co-op student, you must register for your work periods, but you receive no academic credit. Registration means that a record of the work experience will be entered on your permanent record.

Courses in Cooperative Education

COOP 001. First Work Period. 0 cr. Prereq: Approval by the coordinator's office and acceptance by the employing organization.

COOP 002. Second Work Period. 0 cr. Prereq: Satisfactory completion of 001; see statement under 001.

COOP 003. Third Work Period. 0 cr. Prereq: Satisfactory completion of 002; see statement under 001.

COOP 004. Fourth Work Period. 0 cr. Prereq: Satisfactory completion of 003; see statement under 001.

COOP 005. Fifth Work Period. 0 cr. Prereq: Satisfactory completion of 004; see statement under 001.

DANCE

See *Theatre and Dance*.

DIETETICS

See *Health Promotion and Human Development*.

DRAMA

See *Theatre and Dance*.

EARLY CHILDHOOD EDUCATION

See *Education*.

EARLY CHILDHOOD: SPECIAL EDUCATION (formerly EEN)

See *Education*.

Earth Science

(College of Letters and Science)

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Earth Science Minor

Is administered by the Department of Geography and Geology and consists of 22 credits:

1. Geography 101, Geology 104, 106.
2. At least one course from each of the following groups:
 - a. Geography/Geology 352, Geography 353.
 - b. Geology 200, 320, 330, 370, 383.
3. Additional credits either from groups 2.a. and 2.b. above; or from the following to total 22 credits: Geography 393 (max 3 cr), 395 (for earth science topics); Geology 393 (max 3 cr), 395; Astronomy 311.

NOTES:

1. No more than three total field experience credits (Geology 393 or Geography 393) can be used to satisfy the earth science minor requirements.
2. If you want teacher certification in earth science, you must include Astronomy 311, and at least two field experience credits in Geography 393 and/or Geology 393.

Academic Standards

To be approved for graduation with a minor in earth science, you need a minimum grade point average of 2.00 (2.75 to student teach) in all courses taken within the minor, regardless of a declaration of academic bankruptcy. Required and elective courses in geology, geography, and astronomy will be included in determining the grade point average. Geology, geography, and astronomy courses taken at the 300 or 400 level on a pass/fail basis will not be credited toward the minor. Only UWSP credits and grades will be used to determine the grade point average.

ECONOMICS

See *Business and Economics*.



Education

(College of Professional Studies)

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Abbreviations:

Com Dis = Communicative Disorders

ECE = Early Childhood Education

Educ or Ed = Education

HD = Human Development

IRES = Instructional Resources

Math = Mathematics

Psych = Psychology

PROFESSIONAL EDUCATION PROGRAM ADMISSION PROCEDURES

If you are interested in any teacher certification program, you must apply for admission to the Professional Education Program after you have completed 45 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, CLEP, and test out may apply toward the 54 credits. Applications are available from the School of Education Advising Office, Room 470 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 junior and senior level education and instructional resources courses, you must be fully admitted to the Professional Education Program.

The following criteria must be **COMPLETED** to be eligible to apply for admission to the Professional Education Program.

1. Earn a 2.50 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 program, but you must have 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 2.50 GPA in 45 credits of courses you complete **after** declaring academic bankruptcy and any courses taken at other institutions.
2. Earn a 2.50 GPA in English 101 and 102 or a C or better in English 150 **–OR–**
 - a. Test out of English 101 and 102 through the department test-out exam or receive credit by examination for both courses.
 - b. Test out of one course (or receive credit by examination for it) and maintain a 2.50 GPA in the other course.
 - c. Receive a grade of B- or better in English 250.
 - d. Receive a passing score on the reading and writing portion of the Pre-Professional Skills Test (PPST) and receive grades of B or better in two writing emphasis (WE) courses.
 - e. Satisfactorily complete the required work in the Professional Writing Competency Program. (There is a fee for this program.)
3. Complete speech and hearing screening.
4. Receive a 50% 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 the program.
5. Receive scores within three points of the requirements on the PPST. **Appropriate accommodations are available if you have a documented disability or English as a second language. See personnel in the Education Advising Office for current passing score requirements and details about accommodations.**
6. If you are an early childhood education major or minor, or an elementary or exceptional education major, you must also complete the Pre-Professional Interview. Under extenuating circumstances you may repeat the interview with approval of the School of Education associate dean.
7. See the department of your major or minor for possible additional requirements.
8. If you meet the following criteria you may apply for a waiver of either the PPST score requirements OR the 2.50 grade point requirements by using the formal waiver application available in the Education Advising Office. If granted, this waiver allows you to apply to the Professional Education Program without meeting the requirements, although the actual scores or GPA will still be used in calculating rank. Deadlines for waiver requests are September 11 and February 7.
 - a. PPST score waiver requirements:
 - 1) Take and receive scores for PPST at least twice.
 - 2) Scores cannot exceed a six point deviation for the cut off.
 - 3) Related coursework must have grades of 3.0 or higher.
 - 4) Overall grade point from all accredited institutions attended of at least 2.50.
 - 5) Forty-five credits of instruction completed.
 - 6) Copies of the latest PPST results 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-five credits of instruction completed with a grade point of at least 2.50.
 - 3) Grades that show a significant improvement over minimum of two consecutive semesters.
 - 4) Copies of the latest PPST results and transcripts from all institutions.
 - 5) Letter explaining reasons for requesting waiver.
9. If you are not currently registered for coursework at UWSP at the time you apply to the program, please see the special rule concerning admission requirements for transfer students below.

The Watson-Barker Listening Test, Pre-Professional Interview and speech and hearing screening are offered at the beginning of every semester. A fee may be charged. The Pre-Professional Skills Test (PPST) is given through the ETS company for a fee and registration takes place at least four weeks in advance of a scheduled test. The PPST results take three to six weeks to be mailed. The Education Advising Office has information on dates, times and registration procedures for all requirements.

Transfer Student Admission Procedure

If you are a transfer student or have an undergraduate degree from an accredited institution, you may be admitted to the Professional Education Program if you complete items 1-7 above, are admitted to UWSP, and have paid the required deposit.

Enrollment Caps

Enrollment caps are in effect for all certification areas. Please see your major/minor department for more information.

If you are seeking admission to the Professional Education Program and are majoring or minoring in early childhood or exceptional education or majoring in elementary 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 apply twice for admission to the Professional Education Program.

You may appeal if you are denied admission to the program. You may contact the School of Education for information regarding the appeal process. Appeals for all certification programs will be handled by the School of Education Appeals committee. If you are not admitted, you will not be allowed to pursue teacher certification or a teaching major/minor at UWSP or register for junior and senior level early childhood, education, and instructional resources 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 that you may choose.

EARLY CHILDHOOD EDUCATION

Early Childhood Education Major (Prekindergarten through Grade 3)

Enrollment caps for early childhood education majors and minors are in effect.

If you wish to prepare for early childhood education, you may:

1. Major in early childhood education, which leads to prekindergarten through grade 3 certification; or
2. Major in elementary education, taking the early childhood education minor for teacher certification and student teach in the minor.

Requirements:

1. Complete the requirements for the B.A. or B.S. 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, 228, and 328.
- b. In the critical thinking/natural science sequence, take 13-15 credits, including no more than one 3-credit course, and at least two 5-credit courses in these three disciplines:
 - 1) Physical science: Chemistry 100 or 101; Physics 100 or 101; Astronomy 100, 205, 206, or 311.
 - 2) Earth science: Geography 100 or 101; Geology 100.
 - 3) Life science: Biology 100 or 101.
- c. Take 27 credits to fulfill the critical thinking/cultural awareness requirement, including one course in non-Western culture (NW) and one course in minority studies (MNS).
 - 1) History: Take History 212 and three more credits from History 120, 130(MNS), 211, *379(MNS), *382(MNS), *385.
 - 2) Social Science: Take HD 261 and 367; Psych 110; Political Science 201.
 - 3) Humanities: Take 3 credits from English 211, 212, 213, or 214; and 3 credits from Humanities Area 1.
- d. Take Natural Resources 370 to fulfill the environmental literacy requirement and DPI's environmental education requirement.
- e. Take Phy Ed 231 to fulfill part of the wellness requirement. HD 367, listed above, completes the wellness component.

*These courses do not meet general degree requirements in the category listed.

After you have completed 45 credits, apply for admission to the Professional Education Program. For a list of the admission criteria, see that section above.

2. Take 32 credits of professional education: ECE 262, 460; Educ 205, 351, 381; HD 466; IRES 331; and 13 credits of a combination of Educ 398, 400 and ECE 398.
3. Take 23 credits of education methods: ECE 366, 368; Educ 309, 310, 324, 325; HD 360; Math Ed 228, 328.
4. Take 6 credits of related professional subject matter: Com Dis 266; English 274.
5. Show proof of completion of First Aid and CPR training on campus or through the Red Cross.
6. Achieve 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.

Early Childhood Education Minor (Prekindergarten and Kindergarten)

Enrollment caps for the early childhood education minor are in effect.

Open to elementary education majors only. The minor provides professional preparation and includes student teaching at the early childhood level.

Required courses: 24 credits. ECE 262, 364, 366, 368, 460; HD 261, 360, 466.

ELEMENTARY EDUCATION

Elementary Education Major (B.A. or B.S.)

(Grades 1-6 or 1-8 elementary and 1-9 in the minor when middle school applies)

Enrollment caps for elementary education are in effect.

1. Complete the requirements for the B.A. or B.S. 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 228.
 - b. In the critical thinking/natural science sequence, take 13 to 15 credits, including no more than one 3-credit course, and at least two 5-credit courses in these three disciplines:
 - 1) Physical science: Chemistry 100 or 101; Physics 100 or 101; Astronomy 100, 205, 206, or 311.
 - 2) Earth science: Geography 100 or 101; Geology 100.
 - 3) Life science: Biology 100 or 101.
 - c. Take 24 credits to fulfill the critical thinking/cultural awareness requirement, including one course in non-Western culture and one course in minority studies. Social science and humanities together must equal 18 credits.
 - 1) History: Take History 212 and 3 more credits from History 120, 130, 211, *379(MNS), *382(MNS), or *385.
 - 2) Social Science: Take at least 9 credits, including Psych 110 and 260; Political Science 201.
 - 3) Humanities: Take 6-9 credits, including at least one of: English 211, 212, 213, or 214.
 - d. Take Natural Resources 370 to fulfill the DPI's environmental education requirement and UWSP's environmental literacy requirement.
 - e. Take Phy Ed 231 and Health Ed280 to fulfill the wellness requirement.

*These courses do not meet general degree requirements in the categories listed.

After you have completed 45 credits, apply for admission to the Professional Education Program. For a list of the admission criteria, see that section above.

2. Take 24 credits of professional education: Educ 205, 381, 383, 398, 400, and IRES 331.
3. Take 21 credits in education methods: Educ 302, 309, 310, 324, 325, 351; Math Ed 228, 338, and 345.
4. Take 15 credits of related professional subject matter: Art Ed322, English 275, Fine Arts 116, Math 338, and Music Ed381.
5. For 1-6 certification you must complete a 22-credit minor; it does not have to be a certifiable minor. See the chart for a list of minors that were established especially to meet the needs of elementary education majors. For 1-8/1-9 certification you must complete a **certifiable** minor, student teach in that minor in a middle school, and take Educ 385.
6. Show proof of completion of First Aid and CPR training on campus or through the Red Cross.

7. Achieve 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 a 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.

Elementary Education Curriculum for County College Graduates

If you graduated from the regular state-approved two-year county teachers college course, you may be tentatively admitted to junior standing in professional education if the associate dean of the School of Education determines that your record is satisfactory.

If you attended a county teachers college in 1970-71 and 1971-72 and successfully completed at least 32 semester hours of work in elementary education, you can transfer to UW-Stevens Point and receive credit for 32 semester hours of nonspecific credit. If you have not taught for 10 years, you need to retake methods coursework.

Middle School Level Add-On Option

This option extends elementary/middle school certification to grades 1-8 elementary and 1-9 in the minor. This option extends secondary/middle school certification to grades 5-12 or 6-12. You must complete the following in addition to elementary or secondary certification:

1. Educ 385, 3 cr.
2.
 - a. Elementary/middle school certification: Complete a certifiable minor or a second certifiable major for grades 1-8/1-9.
 - b. Secondary/middle school certification 5-12: Complete a certifiable major and a certifiable minor or a second certifiable major.
 - c. Secondary/middle school certification 6-12: Complete a certifiable major. No minor is required.
3. Educ 398 or 397, variable credit. You must student teach in your major in order to student teach for middle level endorsement(s). Student teaching assignments at middle levels are subject to availability and approval.
 - a. For elementary/middle school certification you must student teach at both elementary and middle school levels in the area of the certifiable minor (or second certifiable major).
 - b. For secondary/middle school, grades 5-12, you must student teach in both the certifiable major and certifiable minor (or second certifiable major) as well as at both the middle and secondary levels.
 - c. For secondary/middle school, grades 6-12, you must student teach in the certifiable major at both the middle and secondary levels.

SECONDARY/K-12 EDUCATION**Secondary Education Curriculum for Teacher Certification****(Grades 9-12 or grades 5-12 or 6-12 when middle school certification applies)**

Enrollment caps for secondary/K-12 programs are in effect.

Meet the following requirements:

1. Complete the requirements for the B.A., B.F.A, B.M., or B.S. described in the **General Degree Requirements** section of this catalog.
2. Meet your history requirement for certification by taking History 212 and then choosing 3 additional credits from History 120, 130, 211, *379(MNS), *382(MNS), *385. *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 the requirements for the teaching major or minor sometimes differ from the requirements for the nonteaching major or minor.
4. Take the following courses for certification:
 - a. Educ 205, 351, 381, 386 (or English 381 if you are an English major or minor), 390 (or English 355 and 356 if you are an English major or minor), and IRES 331 (or department equivalent).
 - 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 (may include Educ 400). See the Student Teaching section below.
 - e. Political Science 201 unless your major, minor, or concentration includes the same coursework (Political Science 101 and 242).
 - f. Science majors and minors take Natural Resources 370. Social science majors and minors take Natural Resources 370 (except philosophy, religious studies, or psychology majors who do not major or minor in another social science field) and Economics 210 or 272 unless it is part of a broad-field major.
 - 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 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 a 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.

Communicative Disorders Certification

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 (B.S.)**

Enrollment caps: The top 25 students who apply during each year will be admitted. When you meet the School of Education guidelines for admission to the Professional Education Program, you will apply for one specialization in special education for K-12 or two specializations for K-9 or 6-12. If you seek additional certification, you will take the additional course and student teach after graduation.

1. Complete the requirements for the B.S. 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 101/102 or 150; Math 100 and 228.
 - b. In the critical thinking/natural science sequence, take 13 to 15 credits, including no more than one 3-credit course, and at least two 5-credit courses in these three disciplines:
 - 1) Physical science: Chemistry 100 or 101; Physics 100 or 101; Astronomy 100, 205, 206, or 311.
 - 2) Earth science: Geography 100 or 101; Geology 100.
 - 3) Life science: Biology 100 or 101.
 - c. Take 24 credits to fulfill the critical thinking/cultural awareness requirement, including one course in non-Western culture and one course in minority studies. Social science and humanities together must equal 18 credits.
 - 1) History: Take History 212 and 3 credits from History 211, *379(MNS), *382(MNS), *385.
 - 2) Social Science: Take at least 9 credits, including Psych 110 and 260 or HD 261; Political Science 201 or 101 and 242.
 - 3) Humanities: Take 6-9 credits, including at least one of: English 211, 212, 213, or 214.
 - d. Take Natural Resources 370 to fulfill UWSP's environmental literacy requirement and the DPI's environmental education requirement.
 - e. Take 3 credits of wellness courses: choose at least one credit of aerobic activity and at least one credit of health enhancement from Food and Nutrition 151, Health Ed 104, HD 367, Phy Ed 102, Psych 290 to fulfill wellness requirement.

*These courses do not meet general degree requirements in the categories listed.

2. After you have completed 45 credits, apply for admission to the Professional Education Program. For a list of the admission criteria, see that section above.
3. **Professional Education**, 22 cr: Educ 205, 302, 309, 310, 314, 381, 383; IRES 331; Math Ed 228.
4. **Exceptional Education**, 21 credits: Educ 351, 356, 362, 368, 378, 397; Com Dis 367.
5. **Specialization:** Choose one or two teaching specialization to complete the major.
 - a. **Early Childhood: Special Education**, 19-25 credits: ECE 364; Educ 365, 366, 367, 398, 400.
 - b. **Emotional Disabilities**, 13-18 credits: Educ 364, 369, 398, 400.
 - c. **Learning Disabilities**, 13-18 credits: Educ 364, 369, 398, 400.
 - d. **Cognitive Disabilities-Borderline**, 13-18 credits: Educ 364, 369, 398, 400.

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- Achieve 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.
- Earn a grade of "pass" or a 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.
- To graduate, see "Graduation" in the **More Academic Information** section of this catalog.

Up to two teaching specializations may be taken. Certifications are for grades K-12 in emotional disabilities, learning disabilities, and cognitive disabilities-borderline unless you want certification at only one level, elementary or secondary. In that case you must complete two certifications.

Notes Regarding Teacher Certification for Exceptional Education Majors

- 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.
- Be sure you understand and fulfill the human relations requirements of the Wisconsin Department of Public Instruction. You can pick up a copy of the human relations requirements checklist from the School of Education Advising Center, Room 469, CPS Building.

Exceptional Education Minors for Elementary/Secondary Teachers

Teacher of Students with Early Childhood: Special Education Minor

- Complete a major certification program in elementary, exceptional, or early childhood education.
- Take ECE 364 (ECE majors do not need 364) and Educ 365, 366, 367, 378, 398 and 400.
- Enrollment cap: 25 students will be admitted per year.

Teacher of Students with Exceptional Educational Needs Minor

- Professional Education: Complete a major certification program in education which includes: Educ 309 and/or 386 (see adviser), 351, 381, 383, 398, 400, HD 261 or Psych 260, and methods courses in your instructional areas. Certification grade levels depend on initial certification program.
- General Exceptional Education: Educ 356, 362, 364, 368, 369, 378, Com Dis 367.
- Complete one of the following areas of certification:
 - Teacher of students with emotional disabilities: no additional coursework required.
 - Teacher of students with learning disabilities: Educ 310.
 - Teacher of students with cognitive disabilities-borderline: no additional coursework required.
- Enrollment caps: Eligible students will seek only one area in special education. A total of 60 students will be accepted per year with a maximum of 30 students per certification area in ED, LD, MR/CD.

Exceptional Education, Graduate Certification Programs

See the *Graduate* section of this catalog.

STUDENT TEACHING

Henry St. Maurice, Director of Field Experiences
Room 112, College of Professional Studies Building
Phone: 715-346-2449
E-mail: hstmauri@uwsp.edu

In this final step in your preparation for teaching, you demonstrate practical competence in one of many schools which cooperate with UW-Stevens Point in providing field experiences. As a student or intern teacher you would 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. You will be notified in writing if your assignment requires special fees.

Please don't plan to student teach in a school in which your child is enrolled or in which 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 would be counted as an assignment.

The semester before you student teach, you must attend an orientation meeting where you will be informed about the requirements for student teaching.

General Requirements for Eligibility to Student Teach

- Be admitted to the Professional Education Program after earning 54 credits. Apply at the School of Education Advising Office, Room 470, CPS Building.
- Earn a 2.75 GPA in your major, minor, concentration, and education courses to student teach. Earn a 3.00 GPA to be a teaching intern.
- You must complete all teaching methods/techniques courses **BEFORE** you student teach.
- The semester before you student teach, submit your completed application forms by the date set by the Office of Field Experiences.
- Receive written recommendation from the department chair or associate dean.
- Present a medical statement indicating that you have been examined within the last two years and are free from tuberculosis.
- Dates of student teaching assignments are set according to the school district semester, not the university semester.

Student Teaching Plans

Plan A: Full Semester Student Teaching

Before student teaching, complete all work toward your major, and your minor if you wish to student teach in it.

You must register for student teaching in appropriate sections and for credits as your advisers approve. You will spend a full semester student teaching according to the daily schedule and semester calendar of an approved cooperating school. You may be asked to return to

campus for one or more seminars or to confer with UW-Stevens Point instructors.

Plan B: Internship for Elementary and Secondary Teachers.

You may be selected to enroll as an intern teacher at any one of many levels. You must complete all required courses in professional education before you begin your teacher 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 teach it.

Plan C: Split-Semester Student Teaching

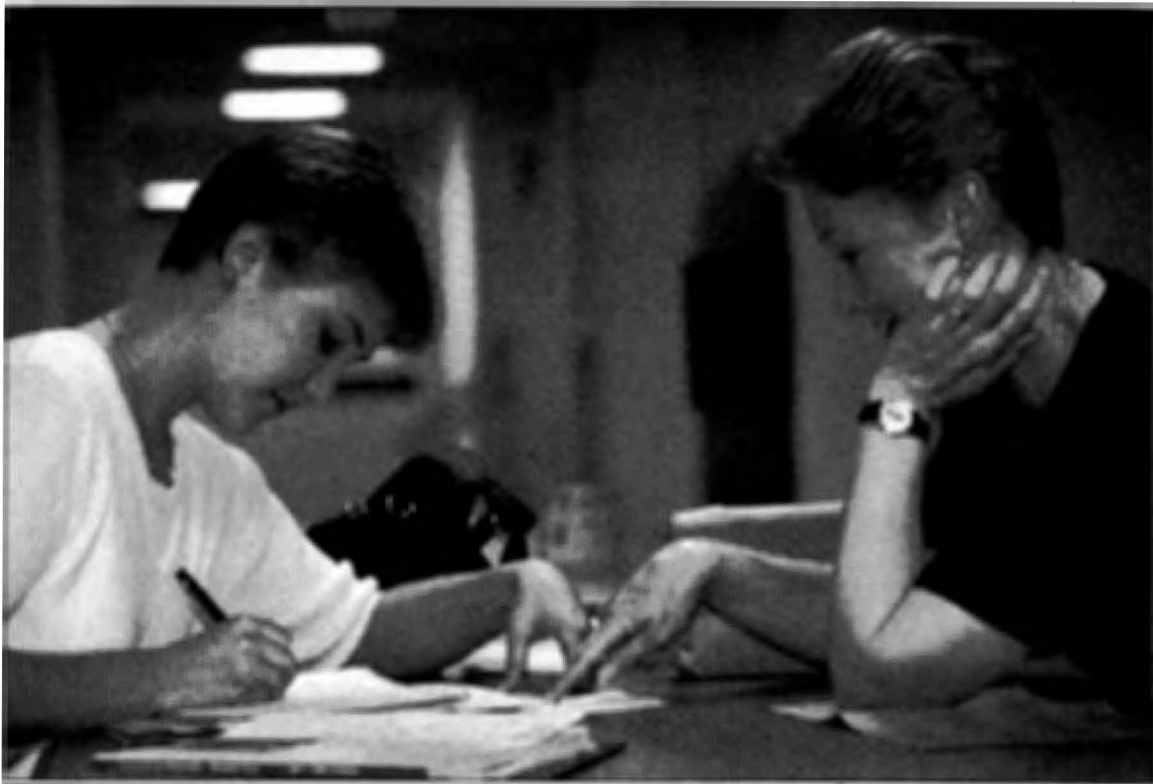
Before student teaching you must complete all requirements in a major, as well as requirements for a middle school add-on and/or certifiable minor. You must student teach in your major in order to request another student teaching assignment. You must obtain written approval from both major and minor programs, where applicable. If approved, additional assignments take place during the student teaching semester in sequences and locations coordinated by the Office of Field Experiences. Typically, assignments change at the end of a quarter.

TEACHER CERTIFICATION

Joan North, Dean of the College of Professional Studies
and Certification Officer
Room 112, College of Professional Studies Building
Phone: 715-346-3169
E-mail: jnorth@uwsp.edu

Notes for Teacher Certification

1. Applications for initial licensure are processed only after you complete all degree requirements and your degree is conferred.
2. For initial licensure in Wisconsin, you must fulfill all human relations requirements of the Wisconsin Department of Public Instruction. You can pick up a copy of the human relations requirements checklist from the School of Education Advising Office, Room 470, CPS Building, or from the Certification Office, Room 112, CPS Building.
3. The DPI is considering requiring exit exams before issuing licenses. This requirement may go into effect during the life of this catalog.
4. Certification areas:
 - a. Elementary certification covers grades 1-6;
 - b. Early childhood education certification covers grades PK-3;
 - c. Secondary certification covers grades 9-12.
 - d. A limited number of middle school add-on certifications are available which
 - 1) Extend the 1-6 elementary certification to grades 1-8 in elementary/middle,
 - 2) Extend the 1-6 elementary certification to 1-9 in the minor,
 - 3) Extend the 9-12 secondary certification to grades 5-9 or 6-9.
 - e. Certification for exceptional education, ESL, music, and health education is PK-12 or K-12, or 6-12, or K-9.
 - f. The reading certification (available only to teachers with three years of experience), physical education, and speech-language certifications are K-12 or PK-12.



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 with a middle school add-on only in certifiable minors.

	Major	2ndry Minor	Elem Minor	Grad Cert
Anthropology		@		
Biology	#	@		
Chemistry	#	@		
Coaching		@		
Communicative Disorders				x
Computer Info Systems		@		
Early Childhood Education	#		◊*	
Earth Science		@		
Economics	#	@		
Elementary Education	#			
English	#	@	◊	
English as Second Language		@	◊	
Environmental Education			◊	
Exceptnl Ed with specializations:				
Early Childhood:EEN	#	@	◊*	x
Emotional Disturbance	#	@	◊	x
Learning Disabilities	#	@	◊	x
Cognitive Disab-Borderline	#	@	◊	x
Family/Consumer Education	#			
Foreign Language/ Elem Sch			◊	
French	#	@	◊	
Geography	#	@	◊	
German	#	@	◊	
Health Education		@	◊	
History	#	@	◊	
Learning Technologies			◊	
Mathematics	#	@	◊	
Music Ed, General K-12	#			
Music Ed, Instrumental K-12	#			
Music Ed, Choral 7-12	#			
Music Ed, Special Education	add-on			
Natural Science	#			
Philosophy	#	@		
Physical Education	#			
Physical Educ for Excep Indl		add-on		
Physics	#	@		
Political Science	#	@		
Psychology	#	@		
Reading				x
Religious Studies		@		
Resource Management	#	@		
Russian		@		
Social Science	#		◊	
Sociology	#	@		
Spanish	#	@	◊	

*Not available for middle school add-on.

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 area before you can enroll in the course.

ECE 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.

ECE *364. Curriculum and Methods for Young Children: Math, Science, Social Science, and Health Education. 3 cr. Introduction to curriculum principles and methods for a developmentally appropriate environment for young children in math, science, social studies and health education. 2 hrs lec, 2 hrs practicum per wk. Prereq: ECE 262, HD 261.

ECE *366. Curriculum and Methods for the Emergent Reader/Writer. 3 cr. Introduction to curriculum and methods for implementing a developmentally appropriate emergent literacy program. 2 hrs lec, 2 hrs practicum per wk. Prereq: ECE 262, HD 261.

ECE *368. Curriculum and Methods for Young Children: Art, Creative Dramatics, Creative Movement, and Music. 3 cr. Introduction to curriculum and methods for using expressive arts and the characteristics of play to enhance the development and learning of young children. 2 hrs lec, 2 hrs practicum per wk. Prereq: ECE 262, HD 261.

ECE *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 environment.

ECE *460. Home, School, Community Agencies. 3 cr. Theory and philosophy of processes used to establish positive relationships among home, school, and agency personnel.

ECE *462. Administration of Programs for Children and Families. 2 cr. Analysis of administrative job responsibilities such as job selection, faculty development, role of regulatory agencies, and use of resources. Prereq: ECE 368 or cons instr.

ECE *498. Intern Teaching. Variable cr; pass/fail. Structured field experiences in approved school programs. Interns are certified by the DPI and are employed under contract with schools to design, deliver, and assess instructional programs in grades n-k-12. Prereq: Complete all methods courses and 75% of content courses in approp major. Con reg in approp section of Educ 400 may be required.

Courses in Education

Education courses are also listed under the following headings: Biology Ed, Communicative Disorders, Computer Science Ed, Early Childhood Ed, English Ed, Family and Consumer Ed, Foreign Language Ed, Health Ed, Instructional Resources, Mathematics Ed, Music Ed, Physical Ed, Physical Ed for Exceptional Individual.

All course descriptions are general; content, field trips, and resources may vary according to advances in the discipline, availability and accessibility of resources, and the needs of the students in each course and section.

An asterisk (*) in front of the course number means that you must be admitted to the relevant Professional Education Program area before you can enroll in the course.

EDUC 102. The Exceptional Child. 1 cr. Study of characteristics, guidelines, methods, and educational strategies that apply to educating the exceptional child in the regular classroom. Prereq: Cons instr.

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 205. Education in a Pluralistic Society. 1-2 cr. (field experience, 1 cr. pass/fail). Analyze and evaluate education in the U.S., the policy of equal educational opportunity, and the impact of class, gender, race, and language differences on teaching and learning. Field experience required.

EDUC 280. Foundations of Education. 3 cr. Introduction to historical, philosophical, psychological, societal, and cultural forces that have, are, and will have impact on the structure of American education. Also examination of current education issues and trends that affect teachers' professional development. Field experience required.

EDUC *301. Techniques in Kindergarten Education. 3 cr. Comparative study of kindergarten philosophies and curricula; study of materials, techniques, and resources appropriate for all areas of kindergarten education. Observations required.

EDUC *302. Comm Arts: Introduction to Literacy. 3 cr. Introduction to the reading process, to include word recognition, vocabulary, comprehension study strategies and classroom organization for elementary and middle school.

EDUC *309/509. Comm Arts I. 3 cr. Materials and methods for teaching literacy including basic instructional and assessment measures for teaching literacy in the elementary and middle school.

EDUC *310. Comm Arts II. 3 cr. Methods and materials for teaching language arts with attention to integrating reading, writing, speaking, and listening in elementary and middle school.

EDUC 311. Techniques for Intermediate and Upper Grades—Mathematics, Social Studies, Science. 4 cr. Principles, aims, methods, and techniques. 3 hrs lec; observation and 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 unique needs as learners. Prereq: 351.

EDUC 320. Techniques in Elementary School—Guidance. 3 cr. Policies and practices of organized guidance in the elementary school; personal, social, and educational adjustment problems and needs. Prereq: 383 and teaching experience.

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 arr per wk.

EDUC *325. Techniques in Elementary School—Science. 3 cr. Principles, aims, methods, techniques, and field experiences. 2 hrs lec, 2 addl hrs to be arr per wk.

EDUC 327. Teaching Reading to Gifted and Talented Students. 3 cr. Procedures and materials for teaching reading to gifted and talented learners in grades K-12; develop teaching materials based on current research. Prereq: 309 or 386/586, or cons instr.

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 *330. Techniques in Secondary Education—Accounting. 2 cr. Aims, methods, materials, techniques, planning, organization, testing, etc., that apply to high school teaching.

EDUC *335. Techniques in Secondary Education—Mathematics. 3 cr. Aims, methods, materials, techniques, planning, organization, testing, and field experience.

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 350. Organization and Administration of Outdoor Education. 3 cr. Objectives, scope, and administrative aspects of outdoor education, including the role of school forests, day camps, school gardens, community resources, and other outdoor educational techniques.

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 352. Workshop in Mental Health. 4 cr. Understanding the role of good mental health in schools including theory, mental health education, emotional growth, and special school and community services for the emotionally handicapped.

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; monitoring ongoing progress; learning the administration and interpretation of norm-referenced and criterion-referenced individual assessment tests including recording behavioral data, using rating scales and curriculum-based assessment; including field experience. Prereq: 351/551.

EDUC 360/560. Workshop in Elementary Education. 2-4 cr. Problems of teaching in various elementary school curricular fields. Subtitle will designate area(s).

EDUC 361. Identification and Use of Community Resources. 2 or 3 cr. Assess potential instructional use of community people, places, natural and man-made materials; design lessons and activities for their use in and out of the classroom. Third credit includes media component based on effective use of resources. Prereq: IRES 331 or cons instr for 3 cr.

EDUC 362. Classroom Management Techniques and Strategies. 3 cr. Comprehensive management of behavior problems of children and adolescents in regular classrooms 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. Identification and Assessment of Young Children with Disabilities. 3 cr. Develop specific assessment techniques for use with infants and children (birth through eight years) having high risk and/or disabilities and in cooperation with family members and related service professionals. Includes field experience. Prereq: 351/551.

EDUC 366/566. Methods in Teaching Young Children with Disabilities. 3 cr. Instructional methods and strategies for teaching young children (birth through eight years) with disabilities and their families. Includes field experience. Prereq: 365/565.

EDUC 367/567. Current Issues and Program Strategies for Young Children with Disabilities. 3 cr. Discuss current, medical, and diagnostic issues associated with working with families having children (birth through eight years) with disabilities. Specific procedures in maintaining effective early intervention and primary programs. Prereq: 366/566.

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 the elementary and secondary levels in the areas of science, social sciences, as well as 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.
371. Aerospace.

EDUC 372. Techniques of Outdoor Education. Materials, methods, planning, curricular development, and practicum in outdoor education. Prereq: 350 or con reg.

EDUC 374. Workshop in Education: Group Dynamics in Secondary School. 2 or 3 cr. Group dynamics, leadership skills, and comparison of teacher roles in large and small groups; theory and techniques for optimal involvement and learning.

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

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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 382. Philosophy of Education. 3 cr. Educational philosophies underlying various methods of teaching and organizing subject matter; relation of political and social philosophies to national education systems, different school organization plans, and various types of schools.

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. A comparison of the abilities of humans and sophisticated machines: definition, difference, 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. A survey of issues, research, theory, process, and strategies which constitute reading in the secondary school including a clinical experience.

EDUC 387. Corrective Reading in Secondary School. 3 cr. Procedures for content area teachers to analyze and correct student reading problems. Prereq: 386/586.

EDUC 389. Issues in Vocational and Technical Education. 2 or 3 cr. Administration and organization of vocational and adult education on national, state, and local levels.

EDUC *390. Reading Methodology for Specific Subject Matter Areas. 3 cr. In-depth development of reading instruction in student's subject matter area including investigation of supplementary materials, use of reading-writing connection, and study strategies.

EDUC 391. Teaching Minorities. 3 cr. Differences in race, color, religion, economics, ethnic background, or sex; ways to improve self-concept, social position, and success in school. Subtitle will designate area(s). May repeat once with different subtitle.

EDUC 394. Alternative Education. 1 or 2 cr. Forms of alternative schools, innovative educational programs, and nontraditional approaches currently used in public and private schools. Prereq: Admission to the School of Education or teacher's certificate. (1 cr, orientation; 2 cr, develop proposal)

EDUC *395/595. Teaching in the Middle School. 3 cr. Organization and curriculum of middle schools; physical facilities, instructional materials and resources; school transition programs and procedures; group advisory programs, family and community involvement programs; types of student populations, behavior standards and management scheduling, instructional and support systems; teachers, administrators, and support staff essential to effective middle level education. Prereq: 381, 385/585 or cons instr.

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: Admission to Professional Education Program and approval of each certifying department; application with Office of 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 will be based on the scope of the 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. Prereq: Complete all methods courses and 75% of content courses in approp major. Con reg in approp section of Educ 400 may be required.

EDUC 701. Philosophical Foundations of Education. 3 cr. Analysis of 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. Theories of Learning. 3 cr. Classical and contemporary theories of learning; critical analysis of learning theories with implications for classroom learning situations.

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 of educational research procedures and development of 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 and Econ 717.

EDUC 721. Fundamentals of Curriculum. 3 cr. Fundamental ideas in developing curriculum, emphasizing human aspects.

EDUC 722. Elementary School Curriculum. 3 cr. Basic concepts, modern trends, relationship of foundation areas to problems of curriculum development.

EDUC 733. Elementary School Science. 3 cr. Survey of the philosophy and nature of a science, new elementary science curricula and research, innovative and experimental programs.

EDUC 735. Leadership for Curriculum Change. 3 cr. Study specific curricula including instructional strategies and models of instruction, and develop leadership skills for developing, implementing, and supervising curriculum.

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 of 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 in this area. Prereq: 309, 741, 746.

EDUC 748. Remedial Reading Practicum. 3 cr. Clinical appraisal of remedial readers and programs. Interpret findings, develop and execute corrective measures. Continuous instruction, analysis and evaluation of a remedial reader. Final report describing nature of reader, techniques and materials used, and recommendations for post-clinical instruction. Prereq: 741, 746, 747.

EDUC 749. Seminar In Reading. 3 cr. The nature and treatment of problems in reading instruction. Prereq: Cons instr.

EDUC 750. Supervision and Administration of Reading Programs. 3 cr. Organization, administration, supervision, and improvement of schoolwide reading programs. Prereq: Cons instr.

EDUC 752. School Law for the Teacher. 3 cr. The impact of statute and court decisions upon teachers; the effect upon student rights, discipline, tort liability, financing, private and religious education, and equal opportunity.

EDUC 771. Supervision of Instruction. 3 cr. Evolving concepts and strategies of supervision; role of supervision in facilitating educational change, giving it direction and increasing its effectiveness; supervision as essential function for developing curriculum and improving instruction; training in and application of systematic observation and data analysis systems.

EDUC 772. Teacher Induction Year. 1 or 3 cr. Survey of issues and practices encountered by beginning and experienced teachers new to Stevens Point and Wausau school districts during their induction year. Open only to teachers new to Stevens Point and Wausau school districts.

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 and Programming for Severely Disturbed and Learning Disabled. 1-5 cr. Development, implementation and evaluation of instructional approaches to learning, along with the use of appropriate methodologies for severely emotionally disturbed and learning disabled students.

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, and writing of a seminar paper in exceptional education.

EDUC 789. Social and Emotional Needs of the Gifted. 1-3 cr. Social and emotional needs of gifted learners with emphasis on guidance and the affective domain. Prereq: 791 or cons instr.

EDUC 790. Analysis and Improvement of Educational Programs. 1-3 cr. Designed for school district in-service needs. Topic and number of credits vary. Prereq: Teaching experience.

EDUC 791. Introduction to Gifted/Talented Education. 3 cr. Nature and needs of the gifted/talented learner. Overview of history, definitions, identification strategies, and program provisions in gifted education. Introduction to current literature in gifted education.

EDUC 792. Curriculum for the Gifted and Talented. 3 cr. Overview of curriculum planning, teaching models, and appropriate teaching strategies/methods for gifted learners. Develop sample lessons in various teaching models. Examine current literature. Prereq: 791 or cons instr.

EDUC 793. Issues In Gifted/Talented Education. 3 cr. Identify and examine current issues and concerns in gifted education. Content depends on student needs and interests. Prereq: 791 or cons instr.

EDUC 794. Creativity In the Classroom. 3 cr. Theory of creativity within a hierarchical model. Understand, practice, and apply various theories to classroom function.

EDUC 795. Practicum In Teaching Gifted/Talented Learners. 3 cr. Teach gifted/talented learners and develop instructional activities using appropriate methods. Prereq: 791 and 792 or cons instr. May take twice with cons instr and adviser.

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

EDUC 797. Methods of Teaching Gifted Learners. 3 cr. Strategies and techniques appropriate for gifted and talented learners. Curriculum differentiation and modification; cognitive and affective domains; creative and critical thinking; leadership, the arts, and content areas. Prereq: 791 or cons instr.

EDUC 798. Supervised Field Experience In K-12 Reading Programs. 1-3 cr. Practical application of training in working with developmental and disabled readers. Leadership and management experiences in in-service presentations, consultant work, research implementation, and program and pupil evaluation techniques. Interaction with administrators to develop reading programs. Prereq: 750 or con reg.

EDUC 799. Thesis. 2-6 credits.



English

(College of Letters and Science)

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English Major (General)

Consists of 32 credits beyond freshman English including 18 credits taken in courses numbered 300 and above.

1. English 200.
2. Survey of British literature, 6 credits: 211 (or 321, 323a, 323b, 366) and 212 (or 324, 325, 327).
3. Survey of American literature, 6 credits: 213 (or 329, 313a) and 214 (or 313b, 320, 360, 382).
4. Language, 3 credits: 240, 342, 344, 346.
5. Masters, 6 credits: 330, 333, 334, 336, 385.
6. Electives: 8 credits including one 3 credit 300 level literature course beyond the requirements above and at least 5 credits of electives from:
 - a. Courses listed above that are not used for those requirements.
 - b. Other English courses: English 303, 308, 309, 310, 311, 312, 314, 319, 350, 351, 352, 353, 354, 357, 358, 359, 361, 362, 363, 365, 370, 376, 377, 378, 380, 383, 395, up to 3 cr of 498.
 - c. Maximum of 3 credits of English 157, 257, 357, and 399.

English Major for Teacher Certification

Consists of the requirements for the English major above plus:

1. Writing, 3 credits from: 250, 251, 253, 254, 350, 351, 352, 353, 359. (354 does not count for teacher certification).
2. Reading, 3 credits. English 381 is recommended. You can take Education 386 to meet the reading requirement for teacher certification, but it does not count toward the English major.
3. Methods, 4 credits: English 355, 356.
4. You may substitute English 345 for the language requirement of the English major above.
5. Literature, 3 credits: English 375.
6. Student teaching, 16 credits: English Education 398.

NOTE: Because of enrollment limits in the teacher certification program, some qualified students may not be admitted to English education courses. 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 specific requirements.

English Minor

Consists of 24 credits beyond freshman English including 12 credits taken in courses numbered 300 and above. Complete requirements 1-5 of the general English major above.

English Minor for Teacher Certification (Secondary)

Consists of the English minor above plus the requirements for teacher certification listed in the major above.

English Minor for Elementary Education Majors

Consists of 24 credits beyond freshman English including 12 credits taken in courses numbered 300 and above.

1. English 200.
2. Either English 275 or 375.
3. Either English 250 or 253.
4. Either English 342 or 345.
5. Either English 355 or 356; and English 396 or 497.
6. Electives: 9 credits of any 200-300 level English courses not already taken above. Pick electives that will emphasize writing, language, or literature.

Writing Minor

Consists of 24 credits beyond freshman English including 12 credits taken in courses numbered 300 and above.

1. English 200.
2. Language, 3 credits from: English 240, 342, 344, 346.
3. Literature, 3-6 credits from: 103, 106, 108, 170, 203-214, 280-336, 360-366, 376, 377, 378, 380, 382, 383, 385.
4. Writing, 12-15 credits from: English 157, 250, 251, 253, 254, 257, 350, 351, 352, 353, 354, 357, 358, 359, up to 3 cr of 498. The chair may approve up to 3 credits of writing courses from other departments providing you submit a portfolio containing at least 5000 words that is worth an English grade of B or better.

The writing minor is not teacher certifiable, but is generally favored by public school employers as a complement to the English major. Other complementary minors are foreign language, communication, or theatre arts.

English Major with a Writing Minor

Requires 48 credits beyond freshman English including:

1. Requirements for the English major.
2. Writing: 15 credits from the writing minor.
3. Electives: a minimum of 9 credits from English offerings and acceptable comparative literature courses.

English as a Second Language

For the ESL teacher certifiable minor and the ESL teacher add-on certification requirements, see the *Foreign Languages* section of this catalog. For intensive ESL courses for non-native speakers, see *English as a Second Language Program* following this section.

Scientific and Technical Writing Minor

Requirements for the technical writing minor are listed under that title later in this catalog.

Notes:

1. Take English 200 as early as you can if you are planning to complete any of these majors or minors.
2. Sophomores may take 300 level courses with approval of the department chair. English majors may take 200 level courses as second semester freshmen.
3. English 345, 375, and 381 count toward the English major/minor and the writing minor ONLY for those seeking teacher certification, or for those who need them as collateral requirements in other departments.

4. English 274 and 275 will count for the English major/minor for teacher certification ONLY if you need them as collateral requirements in another area such as elementary education.

English Assessment and Placement Procedure

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

Academic Standards

1. Anyone may declare a major/minor in English or a minor in writing, scientific and technical writing, or English for elementary education. To be approved for graduation you need to have a cumulative grade point average of 2.00 (2.75 to student teach), regardless of any declaration of academic bankruptcy.
2. You must have consent of the department chair before you will be allowed to repeat grades of D in English 101, 102, and 150, as well as English courses numbered 200 and above in which you received passing grades.
3. English courses are open, subject to availability, to students who are not declared majors or minors.

Credit-by-Exam Policy

If you wish to obtain credit-by-exam for any English general degree requirement course other than 101, contact the English Department chair who will select the appropriate faculty member who most recently taught the course. The faculty member 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 open to English majors in the second semester of their freshman year.

ENGL 101. Freshman English. 3 cr. Critical reading, logical thinking, and effective writing. Write frequently in and out of class, using specific rhetorical strategies for a variety of purposes and audiences. Prereq: Satisfactory placement test score. GDR:ENGL

ENGL 102. Freshman English. 3 cr. Analytical reading and writing and the methods of inquiry common to various academic disciplines. Write frequently in and out of class, using suitable sources of information and appropriate methods of documentation. Prereq: 101 or equivalent. GDR:ENGL

ENGL 103. The Myth of ... 1-3 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 only 3 cr of 103/203/303 toward major or minor. GDR:HU2

ENGL 106. Reading Fiction. 1-3 cr. An opportunity to read, discuss, and evaluate outstanding works of fiction. GDR:HU2

ENGL 108. Reading Drama. 1-3 cr. Oral reading and discussion of one play a week from dramatic literature. The class will choose the plays. May take for credit twice: once as 108 and once as 308. GDR:HU2

ENGL 142. Basic English Grammar. 3 cr. Practice in identifying and using the structural features of written and spoken standard English. Does not count toward the English major or minor.

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. An individualized program for writing improvement based on student needs and personal objectives, taught in conjunction with the Writing Laboratory. May repeat twice, for max of 3 cr 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 *203. The Myth of ... 1-3 cr. Topic will be announced. See 103. GDR:HU2

ENGL *211. English Literature (British). 3 cr. Emphasis on major writers from Beowulf through pre-Romantics, stressing insight into their works. GDR:HU2

ENGL *212. English Literature (British). 3 cr. Emphasis on major writers from the Romantics to the present, stressing insight into their works. GDR:HU2

ENGL *213. American Literature. 3 cr. Emphasis on major writers from Emerson through Twain, stressing insight into their works. GDR:HU2

ENGL *214. American Literature. 3 cr. Emphasis on major writers from James to the present, stressing insight into their works. GDR:HU2

ENGL *240. Introduction to Linguistics. 3 cr. Fundamental concepts and methods of the scientific study of languages in their structural, historical, and geographical aspects.

ENGL *250. Intermediate Composition. 3 cr. Practice in exploratory, expository, and persuasive discourse. Prereq: Successful completion of freshman English, or cons chair.

ENGL *251. Business Writing. 3 cr. Practice in writing business letters, memos, proposals, reports and resumes, as well as practice reading business-related materials. Prereq: Successful completion of freshman English, or cons chair.

ENGL *253. Introduction to Creative Writing. 1-3 cr. Training and practice for the beginning writer in various forms of poetry and fiction; class discussion of student work.

ENGL *254. Introduction to Scientific and Technical Writing. 3 cr. Introduction to technical correspondence and editing, advertising copywriting, science writing, instruction writing, static and process description, and scientific and technical reports.

ENGL *257. Independent Writing. 1 cr, pass/fail. Same as 157.

ENGL 260. Computer Aids for English Studies. 1 cr. Introduction to uses of computer software in the study of English language and literature. 4 wk module for English majors or minors.

ENGL *274. Literature for Early Childhood. 3 cr. Emphasis on the reading, selection, and presentation of materials suitable for children, preschool through grade 3. (See note 4 above.)

ENGL *275. Children's Literature. 3 cr. Reading, selection, and presentation of materials suitable for elementary school readers. (See note 4 above.)

ENGL *280(MNS). American Indian Literature. 1-3 cr. Literature about the American Indian from oral and written materials by Native American authors and other American writers. GDR:HU2

ENGL *281(INW). African Literature. 3 cr. Survey of literature from across the continent in a variety of forms. GDR:HU2

ENGL *282(MNS). Black Literature. 1-3 cr. A critical study of works by black writers (e.g., Americans, Africans, West Indians). GDR:HU2

ENGL *283. Mythology in Literature. 1-3 cr. The basic myths of creation, the flood, man's fall, the Olympians and their Roman counterparts, and the stories of myth and history which form the basis of the literary expression of Western culture; emphasis on Graeco-

88 English

Roman, Judeo-Christian, and Norse myths, as they appear in selected poetry, novels, and plays. GDR:HU2

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 *288. The Literature of Human Love and Sexuality. 1-3 cr. The 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, and James Joyce. GDR:HU2

ENGL *289. Popular Literature. 1-3 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... 1-3 cr. Topic will be announced. See 103. GDR:HU2

ENGL 308. Reading Drama. 1-3 cr. Same as 108, for students with junior standing. May take for credit twice, once as 108 and once as 308. 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.

ENGL 310. The Modern Short Story. 1-3 cr. Representative short stories of world literature with emphasis on literary structure, form, and theme. GDR:HU2

ENGL 311/511. The English Novel (British). 3 cr. English novels from (a) early 1700s to 1880 including works from Defoe, Fielding, Sterne, Austen, Dickens, and George Eliot; or (b) 1880 to the present including works from Hardy, Joyce, Conrad, Lawrence, Woolf, and Lessing. May take once for each period. GDR:HU2

ENGL 312/512. Modern Drama. 2 or 3 cr. Representative dramas of world literature from Ibsen to the present; emphasis on literary structure, form, and theme. GDR:HU2

ENGL 313/513. The American Novel. 3 cr. American novels from (a) late 1700s to 1900 including works from Hawthorne, Melville, James, and Twain; or (b) 1900 to the present, including works from Wharton, Hemingway, Cather, Faulkner, and Bellow. May take once for each period. GDR:HU2

ENGL 314/514. Modern Poetry. 2 or 3 cr. The study of 20th century poetry beginning with the works of Yeats, Pound, and Eliot. GDR:HU2

ENGL 319. The Novel Since 1850. 3 cr. Representative novels of world literature with emphasis on literary structure, form, and theme, including works from a variety of cultures. GDR:HU2

ENGL 320/520. American Realism and Naturalism. 2-3 cr. Theory and development of realism and naturalism from the 19th century to the present. Prereq: Jr st. GDR:HU2

ENGL 321/521. English Literature to 1485. 3 cr. The development of English poetry and prose, excluding Chaucer, from Anglo-Saxon through late Medieval periods.

ENGL 323/523. British Literature Before 1790, Excluding Drama. (British). 3 cr. Development of poetry and prose fiction from (a) 1485 to 1660 through study of More, Sidney, Marlowe, Spenser, Shakespeare, Donne, and Jonson; or (b) from 1660 to 1790 through study of Dryden, Defoe, Swift, Pope, Sam Johnson, and Goldsmith. May take once for each period.

ENGL 324/524. The Romantic Movement (British). 3 cr. The development of romanticism in English poetry and prose, its theory and creation, including a survey of the pre-Romantic Movement.

ENGL 325/525. Victorian Literature (British). 3 cr. Works which reveal the crisis of the individual in an age torn by conflicting values, with emphasis on major poets and essayists including Tennyson, Browning, Arnold, Carlyle, Newman, and Ruskin.

ENGL 327/527. Victorian Literature in Transition (British). 3 cr. Development of the modern spirit in such writers as Hardy, Conrad, Ford, Shaw, Yeats, and the Aesthetes and Decadents.

ENGL 329/529. The American Renaissance. 3 cr. The American literary renaissance of the mid-19th century with emphasis on the

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. The early plays. GDR:HU2

ENGL 334/534. Shakespeare (British). 3 cr. The tragedies and later plays. GDR:HU2

ENGL 336/536. Milton (British). 3 cr. Milton's poetry and selected prose: the growth of a writer in his historical milieu. GDR:HU2

ENGL 342/542. English Grammars. 3 cr. A survey of the major methods of language analyses which have been applied to English since the 18th century; traditional, structural, and transformation-generative.

ENGL 344/544. History of the English Language. 3 cr. Development of English sounds, spelling, inflection, syntax, vocabulary, and dialects from Old English to the present.

ENGL 345/545. English Language for Teachers. 3 cr. Contemporary approaches to language acquisition, analysis, history, usage, and teaching language arts. (See note 5 above.)

ENGL 346/546. Old English. 3 cr. Introduction to Old English language and literature.

ENGL 349/549. Editing and Publishing. 3 cr. Writing, editing, and preparing materials for publication, including consideration of reader/editor appeal, and ways to market manuscripts.

ENGL 350. Advanced Composition. 1-3 cr. The art of writing nonfiction with attention to voice, audience, and style. Prereq: 250 or cons chair.

ENGL 351. Advanced Business Writing. 3 cr. Examine methods of audience analysis and strategies to shape effective written business communication. Prereq: Cons instr or chair.

ENGL 352. Freelance Writing. 3 cr. Essay writing for personal satisfaction and possible publication; emphasis on most marketable essays, such as the interview/profile, how-to, travel, opinion, humor, familiar essay; survey of likely markets, advice on how to break in, how to prepare and submit the manuscript, cover and query letters, and copyright information. Prereq: Cons instr or chair.

ENGL 353/553. Advanced Creative Writing (Poetry or Fiction). 1-3 cr. Intensive study in writing various forms of poetry or fiction; class discussion of student work. May take max 9 cr with 6 cr. max under one focus. Prereq: 253, cons instr or chair.

ENGL 354/554. Advanced Scientific and Technical Writing. 3 cr. Practice in writing scientific and technical documents such as grant proposals, feasibility reports, and articles with a focus on your area of specialization. Prereq: 254 or-cons instr.

ENGL 355/555. Methods of Teaching Composition (Elementary and Secondary). 2 or 3 cr. Teaching writing as a composing process; theory and practice for all levels and subjects. Does not count toward the English major or minor.

ENGL 356/556. Methods of Teaching Literature (Elementary and Secondary). 2 or 3 credits. Teaching literature as an exploratory process, beginning with reader response; theory and practice for all levels. Does not count toward the English major or minor.

ENGL 357. Independent Writing. 1 cr, pass/fail. See 157.

ENGL 358. 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 a small group of authors whose writing reflects the concerns of geographic areas. Subtitle will designate area. May repeat with different subtitles.

ENGL 361. World Literature. 3 cr. Representative selections of world literature from the earliest times to the 17th century. GDR:HU2

ENGL 362. World Literature. 3 cr. World literature from the 17th century to the present. GDR:HU2

ENGL 363. Nature Literature. 3 cr. Writings which emphasize the relationship of man to nature; visits with nature writers, and field trips

to correlate readings with first-hand observation of the natural world. Meets requirements of environmental studies minor. GDR:HU2

ENGL 364/564. Canadian Literature. 3 cr. Major writers, stressing contemporary writers such as Margaret Atwood, Alice Munro, Robertson Davies, Sinclair Ross. GDR:HU2

ENGL 365/565. Science Literature. 3 cr. Examine development of writing for and about science and technology from 1660 to the present. Impact of development of two modes of scientific writing on contemporary society—one for scientists and one for general readership. Prereq: Jr st. GDR:HU2

ENGL 366/566. English Drama to Shaw (British). 3 cr. Major plays and trends in drama from medieval origins to modern period, such as *Everyman*, *Dr. Faustus*, *Volpone*, *The Duchess of Malfi*, *Tis a Pity She's a Whore*, *Beggar's Opera*, *The Importance of Being Earnest*. GDR:HU2

ENGL 374(NW). Postcolonial Literature in English. 3 cr. Works in English by writers from postcolonial nations, e.g., India, Pakistan, Australia, New Zealand, or countries of the West Indies. GDR:HU2

ENGL 375/575. Literature for Adolescents. 3 cr. Select and read literature suitable for adolescents. (See note 5 above.)

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 emphasis on experimental narrative techniques and/or thematic relationships. GDR:HU2

ENGL 379/579. Rhetorical Theory. 3 cr. History of ideas regarding the effective use of language, emphasizing classic texts by Aristotle, Cicero, and Quintilian, and their influence on modern thought. Prereq: Jr st or cons dept chair.

ENGL 380/580. Literary Theory. 2 or 3 cr. Critical approaches to literary study based on ancient and modern theories.

ENGL 381/581. Reading for the English Teacher. 3 cr. Application of current reading theory to practice in the English classroom. Emphasis on reading process, response-based teaching, and strategic learning. (See note 5 above.)

ENGL 382/582. Ethnic Literature of the United States. 3 cr. 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. 1-3 cr. Works of several writers demonstrating a theme or related themes. Subtitle will designate area. May repeat for credit with different subtitles. GDR:HU2

ENGL 385(MNS). Masters of Literature. 2 or 3 cr. Close, critical study of one or more masters of literature. Subtitle will designate author(s). May repeat with different subtitle.

ENGL 390. Independent Reading. 1 cr. Individualized program for reading literature selected by the student and teacher; the student will read, analyze, and discuss the literature in conference or in groups. May repeat for 3 cr max; does not count toward English major/minor.

ENGL 391. Frankenstein Revisited. 3 cr. The literary, philosophical, and scientific foundations of genetic engineering. Does not count toward the English major or minor.

ENGL 392. Literature and Ecology. 3 cr. A study of American and English literary texts to discover attitudes toward various environments in literature, to analyze historic and current environmental issues, and to describe the role of literature in ecology. GDR:EL

ENGL 394. Tutor Practicum in Reading and Writing. 3 cr. Theory and practice of individualized instruction in reading and writing. 3 hrs classroom instruction, 3 hrs tutoring in the Tutoring-Learning Center per wk. Prereq: Cons instr.

ENGL 395/595. Workshop in English. 1-3 cr. Study of contemporary scholarship in English. Subtitle will designate area. May repeat for credit with different subtitles. Prereq: Cons chair.

ENGL 397. Practicum. 1-3 cr. Students may, with cons instr and chair, arrange for supervised practical experience as tutors, teachers'

aides, etc. Approximately 45 hrs of practice required for each credit. Subtitles will identify type of practicum.

ENGL 399. Special Work. 1-3 cr. Upperclass students may arrange for independent study with cons chair. Credit will be based on the scope of the project. Prereq: 3.00 GPA in English courses.

ENGL 497. Senior Seminar in English Education. 1 cr. Develop, refine, and write a philosophy of teaching English in secondary school. Prereq: Be within two semesters of student teaching and con reg in 355, 356, and English Education 396.

ENGL 498. Writing Internship. 1-6 cr. Supervised writing experience in the field; evaluation by faculty member in consultation with field supervisor on the basis of a culminating report and samples of the writing done; credit to be determined by the faculty in charge; open only to English majors and minors, writing minors, and technical writing minors. Prereq: Sr st and cons chair. Max of 3 credits may apply to English major/writing minor.

ENGL 712. Advanced English Methods. 3 cr. Problems in teaching literature, writing, and language arts: course and curriculum design, trends and issues in teaching English, and adaptation of theory and research to classroom practice. Open to elementary language arts and secondary English teachers and candidates for certification.

ENGL 715. Twentieth Century Literature. 3 cr. Subtitle will designate focus.

ENGL 716. The English Novel. 3 cr. Subtitle will designate focus.

ENGL 719. The American Novel. 3 cr. Subtitle will designate focus.

ENGL 740. Language in Society. 3 cr. Historical growth and continuing development of the English language and its uses in society, including a study of current usage and principles for evaluating language in use.

ENGL 745. Censorship. 3 cr. Examination of the history of censorship in schools and society, the major issues of censorship in the classroom, and ways for teachers, administrators, librarians, and citizens to deal with censorship problems.

ENGL 750. Writing Nonfiction. 3 cr. Read modern essays to learn about different methods and styles; critique personal writings.

ENGL 752. Workshop in Fiction. 3 cr. Advanced study in fiction techniques; discuss and critique class members' work. Prereq: Cons instr or chair.

ENGL 753. Workshop in Poetry. 3 cr. Advanced study in poetry techniques; discuss and critique class members' poems. Prereq: Cons instr or chair.

ENGL 755. Teaching English (Literature, Composition, Creative Writing). 3 cr. Research and discuss problems and techniques of teaching English. May take once under each subtitle.

ENGL 756. Measuring Growth in English. 3 cr. Theory and practice of evaluating writing ability and literary response; issues in testing and evaluation for English teachers.

ENGL 757. Writing Centers: Theory and Practice. 3 cr. Establishing and administering elementary and secondary school writing centers, training peer tutors, and teaching by the conference method.

ENGL 760. Literature and the Human Experience. 3 cr. Literature as an instrument for man's understanding of his own experience.

ENGL 761. Seminar in English Literature. 3 cr. Subtitle will designate focus.

ENGL 762. Seminar in American Literature. 3 cr. Subtitle will designate focus.

ENGL 772. Poetry: Forms, Functions, and Meanings. 3 cr. Forms and structures of poetry in English and ways that poems convey meanings.

ENGL 781. Reading in the English Classroom. 3 cr. Critical review of psycholinguistic research with application to methods, selection of materials, and problems with teaching reading in the English curriculum, elementary through secondary.

ENGL 785. Selected Literary Master(s). 2 or 3 cr. Subtitle will designate the master(s).

ENGL 786. Selected Literary Topic(s). 2 or 3 cr. Subtitle will designate topic.

90 English as a Second Language

ENGL 795. Project. 1 cr. In-depth examination and creative application of research and theory to a specific teaching problem such as curriculum design, teacher training, or revising district programs.

ENGL 796. Independent Study. 1-3 cr. Study supervised by an instructor.

ENGL 798. Portfolio. 2-4 cr. Selection and analysis of professional presentations, publications, accepted manuscripts, in-services, and similar activities. Prereq: Consent of Portfolio Committee.

ENGL 799. Thesis. 2-6 cr.

Courses in English Education

E ED 396. English Education Practicum. 1 cr. Supervised observation and experience in secondary schools. Forty-five hrs required for all English education majors. Prereq: Con reg in 355 and 356.

E ED 398. Student Teaching In English. 16 cr. Observation and teaching in the secondary school classroom under the guidance of cooperating teachers and university faculty.

E ED 498. Intern Teaching. Variable cr. Structured field experiences in approved school programs. Interns are certified by the DPI and are employed under contract with schools to design, deliver, and assess instructional programs in grades n-k-12. Prereq: Completion of all methods courses and 75% of content courses in approp major. Con reg in approp section of Educ 400 may be required.

ENGLISH AS A SECOND LANGUAGE (minor)

For the ESL certifiable minor and the ESL teacher add-on certification, see *Foreign Languages*. For intensive ESL courses for non-native speakers, see below.

English as a Second Language Program (Division of Communication)

Jim Kelim, Director
Room 225, Communication Arts Center
Phone: 715-346-2838
E-mail: jkelim@uwsp.edu

The English as a Second Language Program provides intensive English classes for international students who want to attend an American university but whose English skills are not yet ready to compete in an academic setting. Full-time students attend 20 class hours per week at levels that are appropriate for their skills. The classes emphasize the development of academic English skills in the areas of reading, writing, listening/notetaking, and speaking. As conditionally accepted students complete upper-level ESL courses, they may begin to enroll in university courses. Upon completion of the entire ESL program, conditionally accepted students may enroll full time in university courses.

Courses in English as a Second Language

ESL 061. Listening/Notetaking I. 2 cr. Develop ability to follow short spoken exchanges, directions, and presentations found in daily life, gain basic skills in notetaking, and gain experience in talking and writing about spoken material. Prereq: Placement.

ESL 062. Listening/Notetaking II. 2 cr. Develop ability to gather information from longer spoken sources such as news programs, educational shows, interviews, and radio commentaries, improve notetaking strategies, and develop ability to discuss and write clearly about spoken information. Prereq: 061 or placement.

ESL 063. Listening/Notetaking III. 2 cr. Develop ability to follow live lectures and taped presentations of academic topics and current events, refine notetaking strategies, discuss and synthesize written and

spoken information, and write well-developed essays about the information. Prereq: 062 or placement.

ESL 071. Oral Communication I. 3 cr. Learn English conversational strategies, functions, and vocabulary applicable to basic life skills, develop ability to carry on casual conversations, and practice American pronunciation. Prereq: Placement.

ESL 072. Oral Communication II. 3 cr. Learn formal and informal conversational strategies and functions applicable to a variety of interpersonal situations, develop ability to carry on in-depth conversations on challenging topics, and learn strategies for small-group interaction. Prereq: 071 or placement.

ESL 073. Oral Communication III. 3 cr. Refine ability to interact in formal and large-group situations, develop ability to discuss current events and academic topics, and learn basic strategies for speaking in front of a group. Prereq: 072 or placement.

ESL 081. Reading I. 5 cr. Learn basic reading strategies, develop skills in writing about and discussing short informative and general interest readings, and learn basic strategies for understanding and learning new vocabulary. Prereq: Placement.

ESL 082. Reading II. 5 cr. Learn reading strategies for comprehending longer and more academic readings from texts and magazines, increase ability to write in response to readings and to discuss information in texts, gain greater exposure to academic vocabulary, and develop ability to incorporate new vocabulary in writing and discussions. Prereq: 081 or placement.

ESL 083. Reading III. 5 cr. Learn advanced reading strategies for textbook selections and academic articles, use discussion and writing skills to fully comprehend and analyze readings, demonstrate comprehension both verbally and in writing, and expand active academic vocabulary. Prereq: 082 or placement.

ESL 091. Writing/Grammar I. 6 cr. Develop ability to write on personal or subjective topics, learn editing strategies, and develop control of basic grammar and mechanics. Prereq: Placement.

ESL 092. Writing/Grammar II. 6 cr. Move from personal to objective writing in response to a source, expand editing strategies, and improve accuracy over a wider range of grammatical structures. Prereq: 091 or placement.

ESL 093. Writing/Grammar III. 6 cr. Develop ability to draw information from and write about multiple sources, learn basic library skills, and develop independent editing strategies and effective use of grammar. Prereq: 092 or placement.

ENVIRONMENTAL COMMUNICATION

See *Natural Resources*.

ENVIRONMENTAL EDUCATION/ INTERPRETATION

See *Natural Resources* for the minor and the resource management option.

ENVIRONMENTAL LAW/ ENFORCEMENT

See *Natural Resources*.

Environmental Studies

(College of Letters and Science)

Wm. John Coletta
 Room 433, Collins Classroom Center
 Phone: 715-346-4749
 E-mail: wcoletta@uwsp.edu AND

Sarah Elkind
 Room 417, College of Professional Studies
 Phone: 715-346-3489
 E-mail: selkind@uwsp.edu

Environmental Studies Minor

Consists of 24 credits:

1. **Core courses**, 6 credits:
 - a. Three credits from Biology 304, 305 (prereqs may count as electives), Natural Resources 150, 395, 474 or 478.
 - b. Three credits from English 363, 365, 392; OR History 366, 394; OR Philosophy 380.
2. **Required emphasis**: 9 credits from the following in any **ONE** discipline. Note that all asterisk (*) courses may only be used for the environmental studies minor with approval of plans by the environmental studies coordinator **BEFORE** the semester and review of a portfolio of written work at the end of the semester.
 - a. Anthropology 342, 350, 373*, 395*, 499*.
 - b. Biology 304, 305, 308, 355, 405, 399*, 490*, 498*, 499*; (1 cr courses) 306, 384, 385, 386, 490*.
 - c. Economics 342, 299*, 315*, 374*, 490*, 495*.
 - d. English 358, 363, 365, 392, 383*, 390*, 399*, 498*.
 - e. Geography 302, 340, 344, 370, 372*, 373*, 391*, 3393*, 395*, 399*, 490*.
 - f. Geology 330, 370, 383, 475, 479, 295*, 391*, 393*, 395*, 480*.
 - g. History 366, 368, 394, 290*, 399*, 490*, 495*.
 - h. Philosophy 380, 381, 395*, 399*, 490*, 499*.
 - i. Political Science 304, 308*, 314*, 320*, 376*, 396*, 455*, 490*, 498*, 499*.
 - j. Sociology 355, 356, 360, 312*, 327*, 357*, 373*, 395*, 497*.
3. **Electives**: 9 additional credits from any courses listed above or Art 346, Education 350, Natural Resources 150, 300, 395, 475, 478. Note that Chemistry 101, 105 and/or 106 may count as electives with prior permission of the environmental studies coordinator.

ETHNIC STUDIES

See **History** for the concentration. See **Sociology** for the native American and rural social work minor.

EXCEPTIONAL EDUCATION

See **Education**.

Experiential Learning Program

Sharon Knopf, Coordinator
 Room 103, Student Services Center
 Phone: 715-346-3361
 E-mail: sknopf@uwsp.edu

The Experiential Learning Program allows you to receive credit for college-level learning obtained outside the traditional academic setting. Credit is not granted simply for experience, but rather for the learning obtained from the experience. The learning is judged to be equivalent to that which would be gained through UW-Stevens Point coursework.

Prior learning may be evaluated by techniques such as an interview, demonstration, portfolio assessment, or other methods where appropriate for specific courses, College Level Examination Program (CLEP) examinations and challenge examinations offered by various departments.

After you have been formally admitted to the university you can request an evaluation of experiential learning for credit. Please follow this procedure:

1. Contact the Experiential Learning Coordinator (ELC) who will help you identify the competencies you have acquired, and decide which credits might be sought by prior learning assessments and/or by more traditional means. Have transcripts that certify formal educational experience sent to the Admissions Office.
2. After you and the ELC have determined which credits are to be sought, you will need to consult with the chair(s) of the involved department(s) concerning the preparation and documentation of the necessary materials relating to your adult learning experiences. You will want to consult with your academic adviser and may consult with the ELC as you develop the materials requested by the involved department(s) concerning the competencies you believe you have already acquired.
3. Following preparation of the portfolio(s), take the materials to the chair(s) of the involved department(s). This begins the evaluation phase of the process. The chair may assign a faculty member and/or a committee to assess your portfolio.
4. After the evaluation is complete, a written recommendation for or against the award of credit, the amount of credit, and the level of credit, will be submitted to the chair of the appropriate department for approval or disapproval. The chair will forward the material and final recommendation to the ELC.
5. The ELC will notify you and the Records Office of the award of credit, which will be entered into your permanent record. A fee of \$50 for 12 or fewer credits, or \$100 for 13 or more credits will be assessed.

Evaluation of prior learning takes time. Please do not assume that the evaluation can be completed during the semester of application. It may take several weeks or even months.

FILM

See **Communication** for the mass communication emphasis.

Fine Arts

FA 116. The Arts: Exploration, Appreciation, and Integration. 3 cr. Knowledge and perspective for integrating the arts into the K-12 classroom. Focuses on contemporary and historical "performance pieces" encompassing many art forms. Coursework includes journals, notebook research assignments, and collaborative and small group art/music/theatre/dance curriculum projects. Also, ideas on the arts' role in society for the child as well as for the student as consumer.

FISHERIES

See *Natural Resources-Water Resources*.

FOREIGN LANGUAGE IN THE ELEMENTARY SCHOOL

See *Foreign Languages*.

Foreign Languages (College of Letters and Science)

Jan Seiler, Chair

Room 490, Collins Classroom Center

Phone: 715-346-3036

E-mail: jseiler@uwsp.edu

Faculty: R Barker, D Breining, R Craig-Odders, L Crawford, I Cuadra, B David, H Johnson, S Lewis, M Parker, R Price, R Ruppel, J Seiler, M Seiler, D Snyder.

The Department of Foreign Languages offers courses in French, German, Japanese, Russian, and Spanish, and teaching English as a second language.

Placement/Advanced Standing

When you enter UW-Stevens Point as a freshman or transfer student and elect to take courses in French, German, Russian, or Spanish, you are required to take the UW System placement examination. It works out best if you make arrangements with your guidance office to take this exam before your assigned registration day. After you take the exam you will be placed in the appropriate foreign language course according to the following rules.

1. On the basis of the exam the department will grant up to 16 credits for foreign language courses you completed in high school. Then you must complete the course into which you are placed with a grade of B- or better to receive the retroactive credits.
2. The department may also grant credit for language proficiency you have gained through nonacademic means. After you take the placement exam you must complete the course into which you are placed with a grade of B- or better to receive credit for prerequisite courses which you have not taken formally.

Please realize that the department will not recommend granting credit for high school work or other language proficiency until AFTER you have completed a foreign language course on this campus.

There may be other situations where students who demonstrate proficiency in a 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 courses at the 300/400 level, including:

1. 313, 314, 317, 320, 340.
2. One literature course beyond 340.
3. One of 381, 382, or 383.
4. Two electives chosen from literature or culture courses.
5. Foreign Language Education 333.
6. Foreign Language Education 398 or 498 to be taken concurrently with Foreign Language Education 400.

Foreign Language Major with a Concentration in Culture Studies

Consists of 30 credits: 15 credits of language and literature at the 300 and 400 levels, including 313, 314, 317, and 340; and 15 credits of culture studies, including 6 credits of 381, (or, in Spanish, 382 or 383), and 9 credits in coursework outside the department, selected with the approval of the adviser.

Foreign Language Major with Concentration in Culture Studies for Teacher Certification

Consists of 36 credits:

1. Language and literature, 18 credits at the 300/400 level, including 313, 314, 317, 320, 340.
2. One additional literature course beyond 340.
3. Culture studies, 15 credits including 6 credits from 381, 382, or 383.
4. Collateral courses, 9 credits from outside the department selected with the approval of your adviser.
5. Foreign Language Education 333.
6. Foreign Language Education 398 or 498 to be taken concurrently with Foreign Language Education 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. **Russian:** Consists of 15 credits in courses at the 300/400 level, including 315, 316, 360 or 370, and 381.
4. **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 Elementary (1-6) Teacher Certification

If you are an elementary education major and do not intend to be certified to teach a foreign language in middle school, you may complete the regular 15-credit academic minor above instead of the minor for teacher certification.

Foreign Language Minor for Teacher Certification

Consists of 21 credits in courses at the 300/400 level:

1. 313, 314, 317, 320, 340.
2. One of 381, 382, or 383.
3. Foreign Language Education 333.
4. Foreign Language Education 398 or 498 to be taken concurrently with Foreign Language Education 400.

Foreign Language Concentration in the Business Administration Major (French, German, Russian, 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.

English as a Second Language Minor for Teacher Certification

Enrollment caps are in effect for students seeking ESL certification. Applications for admission are processed February 22 and September 22. Contact the Department of Foreign Languages for more information on admission policies.

Consists of 24-26 credits.

1. Prerequisites.
 - a. Demonstrated proficiency in English.
 - b. Two semesters of college level foreign language (8 credits) or equivalent high school experience demonstrated by test-out.
2. Required.
 - a. Three credits from English 342, 344, 345.
 - b. Communicative Disorders 266 or English 240.
 - c. Three credits from Anthropology 110, 280, French 381, History 130, Sociology 270, Spanish 382.
 - d. In consultation with your adviser, choose 7-9 credits as follows:
 - 1) One course from English 200, 274, 275, 375.
 - 2) For K-9 certification take Education 309, 310.
 - 3) For 6-12 certification take two courses from English 355, 356, 381 or 386.
 - e. Foreign Language Education 344; and 398 or 498. You may take Foreign Language Education 397 when appropriate.

English as a Second Language Minor without Certification

Consists of 24-26 credits.

1. Prerequisites.
 - a. Demonstrated proficiency in English.
 - b. Two semesters of college-level foreign language (8 credits) or equivalent high school experience demonstrated by test-out.
2. Required.
 - a. Three credits from English 342 or 344.
 - b. Three credits from Communicative Disorders 266, English 240, or Anthropology 280.
 - c. In consultation with your ESL adviser, choose one course from Anthropology 110, 355; French 381; German 381; History 108, 120, 216, 220, 253, 254, 340, 346, 348, 350, 352; International Studies 101; Religious Studies 100; Sociology 343; Spanish 381, 383.

- d. One course from English 200, 211, 212, 213, 214, 275, 375, or Comparative Lit 101, 102.
- e. Foreign Language Education 333 or 344 (to be chosen in consultation with your ESL adviser).
- f. Foreign Language Education 397, 1-3 credits.

Academic Standards (Teaching)

Admission caps are in effect for students seeking teacher certification in foreign languages. Applications for admission are processed February 22 and September 22. Contact the Department of Foreign Languages for more information on admission policies.

To be eligible to student teach in foreign languages, you must complete the teaching major or minor with an overall grade point average of 3.0 in all college level courses taken in the language you plan to teach, regardless of declaration of academic bankruptcy, and a minimum grade of B in the foreign language methods course (FLED 333). In addition you must fulfill the following special requirements.

1. **Residence:** You must complete an appropriate period of residence in a country where the language is spoken, or participate in an alternative language immersion experience which must be approved by the department. All teacher candidates in foreign language should participate in a language-based semester study abroad program, such as those offered by UWSP in France, Germany, and Spain, or a junior year abroad. With prior approval of the department you may substitute alternative experiences such as immersion programs or summer study abroad.
2. **Oral and Written Proficiency:** To be eligible to student teach a foreign language at elementary, middle, or secondary level, you must pass oral and written proficiency tests given by the department before your application to student teach will be approved.
3. **Student Teaching:** The chair of the Department of Foreign Languages and the director of the Office of Field Experiences approve student teaching programs. You register for Foreign Language Education 398 (1-16 credits), Foreign Language Education 400 (1-2 credits), and receive an assignment at the grade level for which you are seeking certification.
4. **Professional Education Program:** The requirements for the Professional Education Program are listed in the *Education* section earlier in this catalog.

Academic Standards (Nonteaching)

To graduate with a nonteaching major or minor in the Department of Foreign Languages, you must have a 2.0 cumulative GPA in all courses for the major/minor, including transfer courses, regardless of any declaration of academic bankruptcy. To be certified to teach a foreign language, you must complete the teaching major or minor with a 3.0 cumulative GPA in all college level courses taken in the language you plan to teach, regardless of academic bankruptcy. See the *More Academic Information* section of this catalog for the policy on repeating courses.

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.

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Test-Out and Credit-by-Exam Policy for GDR Courses

You may also test-out of or receive credit-by-exam for foreign language courses beyond 212 which fulfill the humanities category of the general degree requirements. To test-out, you must pass with a grade of B- or higher both written and oral examinations in the foreign language on the subject matter of the course. For credit-by-exam, you must 1) pass both written and oral examinations in the foreign language with a grade of B or higher and 2) submit a paper on an assigned topic, for which you receive a grade of B or higher. Arrange for examinations on an individual basis with the department chair.

Courses in Foreign Language (General Courses)

See also the listing under *Courses in Foreign Language Education*, below.

FLC 010. English as a Foreign Language. 0 cr. A two-semester, noncredit course in English for students who do not have adequate facility in English for university work.

FLC 100. Basic Conversation Skills. 1-3 cr. Subtitle will indicate the language. Develop basic conversation skills in everyday practical contexts. May earn max of 3 credits under each subtitle. Does not count toward foreign language general degree requirements, major or minor.

FLC 181. Culture and Civilization. 1-3 cr. For students in B.S. programs where foreign cultures have an important impact, such as fashion, hospitality, management, or cuisine. Subtitle will designate focus. May repeat for credit with different subtitle. Does not count toward foreign language majors. GDR: HU4

FLC 199/299. Independent Study. 1-4 cr each. Individual study of foreign language under faculty supervision. Prereq: Cons chair.

FLC 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 yr foreign language study.

FLC 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 prior cons chair. GDR:HU4

FLC 399/499. Independent Study. 1-4 cr each. Individual study of foreign language under faculty supervision. Prereq: Cons chair.

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

For more course listings in foreign language, see the *Latent Course List* at the end of this section.

Courses in Foreign Language Education

FLED 333/533. Teaching Second Languages. 3 cr. Second language acquisition theories, methods, techniques, planning, organization, assessment, and field experiences in teaching foreign languages in elementary, middle, and secondary schools. Prereq: Jr st and admission to Professional Education Program, or cons instr.

FLED 344/544. Teaching English as a Second Language. 3 cr. Theories of second language acquisition; methods, techniques, planning, organization, assessment, and field experiences in teaching ESL. Prereq: Jr st and admission to Professional Education Program, 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 hours of practice required for each credit. Subtitles will identify the type of practicum.

FLED 398. Student Teaching in Foreign Language. 1-16 cr; pass/fail. Observation and teaching in actual secondary school classrooms under the guidance of cooperating teachers and university faculty. Subtitle will indicate area of 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 the foreign language education or English as a second language curriculum, or teaching experience.

Courses in Chinese

For course listings in Chinese, see the *Latent Course List* at the end of this section.

Courses in French

FREN 101. First Year French. 4 cr. For students with no previous training in the language, or by placement exam. GDR:FL BA BM/BFA

FREN 102. First Year French. 4 cr. Continuation of 101. Prereq: 101, or by placement exam. GDR:FL BA BM/BFA

FREN 211. Second Year French. 4 cr. Intensive grammar review in reading and speaking. Prereq: 102, or by placement exam.

FREN 212. Second Year French. 4 cr. Continuation of 211. Prereq: 211, or by placement exam.

FREN 313. Intermediate Conversation. 3 cr. Prereq: 212, or by placement exam.

FREN 314. Intermediate Composition. 3 cr. Prereq: 212, or by placement exam.

FREN 317. Advanced Conversation and Composition. 3 cr. Subtitle will designate focus. May repeat once for credit with different subtitle. Prereq: 313 and 314, or cons chair.

FREN 318. French for the Professions. 3 cr. General knowledge of writing and reading material associated with the professions in French, emphasizing cultural differences between the U.S. and other countries. Example: writing business letters and preparing business-related documents. Subtitle will designate focus. May repeat for credit once with different subtitle. Prereq: 313 and 314, or cons instr.

FREN 320. Phonetics and Diction. 3 cr. Prereq: 212, or by placement exam.

FREN 340. Introduction to French Literature. 3 cr. Intensive reading in French literature, methods of literary analysis of various genres; introduction to fundamental techniques of literary criticism. Subtitle will designate area. May repeat for credit with different subtitles. Prereq: 313 and 314. GDR:HU2

FREN 341. Survey of French Literature. 3 cr. French literature to 1800. Prereq: 340 or cons instr. GDR:HU2

FREN 342/542. Survey of French Literature. 3 cr. 19th century French literature to the present. Prereq: 340 or cons instr. GDR:HU2

FREN 350. 17th Century Literature. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr. GDR:HU2

FREN 355. 18th Century Literature. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr. GDR:HU2

FREN 360. 19th Century Literature. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr. GDR:HU2

FREN 370/570. 20th Century Literature. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr. GDR:HU2

FREN 381/581. French Culture and Civilization. 3 cr. Subtitle will indicate focus. May repeat for credit with different subtitles. Prereq: 340 or cons instr. GDR:HU4

FREN 493/693. Specialized Studies in French Literature. 1-3 cr. Subtitle will designate focus such as: literary genre or group, recurrent literary theme, single author, comparison of two authors. Prereq: 300-level French literature course, or cons instr. GDR:HU2

FREN 499. Independent Study. 1-4 cr. Individual study under faculty supervision. Prereq: Cons chair.

For more course listings in French, see the *Latent Course List* at the end of this section.

Courses in German

GERM 101. First Year German. 4 cr. For students with no previous training in the language, or by placement exam. GDR:FL BA BM/BFA

GERM 102. First Year German. 4 cr. Continuation of 101. Prereq: 101, or by placement exam. GDR:FL BA BM/BFA

GERM 211. Second Year German. 4 cr. Intensive grammar review. Prereq: 102, or by placement exam.

GERM 212. Second Year German. 4 cr. Continuation of 211. Prereq: 211, or by placement exam.

GERM 313. Intermediate Conversation. 3 cr. Prereq: 212, or by placement exam.

GERM 314. Intermediate Composition. 3 cr. Prereq: 212, or by placement exam.

GERM 317. Advanced Conversation and Composition. 3 cr. Subtitle will designate focus. May repeat once for credit with different subtitle. Prereq: 313 and 314, or cons chair.

GERM 318. German for the Professions. 3 cr. General knowledge of writing and reading material associated with the professions in German, emphasizing cultural differences between the U.S. and other countries. Example: writing business letters and preparing business-related documents. Subtitle will designate focus. May repeat for credit once with different subtitle. Prereq: 313 and 314, or cons instr.

GERM 320. Phonetics and Diction. 3 cr. Prereq: 212, or by placement exam.

GERM 340. Introduction to German Literature. 3 cr. Intensive reading, methods of literary analysis of various genres; introduction to fundamental techniques of literary criticism. Subtitle will designate area. May repeat ONCE for credit with a different subtitle. Prereq: 313 and 314. GDR:HU2

GERM 355. 18th Century Literature. 3 cr. Selected readings. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr. GDR:HU2

GERM 360. 19th Century Literature. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr. GDR:HU2

GERM 370/570. 20th Century Literature. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr. GDR:HU2

GERM 381/581. German Culture and Civilization. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr. GDR:HU4

GERM 493/693. Specialized Studies in German Literature. 1-3 cr. Subtitle will designate focus such as: literary genre or group, recurrent literary theme, single author, comparison of two authors. Prereq: One 300 level German literature course and cons instr. GDR:HU2

GERM 499. Independent Study. 1-4 cr. Individual study under faculty supervision. Prereq: Cons chair.

For more course listings in German, see the *Latent Course List* at the end of this section.

Courses in Greek

For course listings in Greek, see the *Latent Course List* at the end of this section.

Courses in Japanese

JAPN 101(NW). First Year Japanese. 4 cr. For students with no previous training in the language or by placement exam. 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.

Courses in Menominee

For course listings in Menominee, see the *Latent Course List* at the end of this section.

Courses in Polish

For course listings in Polish, see the *Latent Course List* at the end of this section.

Courses in Russian

RUSS 101(NW). First Year Russian. 4 cr. For students with no previous training in the language. GDR:FL BA BM/BFA

RUSS 102(NW). First Year Russian. 4 cr. Continuation of 101. Prereq: 101, or by placement exam. GDR:FL BA BM/BFA

RUSS 211(NW). Second Year Russian. 4 cr. Intensive grammar review, practice in reading and speaking Russian. Prereq: 102, or by placement exam.

RUSS 215(NW) Continuing Russian. 4 cr. Intermediate-level grammatical structures for reading; the roots of Russian; verbs of motion. Subtitle will designate area. Prereq: 211.

RUSS 216(NW). Continuing Russian. 4 cr. Intermediate-level study of practical situations in Russian. The forms and culture of business and other language etiquette in Russian. Subtitle will designate area. Prereq: 211.

RUSS 315(NW). Continuing Russian. 4 cr. Advanced intermediate work. Content is varied so that this course, as well as 215, can be taken by continuing students. Subtitle will designate area. Prereq: 216.

RUSS 316(NW). Continuing Russian. 4 cr. Advanced intermediate work. Content is varied so that this course, as well as 216, can be taken by continuing students. Subtitle will designate area. Prereq: 215.

RUSS 360(NW). 19th Century Literature. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: Cons instr. GDR:HU2

RUSS 370(NW). 20th Century Literature. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 300-level Russian course, or cons instr. GDR:HU2

RUSS 381(NW). Russian Culture and Civilization. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. GDR:HU4

RUSS 493(NW). Specialized Studies in Russian Literature. 1-3 cr. Subtitle will designate focus such as: literary genre or group, recurrent literary theme, single author, comparison of two authors. May be repeated for credit with different subtitle. Prereq: One 300 level Russian course, or cons instr. GDR:HU2

RUSS 499(NW). Independent Study. 1-4 cr. Individual study under faculty supervision. Prereq: Cons chair.

For more course listings in Russian, see the *Latent Course List* at the end of this section.

Courses in Spanish

SPAN 101. First Year Spanish. 4 cr. For students with no previous training in the language, or by placement exam. GDR:FL BA BM/BFA

SPAN 102. First Year Spanish. 4 cr. Continuation of 101. Prereq: 101, or by placement exam. GDR:FL BA BM/BFA

SPAN 211. Second Year Spanish. 4 cr. Intensive grammar review, practice in reading and speaking Spanish. Prereq: 102, or by placement exam.

SPAN 212. Second Year Spanish. 4 cr. Continuation of 211. Prereq: 211, or by placement exam.



SPAN 313. Intermediate Spanish Conversation. 3 cr. Prereq: 212, or by placement exam.

SPAN 314. Intermediate Spanish Composition. 3 cr. Prereq: 212, or by placement exam.

SPAN 317. Advanced Conversation and Composition. 3 cr. Subtitle will designate focus. May repeat once for credit with different subtitle. Prereq: 313 and 314, or cons chair.

SPAN 318. Spanish for the Professions. 3 cr. General knowledge of writing and reading material associated with the professions in Spanish-speaking countries, emphasizing cultural differences between the U.S. and other countries. Example: writing business letters and preparing business-related documents. Subtitle will designate focus. May repeat for credit once with different subtitle. Prereq: 313 and 314, or cons instr.

SPAN 320. Phonetics and Diction. 3 cr. Prereq: 212, or by placement exam.

SPAN 340. Introduction to Literature. 3 cr. Intensive reading, methods of literary analysis of various genres; introduction to fundamental techniques of literary criticism. Subtitle will designate area. May repeat once for credit with a different subtitle. Prereq: 313 and 314. GDR:HU2

SPAN 341. Survey of Spanish Literature. 3 cr. Spanish literature from the earliest works to 1800. Prereq: 340 or cons instr. GDR:HU2

SPAN 342. Survey of Spanish Literature. 3 cr. Spanish literature from 1800 to the present. Prereq: 340 or cons instr. GDR:HU2

SPAN 353. Survey of Spanish American Literature. 3 cr. From chronicles to modernism. Prereq: 340 or cons instr. GDR:HU2

SPAN 354. Survey of Spanish American Literature. 3 cr. From modernism to the present. Prereq: 340 or cons instr. GDR:HU2

SPAN 381. Spanish Culture and Civilization. 3 cr. Subtitle will designate focus. May be repeated for credit with different subtitles. Prereq: 340 or cons instr. GDR:HU4

SPAN 382(MNS). Hispanic Culture and Civilization in the U.S. 3 cr. The historical background, current status, and literary and artistic

works of Mexican-American, Puerto Rican, and Cuban-American residents of the continental United States. Prereq: 340 or cons instr. GDR:HU4

SPAN 383. Spanish American Culture and Civilization. 3 cr. Subtitle will designate focus. May repeat for credit with different subtitle. Prereq: 340 or cons instr.

SPAN 451/651. Cervantes. 3 cr. Don Quixote and other works in the life and times of Miquel de Cervantes. 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. GDR:HU2

SPAN 499. Independent Study. 1-4 cr. Individual study under faculty supervision. Prereq: Cons chair.

For more course listings in Spanish, see the *Latent Course List* at the end of this section.

FOREST RECREATION

See *Natural Resources—Forestry*.

FORESTRY

See *Natural Resources*.

FRENCH

See *Foreign Languages*.

GENERAL DEGREE REQUIREMENTS

See *General Degree Requirements* earlier in this catalog.

GENERAL SCIENCE

See *Natural Science*.

General Studies

(College of Letters and Science)

Nancy LoPatin-Lummis, Coordinator
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General Studies Major (B.A. or B.S.)

Consists of a minimum of 39 credits. Note that prerequisites for some courses may increase the number of credits needed. Complete ONE option below.

A. Contemporary America Option

1. **Fundamental requirements.** 6 cr. Take one course from two of the areas below.
 - a. Communication 211.
 - b. Computer Information Systems 300.
 - c. English 250, 251 or 351, 253, 254.
2. **Social science foundations.** 18 cr. Take one course from four of the areas below. Take remaining two courses from any area.
 - a. Anthropology 339, 371.
 - b. Economics 272, 311, 328*, 342.
 - c. Geography 211, 226.
 - d. Political Science 101, 202, 212, 310, 320.
 - e. Psychology 240, 290, 320, 322.
 - f. Sociology 265, 270, 300, 328*, 343, 355, 356, 357, 360, 366.
 - g. Women's Studies 105.

*May not take both Econ 328 and Sociology 328.
3. **Humanities/arts foundations.** 15 cr. Take one course from each of the areas below. Take remaining course from any area.
 - a. American Literature: English 214, 280, 282, 313b, 382.
 - b. American History: History 130, 212, 360, 378, 379, 382, 385.
 - c. Philosophy/Religious Studies: Philosophy 220, 380, 381; Religious Studies 302, 310, 311, 316.
 - d. The Arts: Art 181; Dance 352; Music 102, 105, 329.
4. **Electives.** To meet the 40 credit upper level requirement and the UWSP 120 credit minimum for graduation, you may select courses from any of the above areas or any area that will add to your individual educational goals.
5. **Senior Experience.** See below.

B. Exploring the Contemporary World of Work Option

1. **Fundamental requirements.** 18-19 cr. Take at least one course from four of the areas below. Take the remaining courses from any area.
 - a. Accounting 210; Business 380; Economics 210.
 - b. Computer Information Systems 115, 300.
 - c. Communication 211, 217.
 - d. English 250, 251 or 351, 253, 254.
 - e. Philosophy 121.
 - f. Statistics, 4 cr, choose one: Econ 310; Math 355; Psychology 300; Sociology 351.
2. **Area of emphasis courses.** 21 cr. Take at least three courses from one of the emphases below. Take remaining courses from any of the emphases.
 - a. *Business emphasis:* Business 330, 340, 350, 360, 370.
 - b. *International emphasis:* International Studies 101; Business 339; Economics 362, 365, 367; English

378; Geography 110, 113, 300; History 330, 332, 340, 346, 348, 352; Political Science 160, 180, 361, 362, 370, 371, 376, 383, 385; Psychology 320, 322.

- c. *Language emphasis:* At least 9 credits in one language beyond the 212 level.
 - d. *Government emphasis:* Political Science 202, 242, 250, 354, 356, 358.
 - e. *Psychology/sociology emphasis:* Psychology 250, 260, 301, 345, 351, 385; Sociology 230, 308, 310, 322, 327, 368.
3. **Electives.** To meet the 40 credit upper-level requirement and the UWSP 120 credit minimum for graduation, you may select courses from any of the above areas or any area that will add to your individual educational goals.
 4. **Senior experience.** See below.

Senior Experience

Required during the final 30 credits before graduation. This capstone program gives you the opportunity to apply expertise learned in the major and encourages you to become actively involved in either the discipline or your community. Select 1. or 2. below. You may collaborate with other students with the coordinator's approval.

1. **Independent study:** 1-3 credits in one discipline in the major approved by the coordinator. Significant research paper or similar product, supervised and approved by an adviser within the discipline. Topic should provide continuity and bring closure to the major.
2. **Independent study:** 1-3 credits of a project approved and supervised by the coordinator, such as a community problem, that relates coursework from the major to your life experiences.

Academic Standards

To graduate with a major in general studies you must have a cumulative GPA of 2.00 in all courses required for the major, including transfer courses, regardless of any declaration of academic bankruptcy. See the section in the catalog entitled *More Academic Information* for the policy on repeating courses.

Test-Out and Credit-by-Exam Policy

You may test out and/or receive credit-by-exam for all general degree requirement (GDR) courses. To test out but not receive credit for all other courses in the major, please consult with the general studies coordinator. You may take an exam for credit or test-out only once.

Courses in General Studies

GENS 395. Topics in General Studies. 3 cr. Subtitle will designate discipline and topic. May repeat under different subtitles for 9 cr max.

GENS 399. Independent Study for Senior Experience. 1-3 cr. Capstone experience for general studies minor. Define, devise and pursue individual paper or project integrating disciplines from the major. Individual faculty supervision. Prereq: Cons general studies coordinator.

Geography

(College of Letters and Science)

Michael Ritter, Geography/Geology Department Chair
Room D-332, Science Building
Phone: 715-346-2629
E-mail: mritter@uwsp.edu

Faculty: K Algeo, T Detwyler, K Hefferan, N Heywood, K Lemke, G Meyer, B Ofori-Amoah, D Ozsvath, K Rice, M Ritter, R Walker.

Geography Major

Consists of a minimum of 44 credits including the required core courses and one of the three options listed below.

Required core courses, 26 credits: Geography 101, 120, 276, 279, 380, 390, 490 or 491, and Math 355.

1. **Physical Environment option:**
 - a. Geography 340 or 344; two of 352, 353 and 358; 377 or 379 or 476.
 - b. Additional credits selected from the following list to total 40 credits in Geography/Geology (plus Math 355): Geography 340, 344, 352, 353, 354, 358, 377, 379, 393 (physical geog topics, 3 cr max), 476; Geology 330, 370, 393 (3 cr max).
 - c. Recommended courses: Biology 305; English 254; Geology 320; History 366; Philosophy 380; Political Science 304; Computer Information Systems 101-102.
2. **Cartographic option:**
 - a. Geography 376 or 386, 377, 379, 382, and 476.
 - b. Additional geography courses to total 40 credits (plus Math 355).
 - c. Recommended courses: Geography 376 or 386 (whichever was not taken in a. above), 479; Computer Information Systems 101-102, 210; additional upper-level coursework in physical, human, and/or regional geography.
3. **Regional Analysis and Community Development option:**
 - a. Geography 110, 373, 476, 496.
 - b. Additional credits selected from the following to total 40 credits (plus Math 355): Geography 300, 301, 303, 340, 344, 369, 370, 372, 374, 377, 378, 379, 382.
 - c. Recommended courses: Geology 330; Business 331; Economics 100, 310, 374; Natural Resources 480; Sociology 356, 357; Political Science 242, 341, 356, 358, 397; Computer Information Systems 101-102.

Geography Major for Teacher Certification

Geography 101, 110, 113, 120, 211, 276, 380 must be taken as part of or in addition to one of the options in the geography major listed above.

NOTE: Enrollment caps are in effect for those seeking teacher certification. Please contact the Department of Geography/Geology early for entrance requirements and application procedures. Also see information about the Professional Education Program and the secondary education curriculum for teacher certification in the *Education* section of this catalog.

Geography Minor

Consists of 22 credits of which at least 6 credits must be 300-level or above.

1. Geography 101, and either 110 or 120.
2. At least one course from each of the following groups:
 - a. Geography 113, 211, 226, 300, 301, 302, 327, 328.
 - b. Geography 340, 344, 369, 370, 372, 373, 374.
3. Additional geography credits to total 22.

Geography Minor for Teacher Certification

Consists of Geography 101, 110, 113, 120, 211, 276, 380. See the note above regarding enrollments caps for teacher certification.

Academic Standards

1. To be approved for graduation, you must have a minimum grade point average of 2.00 (2.75 to student teach), regardless of a declaration of academic bankruptcy
 - a. For the major: in all courses taken in each option declared for graduation within the geography major. Required courses and elective geography or geology courses will be included in determining the GPA for each option.
 - b. For the minor: in all geography courses taken within the minor.
2. As a major, you must have an adviser in the department. Any department faculty member may advise a geography major. You must file a major declaration form in the department office, keep it current, and confer with your adviser every semester.
3. Only UWSP credits and grades will be used to determine the GPA.
4. 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.
5. Geography courses taken at the 300 or 400 level on a pass/fail basis will NOT be credited toward the major or minor.

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, 302, 303, 327, 328, 340, 369, 370, 372, 373, and Geology 100, 104, 105.

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 of the spatial distribution of the earth's physical characteristics, including weather and climate, water, soils, vegetation, and landforms; discussion of environmental processes and interactions creating these physical geographic patterns; discussion of the importance to humans of the physical environment; use of geographic tools including maps, air photos, and investigative techniques. 3 hrs lec, 4 hrs lab per wk; field trip(s) may be required. GDR:NS

GEOG 110(NW). Global Economic Geography. 3 cr. Introductory survey of the distribution patterns and organization and conduct of world economic activities and related issues from a global perspective. Topics may include population, resources, transportation, agriculture, mining, forestry, fishing, manufacturing, services, trade, and economic development. Field trips may be required. GDR:SS1

GEOG 113(NW). World Regional Geography. 3 cr. Survey of major patterns of physical features, culture, and human-land relations by region in today's world; examples may show present and impending resource, environmental, social and political problems, and explore basic solutions. GDR:SS1

GEOG 120(NW). Cultural Geography. 3 cr. Examine components and spatial expressions of contemporary culture including patterns and problems of population, language, religion, urban and rural settlements, political and economic development from perspectives of diffusion, ecology, integration, landscape, and region. GDR:SS1

GEOG 198. Reading in the Discipline. 1 cr; pass/fail. Does not apply to geography major or minor. Prereq: Con reg in another designated geography course.

GEOG 211. Wisconsin. 2 or 3 cr. Geographic analysis of selected physical and cultural features. Prereq: So st. GDR:SS1

GEOG 226. United States and Canada. 3 cr. Geographic interpretation of cultural and physical features and regions. Prereq: So st. GDR:SS1

GEOG 276. Introduction to Cartography: Map Conceptualization and Development. 3 cr. The map production process, including rationale, graphic structure, data collection and organization, map layout, and final production. 2 hrs lec, 3 hrs lab per wk. Prereq: So st.

GEOG 279. Fundamentals of Geographic Information Systems. 2 cr. Definition and components of Geographic Information Systems (GIS) for resource management. Principles and structure of spatial data and cartographic modeling. Spatial data acquisition, manipulation, translation, aggregation, analysis, and presentation. Prereq: any geography, CNR or environmental science course.

GEOG 300/500(NW). Africa. 3 cr. Regional interpretation; distribution and activities of peoples in relation to physical and cultural patterns and various stages and problems of development. GDR:SS1

GEOG 302/502(NW). Southwest Pacific. 3 cr. Geography of Australia, New Zealand, and the Southwest Pacific Islands as conditioned by environmental circumstances, native and alien cultural influences, and political affiliations. GDR:SS1

GEOG 327/527(NW). Asia. 3 cr. Physical features of the continent in relation to distribution of population, agriculture, industry, and trade. GDR:SS1

GEOG 328/528. Europe. 3 cr. Distinctive features of Europe as a continent; physical and historical background; natural regions and their division into political units; the characteristics of each country. GDR:SS1

GEOG 340/540. Environmental Degradation: A World Survey. 3 cr. A systematic review of critical locations representing man's destructive effects on the physical environment. Field trip(s) may be required. GDR:SS1

GEOG 344/544. Environmental Hazards. 3 cr. Human interaction with hazardous phenomena such as earthquakes, storms, and infectious diseases; spatial aspects of the social processes and perceptions creating risk and vulnerability in the environment; local hazards. Field trips may be required. Prereq: Jr st.

GEOG 352/552. Geomorphology. 3 cr. Characteristics, origin, and development of landforms. 2 hrs lec, 2 hrs lab per wk. Field trip(s) may be required. May not earn credit in both Geography 352 and Geology 352. Prereq: 101, or Geology 101 or 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. Field trip(s) may be required. Prereq: 101 or cons instr.

GEOG 354/554. Advanced Climatology. 3 cr. Advanced topics in radiation and energy balances, microclimatology, and hydroclimatology. Introduction to climatological instrumentation and data analysis. 2 hrs lec and 2 hrs lab per wk. Field trip(s) may be required. Prereq: 353, or 101 and cons instr.

GEOG 358. Biogeography. 3 cr. Examination of spatial and temporal patterns of plants, animals, and microbes with emphasis on dynamic relationships between life form, population, and habitat. Also significance of biotic distributions on human affairs and human impacts on biosphere locations. Field trip(s) may be required. Prereq: 101 or Biology 101, or con instr.

GEOG 369/569. Political Geography. 3 cr. Geographical interpretation of selected political areas; the political significance of cultural and physical aspects of such areas. GDR:SS1

GEOG 370. Geography of Transportation. 3 cr. Survey and analysis of spatial aspects of transportation and communication systems and their implications for community and regional development including evolution and impact of transportation systems and transportation planning. Field trip(s) may be required. Prereq: 110 and Math 355, or cons instr. GDR:SS1

GEOG 372. Geography of Manufacturing. 3 cr. Analysis of changes in spatial patterns of manufacturing activities. Emphasis on location and locational changes in manufacturing activities and their implications for regional development. Field trip(s) may be required. Prereq: 110 or cons instr.

GEOG 373/573. Urban Geography. 3 cr. Physical characteristics, spatial patterns, functions, populations, land use, and livelihood structures of cities. Field trip(s) may be required. Prereq: 110 or 120, or cons instr. GDR:SS1

GEOG 376. Map Development and Symbolization. 3 cr. Data manipulation and presentation, centering on cartographic symbols and their application to different mapping problems. 2 hrs lec, 3 hrs lab per wk. Prereq: 276 or cons instr.

GEOG 377. Air Photo Interpretation. 3 cr. Characteristics of aerial photographs and the use of air photo interpretation to gather data concerning regional landform analysis, resource inventories, and land use evaluation. 2 hrs lec, 2 hrs lab per wk. May not earn credit in both Geography 377 and Natural Resources 377.

GEOG 378. Geography of Service Activities. 3 cr. Examination and analysis of spatial patterns of the service sector including: location and locational changes in service activities, and their implications for community and regional development. Field trip(s) may be required. Prereq: 110 or 373, and Math 355, or cons instr.

GEOG 379/579. Remote Sensing of the Environment. 3 cr. Learn principles of remote sensor technology and apply them to inventory earth resources, detect and monitor pollution, and measure other environmental phenomena. Use visual analysis and computer-assisted digital imaging processing techniques to interpret various types of remote sensor imagery. Prereq: Any geology or physical geography course, or cons instr. Field trip(s) may be required.

GEOG 380. Geographical Analysis. 3 cr. Introduction to geographic concepts, methods, and approaches: history and philosophy of geography, geographic literature and bibliographic materials, spatial analysis, field methods, surveys and questionnaires, problem and hypothesis formulation, synthesis and presentation of geographic materials. Prereq: 276, Math 355, and Jr st, or cons instr.

GEOG 382/582. Computer-Assisted Cartography. 3 cr. Introduction to the development, production, and applications of computer-assisted mapmaking. Survey of computer cartography terms, concepts, and equipment, with emphasis on the conceptual and developmental aspects of computer-produced maps. Topics include: digitizing, coordinate data structures, spatial data bases, computer map design, turnkey cartographic systems, and computerized map production. Prereq: Any physical geography or geology course, and 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 390. Applied Statistics in Geography. 3 cr. Survey of geographic problems and quantitative problem solving methods; creation or extraction of relevant data sets from published geographic resources; application, interpretation, and presentation of appropriate spatial and nonspatial statistics. Prereq: 276, Math 355.

GEOG 391/591. Special Topics. 1-3 cr. Subtitle will designate topic of geographical interest. May repeat for credit with different subtitle. Field trip(s) may be required.

GEOG 393/593. Field Trip in Geography. 1-3 cr. Direct observation of 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 Geography 393 and Geology 393 under same locale or topic. Field trip fee may be required. Prereq: Introductory level geography course.

GEOG 395/595. Directed Study. 1-3 cr. Students may, with cons instr, arrange for directed study of a geographical topic. Prereq: One course in geography, 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. Development, use and maintenance of a geographic-based spatial information system (GIS) for resource management. Acquisition and assessment of spatial data. Comparison of raster and vector data models. Computer-based geographic data handling, analysis, interpretation, and display. Emphasis on cartographic and spatial modeling. Prereq: any geography, CNR, or environmental science course; 279 recommended.

GEOG 479/679. Geographic Information Systems II. 3 cr. Intermediate and advanced geographic information systems (GIS) techniques; integration of medium and large scale digital databases, use of 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. Normally one credit represents at least 60 hours of work. Credits and/or additional requirements determined by instructor before registration. May repeat once for max of 12 credits. Prereq: Jr or sr st, 9 credits of 300/400 geography coursework, and cons intern director.

GEOG 485. Practicum in Geography. 1-3 cr. Practical experience in geography completed under supervision of a faculty adviser. Proposed practicum requires approval of chair. May repeat for 6 cr max. Prereq: Jr st and 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 required; may require field trips. Experience in team field work and projects. Prereq: 380 and sr st.

GEOG 491. Senior Thesis. 3 cr. Individualized capstone experience for geography majors. Define geographical problem, devise and pursue plan to solve the problem, and communicate findings in written paper and oral presentation. Preapproval and acceptance by two faculty required. For students anticipating graduate or professional study; may extend over two consecutive semesters. Prereq: 380, dept GPA 3.5; sr st.

GEOG 496. Community Development Practices. 3 cr. Examination and analysis of spatial growth and development of communities and regions; analysis and planning of community development projects and related issues. Field trips may be required. Prereq: 373 and Math 355 or cons instr.

For more course listings in geography, see the *Latent Course List* at the end of this section.

Geology (College of Letters and Science)

Michael Ritter, Geography/Geology Department Chair
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Geology Minor

Consists of 22 credits:

1. Geology 104, 106, 200.
2. Either Geology 320 or 330.
3. Either Geology/Geography 352 or Geology 370.
4. Remaining credits to total 22 selected from Geology 320*, 330*, 352*, 370*, 383, 385, 391, 393 (max 3 cr), 395, 475, 487, 495; Geography 352*, 393 (provided cross-listed with Geology, max 3 cr), 377 or 379 or 476, Biology 311.

*If not taken in 1-3 above. For hydrogeology certification in Wisconsin, 30 credits of geology are required, including 6 credits in groundwater topics.

Academic Standards

To be approved for graduation with a minor in geology, you need a minimum grade point average of 2.00 in all courses taken within the minor, regardless of a declaration of academic bankruptcy. Required and elective courses in geology, geography, and biology will be included in determining the grade point average. Geology, geography, and biology courses taken at the 300 or 400 level on a pass/fail basis will not be credited toward the minor. Only UWSP credits and grades will be used to determine the grade point average.

Test-Out and Credit-by-Exam Policy

See the statement above under *Geography*.

Courses in Geology

GEOL 100. Geology and Man. 3 cr. Introduction to geological knowledge and its application to reduce harmful effects of human interaction with the physical environment. 2 hrs lec, 2 hrs lab per wk. Field trip(s) may be required. GDR:NS

GEOL 104. Physical Geology. 4 cr. Introduction to the study of minerals and rocks and processes which act upon and within the earth. 3 hrs lec, 2 hrs lab per wk. Field trip(s) may be required. 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 designated geology course.

GEOL 200. Mineralogy and Petrology. 4 cr. Origin and classification of common rocks and minerals with emphasis on hand sample identification. Field trips required. Prereq: 104.

GEOL 295. Directed Study. 1 or 2 cr. Students may, with cons instr, arrange for directed study of a geological topic. Prereq: Cons instr.

GEOL 320. Structural Geology. 3 cr. Analysis of rock deformation features such as folds, faults and shear zones and their tectonic significance. 2 hrs lec, 2 hrs lab per wk. Field trip(s) required. Prereq: 104.

GEOL 330/530. Environmental Geology. 3 cr. The application of 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: 101 or 104.

GEOL 352/552. Geomorphology. 3 cr. Characteristics, origin, and development of landforms. 2 hrs lec, 2 hrs lab per wk. Field trip(s) may be required. May not earn credit in both Geology 352 and Geography 352. Prereq: 101 or 104, or Geography 101, or cons instr.

GEOL 370/570. Glacial Geology. 3 cr. The origin and development of glacial features and related phenomena over the last three million years. Field trip(s) may be required. Prereq: 104 or Geography 101.

GEOL 383/583. Hydrogeology. 3 cr. The occurrence and movement of groundwater in the geologic environment; response of aquifers to pumping wells; groundwater resource quality, exploration, and management. 2 hrs lec, 2 hrs lab per wk. May not earn credit in both Geology 383 and Water 383. Prereq: 101 or 104, Water 180, Math 120, or cons instr.

GEOL 385/585. Hydrogeologic Investigations. 2 cr. Design of a hydrogeologic investigation, field techniques for data collection, analysis and interpretation of hydrogeologic data; students submit a site investigation report. Prereq: Geology/Water 383.

GEOL 391. Special Topics. 1-3 cr. Subtitle will designate topic of geological interest. May repeat for credit with different subtitle. Prereq: 101 or 104 or equiv.

GEOL 393/593. Field Trip in Geology. 1-3 cr. Direct observation of geological phenomena; required 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 the same locale or topic. Field trip fee may be required. Prereq: Introductory level geology course.

GEOL 395/595. Directed Study. 1-3 cr. Students may arrange for directed study of a geological topic with cons instr. Prereq: Cons instr, and a 300 level geology course.

GEOL 475/675. Groundwater Management. 1 cr. Principles and practices of protecting groundwater quality and supply and practices to deal with groundwater problems once they have occurred. Existing laws, regulations, and management plans; social, economic, and scientific criteria used in reaching management decisions. May not earn credit in both Geology 475 and Water 475. Prereq: 383.

GEOL 479/679. Contaminant Hydrogeology. 3 cr. Physical and chemical processes affecting the behavior and transportation of groundwater contaminants; application of contaminant transportation models; monitoring and remediation of groundwater contamination. May not earn credit in both Water 479 and Geology 479. Prereq: Water/Geology 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. Normally one credit represents at least 60 hours of work. Credits and/or additional requirements determined by instructor before registration. May repeat once for max of 12 cr. Prereq: Jr or sr st, 9 credits of 300/400 geology coursework, and cons intern director.

GEOL 485. Practicum in Geology. 1-3 cr. Practical experience in geology completed under supervision of a faculty adviser. Proposed practicum requires approval of chair. May repeat for 6 cr total. 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: 101 or 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, with emphasis on modeling theory, groundwater flow and particle tracking models. May not earn credit in both Water 495 and Geology 495. Prereq: Water/Geology 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.

For more course listings in geology, see the *Latent Course List* at the end of this section.

GERMAN

See *Foreign Languages*.

GERONTOLOGY

See *Sociology*.

GRAPHIC DESIGN

See *Art and Design*.

GROUNDWATER

See *Natural Resources-Water Resources*.

Health, Exercise Science, & Athletics

(College of Professional Studies)

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Note: You may NOT take courses pass/fail that lead to completion of a professional program offered in the School of Health, Exercise Science, and Athletics (physical education, athletic training, coaching, health education, physical education for the exceptional individual).

Abbreviations:

AT = Athletic Training

HEC = Health Enhancement Center (Phy Ed Building)

HESA = Health, Exercise Science, and Athletics

HLED = Health Education

HPW = Health Promotion/Wellness

P ED = Physical Education

PEX = Physical Education for the Exceptional Individual

WLNS = Wellness (formerly general physical education)

Physical Education Major (Comprehensive for K-12 Teacher Certification)

Enrollment Requirements: There is an enrollment cap of 100 physical education majors. If you wish to transfer into physical education from a different UWSP major, you must have a 2.50 cumulative grade point average. New students must follow these requirements:

1. **Freshmen:** Complete a minimum of 28 credits with a 2.40 GPA. These credits include P ED 105; Math 100, English 101 and 102, Biology 160, Psychology 110, and 5 credits of chemistry or physics (23 credits).
2. **Sophomores:** Complete 60 credits with a grade point average of 2.60 and apply to the School of Education by the end of your sophomore year.
3. P ED 105 becomes a prerequisite for 200 and 201 for physical education majors.
4. If you fail to meet the above requirements you will not be allowed to register for professional physical education courses. You may appeal to the director of physical education.
5. There are enrollment caps for admission to the Professional Education Program. Please consult your adviser in the physical education department for specific requirements.

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Physical Education Major: Consists of 42 credits:

1. **Required:** P ED 105, 200, 201, 220, 260, 271, 310, 315, 331, 380, 391, 428; AT 351; HPW 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 211 and 212; Psych 110; Political Science 201.
 - c. First Aid/CPR: WLNS 123.
 - d. Education 205, 351, 381, 386, P ED 398.
3. To be admitted into the physical education program, you must have an overall grade point average of 2.50, complete an application form and meet with the director. Continuing students in the physical education major must get the signature of their HESA adviser.
4. Please 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. To repeat a course, follow UWSP policy. The last of the grades for repeated courses will be calculated into your GPA. No credit received for "special work" courses (199, 299, 399) may be calculated in the cumulative GPA required for admittance into the program.
6. Before applying to the School of Education, physical education majors, including transfer students, must:
 - a. Have a 2.5 GPA from all institutions.
 - b. Complete all natural science general degree requirements.
 - c. Complete at least 13 credits in the major (P ED 105, 200, 201, 220, 260) with at least 6 credits at UWSP.
 - d. To get specific criteria required for the application and for advising, register with the director of physical education early in the semester before you apply to the School of Education.
 - e. Be aware that because of enrollment caps in the teacher certification program, you may not be admitted to the School of Education.

Athletic Training Major

Admission requirements: Incoming freshmen who declare an athletic training major are "premajors."

1. Before you apply, complete at least 30 credits including AT 181, Biology 160, Chemistry 101, Human Development 265, HPW 102, Medical Technology 295, Psychology 110, WLNS 123, with a grade of C or better.
2. Complete 60 hours (30 per semester) of observational performance within the athletic training facility.
3. Have a minimum 2.75 grade point average in all credits attempted.
4. Request (in writing) and complete the application document.
5. Submit four letters of recommendation.
6. Complete the formal interview.
7. Application deadlines are October 1 and March 1. Admission decisions are provided in writing by November 1 and April 1. You may apply twice.
8. Maximum number of students in the program is 35. Check with chair for latest requirements.

Retention Standards:

1. Maintain a 3.0 GPA in major and collateral coursework.
2. Maintain a 2.75 cumulative GPA in all credits attempted.
3. Maintain 3.0 (5.0) clinical evaluation scores. (Student athletic trainer evaluation form is based on a 5 point scale.)
4. Maintain a C or better in all major and collateral coursework.

Athletic Training Major: Consists of 50 credits:

1. **Required:** AT 181, 251, 300, 301, 380, 381, 382, 400, 401, 420, 435; Coaching 372; Food and Nutrition 353; Medical Technology 295; P ED 220, 271, 310; HPW 312.
2. **Collateral requirements:** Biology 160, 285; Chemistry 101 or Physics 101; HPW 102; Human Development 265; Psychology 110; WLNS 123.
3. Medical statement (including immunizations) indicating you have been examined within the last year and are free of tuberculosis.
4. Hepatitis B vaccination or signed declination statement.
5. Complete the following clinical rotations:
 - a. One season of football, including two per day practices.
 - b. Two assigned university intercollegiate team experiences.
 - c. One semester at an affiliated sports medicine clinic.
 - d. One semester at an affiliated high school.
6. Complete a minimum of 1,500 field experience hours under the direct supervision of a NATA certified athletic trainer. These hours must be attained after acceptance into the program over a minimum of two years and not more than five years. If accreditation requirements change, the number of hours may change. Check with the chair for latest requirements.

Notes for Athletic Training Majors:

1. All requirements for the major must be complete before the program director will endorse your application for the National Athletic Trainers' Association Board of Certification examination.
2. If you are denied acceptance into the program you may contact the associate dean of HESA for appeal procedures. The HESA Appeals Committee will review and act on your appeal letter and letters of recommendation.
3. To repeat a course, follow UWSP policy. The last of the grades for a repeated course will be calculated into your GPA. No credit received for "special work" courses (199, 299, 399) may be calculated into the cumulative GPA required for admission to the program.
4. The major will be effective for new freshman and transfer students in fall 1999. If you entered the program as a sports medicine minor, complete the minor under the direction of the catalog in place when you entered.

Coaching Minor

Consists of 21 credits:

1. Coaching 200, 361, 372; P ED 362, 391, AT 351.
2. At least three courses from Coaching 282-294.
3. Elementary education majors may count Psychology 260 or Human Development 265 to reach a maximum of 22 credits.

Health Education Minor

Consists of 22 credits:

1. Biology 285; HLED 104, 140, 340, 390, 427; Food and Nutrition 351.
2. Health promotion majors may substitute Food and Nutrition 353 for 351.
3. If you are preparing to teach, you must take HLED 398 (Student Teaching) at all levels in which you are seeking certification.

Adapted Physical Education 860 Add-On Certification

This sequence must be completed with the comprehensive physical education (K-12) teaching major in order to receive the 860 add-on certification. Take PEX 315, 335, 360, 400, 401, and Education 351.

Test-Out and Credit-by-Exam

Test out credit is available for all courses meeting the general degree requirement in Wellness(WLNS). You may attempt test-out for a maximum of 3 credits. You may earn a maximum of two 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 Quandt). 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 which 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 Quandt). 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 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 251. Risk Management and Acute Care of Athletic Injury and Illness (formerly Sports Medicine 351). 3 cr. Cause, treatment and prevention of injuries and illness common to athletic activities as well as factors affecting performance levels. Prereq: Physical Education 271, valid First Aid certification, admission to program.

AT 300. Athletic Training Practicum I. 2 cr. Clinical application of 251. Preparticipation screening of athletes, prevention of athletic injuries, and strength and conditioning techniques. Prereq: 251 or con reg; admission to program.

AT 301. Athletic Training Practicum II. 2 cr. Further clinical application of 251. Risk management and acute care of athletic injuries. Prereq: 251 or con reg, admission to program.

AT 380. Athletic Injury Assessment Techniques. 3 cr. Evaluation techniques for athletic injuries to the upper and lower extremities. Develop techniques and procedures based on orthopedic physical assessment. Prereq: 251, 300, P ED 271, admission to program.

AT 381. Athletic Injury Rehabilitation (formerly Sports Medicine 381). 3 cr. Rehabilitation protocols for specific athletic injuries and varying strength and conditioning techniques including plyometrics, core stabilization, and proprioception activities. Prereq: 251, 300, 301, admission to program.

AT 382. Therapeutic Modalities (formerly Sports Medicine 382). 1 cr. Principles of electromagnetic and acoustical modalities, indications and contraindications, and procedures for applying therapeutic modalities for treatment of athletic injuries. Prereq: 251, admission to program.

AT 400. Athletic Training Practicum III. 3 cr. Clinical application of 380. Injury evaluation and physical examination skills. Prereq: 380, admission to program.

AT 401. Athletic Training Practicum IV. 3 cr. Clinical application of 381 and 382. Organization and communication skills in the health care environment, therapeutic modalities and rehabilitation of injuries in an active population. Prereq: 381, 382, admission to program.

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, admission to program.

AT 435. Senior Seminar in Athletic Training. 3 cr. Examine contemporary issues and problems confronting the athletic trainer such as care of older adults; care of athletes with developmental disabilities and/or specific medical conditions; pharmacology and pathophysiology issues; examination of legal, medical, and ethical protocols governing the athletic training profession; review of the NATA guidelines and competencies. Prereq: 301, admission to program.

Courses in Coaching

COAC 200. Scientific Concepts of Coaching (formerly 371). 3 cr. Scientific concepts of anatomy, biomechanics, and physiology applied to coaching athletes. Analysis of performance based on anatomical and mechanical principles.

COAC 282-294. Coaching of Specific Sports. Each 2 cr. Theory and techniques, training schedules, strategy, coaching methods, and conditioning. Prereq: So st.

282. Basketball; 283. Wrestling; 284. Football; 285. Baseball; 286. Track and Field; 287. Soccer; 288. Ice Hockey; 289. Swimming; 290. Volleyball; 291. Tennis; 292. Gymnastics; 293. Golf; 294. Sports Modules.

COAC 361. Practicum in Coaching. 2 cr. Practical experiences in coaching sports at various educational levels. 1 hr lec, 2 hrs lab per wk. Prereq: At least one of 282-293.

COAC 372. Motivational Aspects of the Athlete. 3 cr. The study of the social and behavioral factors of coaching.

COAC 381. Athletic Injury Assessment and Rehabilitation. 2 cr. Assessment procedures and rehabilitation protocols for specific athletic injuries. Prereq: AT 251.

COAC 382. Therapeutic Modalities. 1 cr. Principles of electromagnetic and acoustical modalities, indications and contraindications, and procedures for applying therapeutic modalities for treatment of athletic injuries. Prereq: 381.

COAC 397/597. Workshop in Coaching. Variable credit. Participate in special experiences related to your minor program. 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 will be based on the scope of the project. Before beginning the prearranged project, a statement must be filed in the Professional Studies coordinator's office in the School of HESA.

COAC 790. Seminar in Current Issues. 1-3 cr. Subtitle will designate focus.

COAC 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization; regular conferences with staff supervisor, through arrangement with head of HPERA.

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.

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Courses in Health Education

HLED 104. Introduction to Current Health Issues. 4 cr.

Introduction to health/wellness programs in schools and community; development of the health education professional. Current issues of mental-emotional health, stress management, aging and dying, disease, alcohol, and consumer 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 the methodology needed to deliver a K-12 sexuality curriculum. GDR:WLNS/HE

HLED 280. Health Education in the Elementary School. 3 cr. Principles, techniques, and materials applied to teaching health in the elementary school; also personal health behavior. Prereq: So st. GDR:WLNS/HE

HLED 340. Curriculum and Resources in Health Education. 3 cr. Curriculum design, content, and resources, with practical experience and field problems in health education and community resources. Prereq: 104.

HLED 390/590. Wellness and Drugs. 3 cr. Uses of drugs in our culture; decision-making process leading to minimal, intentional, deliberate use of drugs including caffeine, nicotine, alcohol, over-the-counter drugs, prescription drugs, and illegal drugs; effects, consequences, and alternatives.

HLED 397/597. Workshop in Health Education. Variable credit. Participate in special experiences related to your minor program. 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 education minors may arrange for independent study with cons instr and coordinator. Credit will be based on the scope of the project. Before beginning the prearranged project, a statement must be filed in the Professional Studies coordinator's office in the School of HESA.

HLED 427. Techniques in Elementary and Middle School Health Education. 2 cr. Aims, methods, materials, strategies, techniques, organization and testing in K-9 health education. Prereq: 340.

HLED 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 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 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization; regular conferences with staff supervisor, through arrangement with head of HESA.

HLED 797. Workshop in Health Education. Variable credit. Participate in special graduate level experiences related to your major program. Subtitle will designate area. May repeat for 6 cr max.

Courses in Physical Education

P ED 105. Introduction to Physical Education and Wellness. 2 cr. Philosophy, aims and objectives of physical education including intramural, recreational, and interscholastic activities; introduction to wellness philosophy and to leadership qualities necessary to major in physical education.

P ED 199. Independent Study. 1-3 cr. Students may arrange for work not normally available through regular courses. Work must be prearranged with a statement filed with the associate dean (or representative). Wellness substitutions may be approved. Prereq: Cons instr.

P ED 200. Professional Teaching Skills I. 3 cr. Skills and methods in teaching tumbling and rhythmic gymnastics, swimming, field sports, racquet sports, and team sports. Prereq: 105 or cons instr.

P ED 201. Professional Teaching Skills II. 3 cr. Skills and methods in teaching weight training, aerobics/fitness screening, winter recreation, adventure education, and individual sports. Prereq: 105 or cons instr.

P ED 220. Foundations of Motor Learning. 3 cr. Introduction to motor learning theory, principles, and practices in exercise

programming, physical conditioning, and motor skill development. Prereq: 200, or cons instr.

P ED 251. Physical Education for Elementary Grades K-3. 3 cr. A conceptual approach to gross motor development, perception, and motor patterns of children through the third grade. Lectures, collateral reading, research, and field trips. Required of all students in the primary education curriculum. 3 hrs per wk plus field work. Prereq: So st. GDR:WLNS/AA

P ED 252. Physical Education for Elementary Grades 4-6. 3 cr. Continuation of 231 for grades four through six. Lectures, collateral reading, research, and field trips. Required of all students in the intermediate-upper elementary education curriculum. 3 hrs per wk plus field work. Prereq: So st.

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 253. Standard First Aid and CPR Instructors. 2 cr. Medical self-help and CPR training and preparation for teaching as prescribed by the American Red Cross; certificate of authorization granted on satisfactory completion of course. Prereq: Valid standard first aid and infant, child and adult CPR certificates.

P ED 254. Advanced First Aid and Emergency Care. 2 cr. American Red Cross advanced training; certificate issued on satisfactory completion of course to those over 18 years of age.

P ED 260. Practicum Experience in Physical Education (formerly 360) 2 cr. Clinical field experience with a secondary and elementary placement; one hour of observation at each school site per week. Prereq: So st and physical education major.

P ED 271. Human Anatomy. 3 cr. The skeletal, muscular, circulatory, respiratory, and nervous systems of the human body. Prereq: cons instr.

P ED 310. Kinesiology. 3 cr. Study of body movement and principles which affect movement. Prereq: 271, or cons instr.

P ED 315. Dance Methods. 2 cr. Methods, materials, and fundamental principles for teaching dance including folk, square, and ballroom in K-12 physical education programs. Prereq: Jr st or cons instr.

P ED 331. K-6 Physical Education Curriculum. 4 cr. Emphasis on physical education principles, practice and activities for K-6. Practicum experience provided in class. Prereq: 200, 201, 260, major and jr st.

P ED 353. Advanced First Aid Instructors. 1 cr. Preparation for teaching advanced first aid prescribed by American Red Cross; certificate of authorization granted on satisfactory completion of the course. Prereq: Valid advanced first aid certificate.

P ED 362. Strength Training/Facility Management Practicum. 2 cr. Theory and practical experience in strength training, exercise programming, weight room management, budget planning and strength coaching for physical education/health promotion majors and coaching minors. Prereq: 126 or Wellness 183 and cons instr.

P ED 380. Measurement, Evaluation, and Assessment in Physical Education. 2 cr. Analysis and construction of tests in cognitive, health-related fitness, and psychomotor domains. Evaluation of student performance for the purpose of assessment/grading in physical education. Prereq: Jr st.

P ED 391. Organization and Administration of Physical Education and Athletics. 3 cr. Problems of the administration of gymnasias, playgrounds, pools, locker rooms, interscholastic athletics and intramurals; management of the business affairs of each type of program. Prereq: Sr st, cons instr.

P ED 395. Seminar in Physical Education, Health, and Recreation. 1 cr. Current developments in physical education, health, and recreation. Prereq: Sr st for physical education majors.

P ED 397/597. Workshop in Physical Education. Variable credit. Participate in special experiences related to your major program. Subtitle will designate area. May repeat for 6 cr max.

P ED 398. Student Teaching in Physical Education. 1-16 cr; pass/fail. Observation and teaching of physical education under the guidance of cooperating teachers and university faculty. Sections offered at elementary and secondary levels.

P ED 399. Special Work. Upperclass physical education and wellness majors may arrange for independent study with cons instr and coordinator. Credit will be based on the scope of the project.

Before beginning the prearranged project, a statement must be filed in the Professional Studies coordinator's office in the School of HESA.

P ED 428. Techniques and Curriculum in Secondary Education: Physical Education. 3 cr. Methods, materials, and fundamental principles in curriculum development; take no earlier than one semester before student teaching.

P 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: Complete all methods courses and 75% of content courses in approp major. Con reg in approp section of Educ 400 may be required.

P ED 790. Seminar in Current Issues. 1-3 cr. Subtitle will designate focus.

P ED 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization; regular conferences with staff supervisor, through arrangement with head of HESA.

P ED 797. Workshop in Physical Education. Variable credit. Participate in special graduate level experiences related to your major program. Subtitle will designate area. May repeat for 6 cr max.

For more course listings in physical education, see the *Latent Course List* at the end of this section.

Courses in Physical Education for the Exceptional Individual (PEX)

PEX 200. Neurodevelopmental Physical Education for Exceptional Individuals. 3 cr. Legislative/litigative trends, development of the individualized education programs, program organization, and transdisciplinary provision of services. Prereq: Con reg in Education 351.

PEX 250. Wellness for the Challenged. 2 cr. Development of health promotion/wellness programs for the physically, mentally, and emotionally challenged.

PEX 305. Motor Development. 2 cr. Motor development in the nonhandicapped; examination of developmental delay and abnormality in the motor behavior of the handicapped. Prereq: 300, 301; or cons instr.

PEX 315. Activities for the Exceptional Individual. 3 cr. Activity selection, curricular development, and program implementation in teaching and other types of recreational/fitness programs.

PEX 319. Exercise, Recreation, and Health Enhancement for the Elderly. 3 cr. Assessment and prescription of exercise, recreation and health enhancement programming for the elderly. Prereq: Cons instr.

PEX 335. Assessment and Prescription in the Motor Domain for Exceptional Individuals. 2 cr. Prereq: 300, 301.

PEX 360. Advanced Practicum in Physical Education for Individuals with Special Needs. 1 cr. Practical experience working with persons with special needs in education/community-based programs. Subtitle will designate area. May repeat for 3 cr max. Prereq: 300 and 301.

PEX 397. Workshop in HPERA and Safety for Exceptional Individuals. Variable credit. Intensive hands-on experience with exceptional individuals.

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 (formerly 300). 2 cr. Prereq: Con reg in 401; and P ED 200, 201, 331.

PEX 401. Physical Education for Individual with Disabilities (formerly 301). 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.

PEX 498. Intern Teaching. Variable cr; pass/fail. Structured field experiences in approved school programs. Interns are certified by the DPI and are employed under contract with schools to design, deliver, and assess instructional programs in grades n-k-12. Prereq: Complete all methods courses and 75% of content courses in approp major. Con reg in approp section of Educ 400 may be required.

Courses in Wellness

WLNS 100 to 299. Wellness. 1 cr. each. Developmental, individual, recreational, and educational activities which 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 get a bachelor's degree, you must take 3 credits of wellness (GDR:WL), 1 or 2 credits in aerobics/activities courses and 1 or 2 credits in health enhancement courses. Most of the wellness courses apply to the aerobics/activities category. WLNS 123, 140-151 apply to the health enhancement category, as do Physical Education 102 and 252, Health Education 104 and 140, Food and Nutrition 151 and Human Development 367, and Psychology 255 and 290. You may not repeat courses for this requirement. You may apply only **ONE** credit of athletics or intramurals toward the 3 credit graduation requirement. A specially designed physical education program is available if you have a disability or chronic medical problem. Please contact the HESA office for more information.
2. **ATTENTION ATHLETES:** WIAC eligibility rules require a 12-hour study load in each semester.
3. If you transfer to this university, you are expected to fulfill the 3 credit wellness general degree requirement at UWSP.
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. HE
- 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 107. Aerobics I. AA
- WLNS 108. Aerobics II. AA
- WLNS 109. Beginning Bowling. AA
- WLNS 110. Intermediate Bowling. AA
- WLNS 111. Advanced Bowling. AA
- WLNS 112. Angling. AA
- WLNS 113. Independent Walking Programs. AA
- WLNS 114. Archery. AA
- WLNS 115. Bow Hunting. AA
- WLNS 116. Tournament 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 122. Orienteering. 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 133. Beginning Fencing. AA
- WLNS 134. Intermediate Fencing. AA
- WLNS 135. Beginning Golf. AA
- WLNS 136. Intermediate Golf. AA
- WLNS 137. Beginning Tennis. AA
- WLNS 138. Intermediate Tennis. AA.

WLNS 139. Beginning Canoeing. AA
WLNS 140. Advanced Golf. AA
WLNS 141. Building Healthy Personal Relationships. HE
WLNS 143. Personal Power Development. HE
WLNS 144. Stress Management. HE
WLNS 145. Yoga. HE
WLNS 146. Life Guarding. HE
WLNS 147. Life Guarding Instructor. HE
WLNS 148. Consumer Health. HE
WLNS 149. Stress Management, Nutrition and Exercise. HE
WLNS 150. Diabetic Self Care. HE
WLNS 151. Nutrition and Exercise. HE
WLNS 152. Independent Jogging. AA
WLNS 153. Advanced Fitness. AA
WLNS 154. Individualized Exercise Programming. AA
WLNS 155. Jogging AA.
WLNS 156. Conditioning. AA
WLNS 157. Recreational Games. AA
WLNS 158. Instruction Racquetball. AA
WLNS 159. Recreational Aerobic Racquetball. AA
WLNS 160. Personal Defense. AA
WLNS 161. Independent Walking/Jogging Programs. AA
WLNS 162. Cross Country Skiing. AA
WLNS 163. Downhill Skiing. AA
WLNS 164. Curling. AA
WLNS 165. Ice Skating. AA
WLNS 166. Rollerskating. AA
WLNS 168. Wallyball. AA
WLNS 169. Aquatic Exercise. AA
WLNS 170. Beginning Swimmer. AA
WLNS 171. Intermediate Swimmer. AA
WLNS 172. Water Games. AA
WLNS 173. Scuba. AA
WLNS 174. Swim for Fitness. AA
WLNS 175. Synchronized Swimming. AA
WLNS 176. Volleyball. AA
WLNS 177. Fall Recreation. AA
WLNS 178. Winter Recreation. AA
WLNS 179. Gymnastics. AA
WLNS 180. Softball, Volleyball. AA
WLNS 181. Soccer. AA
WLNS 182. Softball/volleyball. AA
WLNS 183. Weight Training. AA
WLNS 185. Advanced Backpacking. AA
WLNS 186. Condition, Military Science AA
WLNS 187. Fall Recreation. AA
WLNS 188. Winter Recreation. AA
WLNS 189. Advanced Cycle Weekend. AA
WLNS 190. Advanced Canoeing Weekend. AA
WLNS 191. Cross Country Skiing Weekend. AA
WLNS 192. Downhill Skiing Weekend. A
WLNS 193. Intramurals - Individual Participation. AA
WLNS 194. Intramurals - Club Sports. AA
WLNS 195. Intercollegiate Athletics - Women. AA
WLNS 196. Intercollegiate Athletics - Men. AA
WLNS 197. Sport Assistant. AA
WLNS 198. Swim Assistant. AA
WLNS 199. Independent Study. AA
WLNS 200. Tai Chi Level I. AA
WLNS 201. Tai Chi Level II. AA
WLNS 202. Tai Chi Level III. AA
WLNS 203. Tai Chi Level IV. AA
WLNS 204. Tai Chi Level V. AA
WLNS 205. Water Safety Instructor. HE
WLNS 206. Responding to Emergencies - CPR/First Aid. HE
WLNS 207. HIV/Aids. HE
WLNS 208. HIV/Aids - Instructor Course. HE
WLNS 209. CPR for the Professional Rescuer. HE
WLNS 210. CPR for the Professional Rescuer - Instructor. HE
WLNS 211. Tai Chi Level VI. AA
WLNS 212. Tai Chi Level VII. AA
WLNS 213. Tai Chi Level VIII. AA
WLNS 214. Ice Hockey . AA
WLNS 215. Rock Climbing. AA
WLNS 216. In-Line Skating. AA
WLNS 242. Medical Self Care. HE
WLNS 299. Independent Study. HE

Health Promotion and Human Development (College of Professional Studies)

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Abbreviations

ECE = early childhood education
FCE = family and consumer education
FN = food and nutrition
HD = human development
HP = health promotion
HPW = health promotion/wellness
SHP = safety and health protection

Child and Family Studies Minor

Consists of 22 interdisciplinary credits.

1. HD 166, 265, 367, 486 (3 cr).
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. ECE 262, 460; FN 351, 490; HD 360, 362, 468, 490.
 - c. Communication 211.
 - d. Psychology 240, 255, 301, 315, 320, 360, 465.
 - e. Sociology 224, 225, 265, 343, 366, 367, 468.

Dietetics Major

1. **Required courses**, 50 credits: HD 265; FN 101, 106, 246, 253, 342, 347, 357, 373, 393, 400, 448, 455, 456, 457, 465.
2. **Required collateral courses**, 51-54 credits: Biology 101 or 160, 285, 333, 286 or Physical Education 271; Business 380; Chemistry 105 and 106 (or 115 and 116), 220, 260; Economics 210; Mathematics 100 (unless exempt) and 355, Computer Information Systems 101/102; Psychology 110; Sociology 101 or Anthropology 101.

Fulfilling the degree requirements in the dietetics program and completing an American Dietetic Association accredited internship or an approved ADA preplanned professional program will satisfy eligibility requirements for writing the registration examination, and/or for membership in the American Dietetic Association.

Nutrition Minor

Consists of 18 credits.

1. Fifteen credits: FN 101, 106, 253, 357, 373, 393 or FCE 390 or HPW 300.
2. Three credits of electives from: HD 261 or 265; HPW 204; Psychology 480; Sociology 315.

Family and Consumer Education Major

Teacher Certification: To graduate with a major in family and consumer education (certification option) you must meet the requirements for eligibility to student teach prior to registering for student teaching. See the **Education** section of this catalog. You must achieve a 2.75 GPA in your major, minor, and education courses or be in the upper half of your class before you student teach, and earn a grade of "pass" in all areas of student teaching in order to graduate.

Enrollment caps are in effect. Before you can apply for teacher certification you must complete 6 credits of required human development and food and nutrition courses, one family and consumer education course, and have a 2.75 grade point average in the major including transfer courses. If there are more applicants than openings, decisions to accept will be made on grade point ranking in the family and consumer education major. A personal interview may be conducted if necessary to make a final decision.

1. Teacher certification option:

- a. Required courses, 30 credits: HD 166, 261 or 265, 362, 367, 372, 381, 486; FN 106, 253 or 351, 357.
- b. Courses required for teacher certification, 50-51 credits: FCE 290, 390, 391, 392, 394, 396, 398, 400; Education 205, 351, 381, 386; Political Science 201; History 211 (or 120, 130, 379MNS, 382MNS, or 385MNS if B.S.), 212; Humanities from Area 1 and Area 2.
- c. Required collateral courses, 9 credits: Economics 210; Psychology 110; Sociology 101.
- d. After you have completed 45 credits, apply for admission to the Professional Education Program. For a list of criteria see the **Education** section of this catalog.

2. Noncertification option:

- a. Required courses, 27-32 cr: HD 166, 362, 367 (3 cr), 372, 381, 397, 486; FN 253 or 351; ECE 262.
- b. Family and Consumer Education, 7 credits: 390, 391, 392.
- c. Required collateral courses, 12 credits: Economics 210; Psychology 110; Sociology 101 or 102; Instructional Resources 331.
- d. Area of emphasis (choose one) 16-18 credits:
 - 1) **Families-Children and Youth:** HD 261 and 360 or HD 265 and either Sociology 225 or Psychology 315; plus two courses from Education 205, Psychology 322, Sociology 328, 356; ECE 460 or Education 378; Sociology 240 or 343 or 364.
 - 2) **Families-Adult and Community:** Communication 211; FCE 394; HD 265; Psychology 322 or Sociology 328 or 356; Sociology 265 or 366 or 367 or Psychology 465; Sociology 300.
- e. Area of interest, 12-15 credits, in an area approved by your adviser. Examples include political science, computer information systems, communication, sociology, anthropology, economics, psychology, physical education, business.

Health Promotion Major (HP)

Enrollment Requirements:

- 1. If you wish to major in health promotion (HPW) you should complete the following courses during the first two semesters you are on campus: English 101/102, or English 150; Biology 160; Chemistry 100 or Physics 100; HPW 101, 126, 201; Psychology 110.
- 2. There are two levels of students in the major.
 - a. First, when you declare the major, you must apply through your HPW adviser before you complete 60 credits. Overall cumulative grade point requirements are: at least a 2.50 GPA if you have less than 30 credits; at least 2.65 GPA if you have 31-59 credits; and at least a 2.75 GPA if you have more than 60 credits.
 - b. Second, when you are accepted into the major you must have completed courses listed in 1. above plus Biology 285, HPW 204, and SHP 210.

Health Promotion Requirements

Consists of 69 credits, including prerequisites, collaterals, and laboratory courses, 15 of which will also count as general degree requirements.

- 1. **Required:** Current certification in CPR and First Aid (may be met by taking Wellness 123); HPW 101, 126, 201, 204, 300, 301, 305, 312, 320, 340, 360, 401, 410, 420, 450; SHP 210, 330.
- 2. **Collateral requirements:** Physical Education 271 or Biology 286, FN 353, Psychology 385 and the prerequisites necessary for these courses.
- 3. **Laboratory science:** Biology 160, 285, Chemistry 100 or Physics 100. Preprofessional majors should see their advisers for specific requirements and permission to substitute higher level science courses.
- 4. **Minor or emphases:** After receiving approval from your HPW adviser, complete ONE of the following:
 - a. A minor of 18-24 credits. Recommended minors are safety and health protection, business, communication, gerontology, health education, nutrition, psychology, sociology, camp and youth agency administration and programming. (Please find specific requirements for each minor in that department's listings.)
 - b. Two 9 credit emphases.
- 5. If you do not meet the GPA requirements listed above, you must work with your HPW adviser to develop an approved plan that constitutes a one-semester contract for achieving the required GPA. If you are unable to attain the required GPA within the allotted time frame, you will not be allowed to register in professional courses and will be referred to the Student Academic Advising Center for assistance. You may reapply to the major once the GPA requirement is met. If you have declared academic bankruptcy, you may apply to the major by submitting a career plan and having it approved by the coordinator of health promotion. You will then be placed on contract and expected to meet the required GPA.
- 6. **Practicum experiences:** You must complete the exercise practicum plus two more selected from stress management, lifestyle assistant, nutrition, cardiac rehabilitation, promotion, or others. You may apply for an internship experience ONLY after passing three practicums.
- 7. You need a minimum 2.75 cumulative grade point average and current certification in First Aid and CPR before you are accepted for internship.
- 8. HPW 101, 360, 401, 450 are offered as pass/fail only.

Emphases for Health Promotion

You may choose two 9 credit emphases in place of a minor. This sampling of courses will provide you with an opportunity for depth within the health promotion field. You must meet prerequisites required by each course. You must have your adviser's approval before beginning each emphasis.

1. **Child and Family:** HD 362, 367, 466, 486; Sociology 224, 225, 240.
2. **Experiential and Adventure-based Programming and Management:** Natural Resources 281, 300, 320, 365, 368, 376, 383; HPW/NR 460; Physical Education 447; SHP 330; Sociology 310, 315. Certification as climbing instructor, wilderness first aid, white water canoe, water rescue, etc. recommended.
3. **Gerontology:** Economics 328; FN 458; PEX 319; Psychology 465; Sociology 265, 308, 366, 367, 460, 467; HPW 470.
4. **Food and Nutrition:** FN 106, 357, 373.
5. **Psychology:** Psychology 250, 290, 301, 320, 330, 335, 345, 401, 480.
6. **Media Presentation/Promotion:** Instructional Resources 331, 332, 341; Communication 322, 323, 331, 334; Computer Information Systems 370, 373.
7. **Sports Specialist:** Physical Education 310, 362; Coaching 200, 372; Athletic Training 251.
8. **Preprofessional:** For example, physical therapy. See your adviser for recommended courses.
9. **Business:** Accounting 210; Business 330, 336, 337, 338, 339, 340, 343, 344, 380 or 384, 385, 387, 386 or Communication 340.
10. **Physical Education for the Exceptional Individual:** PEX 315, 319, 335, 397, 400, 401.
11. **Sociology of Health:** Sociology 306, 308, 316, 328, 355, 363, 364, 368.
12. **Organizational Interventions:**
 - a. Nine credits from Communication 342, 378, 383, Psychology 345.
 - b. Also complete the business emphasis (above) with 9 credits selected from Business 380 or 384, 385, 387, 386 or Communication 340.
13. **Personal Trainer and Facility Management:**
 - a. Nine credits from Athletic Training 251, Physical Education 310, 362, 391, HPW 399 specific to exercise leadership such as national certification by ACSM, IDEA, NSCA.
 - b. Also complete the business emphasis (above) with 9 credits from Accounting 210, Business 330, 380 or 384.

Health Promotion/Wellness Concentration for Nonmajors

1. The health promotion concentration is designed for students pursuing a major degree outside of HPW, 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 HPW coordinator. To be accepted into the concentration you must have a 2.75 overall GPA.
2. Nonmajors may take HPW major courses if each of the following conditions are met:
 - 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: HPW 101, 102, 143, 148, 201, 204, 300, 301, 305, 320, 399, 410, 420; FN 353; Psychology 385; SHP 210, 330.

Safety and Health Protection Minor

This minor is a professional training program which encourages cross training of professionals in reducing job risks and life risks. By integrating behavior facilitation techniques with occupational safety and health knowledge and strategies, a more complete risk prevention training is possible. Concepts and skills taught in this minor are used in manufacturing, electrical, bio-tech, general business, health care, governmental and community settings by various occupational safety and health positions.

The minor consists of 18 credits:

1. Required: SHP 210, 310, 311, 330, 360.
2. Electives, 3 credits. After consulting with the SHP coordinator and your major area adviser, select from: Math 105, 109, 353; Psychology 300; Business 347; English 251; Interior Architecture 360; HPW 204, 300, 399, 420.

Academic Standards

1. You may declare a major in dietetics, or family and consumer education at any time.
2. To graduate with a major in dietetics or family and consumer education (noncertification option) you must have a 2.00 cumulative grade point average, and a 2.00 GPA in all major required courses, including transfer courses, regardless of any declaration of academic bankruptcy.
3. Health promotion requires a 2.5 GPA at the end of 30 credits, a 2.65 GPA at the end of 60 credits and 2.75 GPA in all courses to enroll for internship.
4. See the **More Academic Information** section of this catalog for the policy on repeating courses.

Test-Out Policy

The School of Health Promotion and Human Development will offer test-out for all its general degree requirement (GDR) courses: HD 261, 265, 367, 372, 381; FN 151; HPW 102, 106, 107, 142, 148. The comprehensive written examinations will be based on materials normally covered in the course. Grading will be pass/fail with the minimum passing grade equivalent to the most recent class average grade.

If you wish to take a test-out exam, first confer with the HPHD unit head. Then confer with the faculty member who most recently taught the course who will inform you in writing of the required minimum passing score prior to administering the exam and provide the results to you in writing within two weeks of taking the exam. You may take a test-out exam only once.

Master of Science Degrees

The two Master of Science degrees, Human and Community Resources and Nutritional Sciences are described in the **Graduate** section of this catalog.

Courses in Family and Consumer Education

FCE 290. Directed Study: Observation and Participation. 1 cr. Gain better understanding of role of family and consumer education economics classroom teacher; learner characteristics, instructional materials, integration with disadvantaged and handicapped learners. 1 hr class or 2 hrs observation/participation every other wk.

FCE 381/581. Course Construction for Vocational Education. 2 cr. Curriculum development for post-secondary school programs; develop a course of study, instructional package, and/or unit of instruction.

FCE 382/582. Techniques for Teaching Vocational Education. 2 cr. Techniques and materials for instructional planning and teaching post-secondary vocational education courses.

FCE 383/583. Evaluation in Vocational Education. 2 cr. Techniques for analyzing post-secondary education programs; interpret evaluation data. Prereq: Cons instr.

FCE 385/585. Introduction to Vocational Guidance. 2 cr. Occupational opportunities and statutory requirements in vocational and technical education programs.

FCE 390/590. Adult Education. 2 or 3 cr. Philosophy, history, techniques, and experiences in teaching adults.

FCE 391. Curriculum for Family and Consumer Education. 3 cr. Philosophy, curriculum, and evaluative materials for the family and consumer education program K-12.

FCE 392. Techniques for Teaching Family and Consumer Education. 2 cr. Techniques, materials, and administration for family and consumer education programs K-12.

FCE 394/594. Principles of Vocational and Technical Education. 2 cr. Philosophy, organization, and administration of vocational and technical education; emphasis on Wisconsin programs.

FCE 396/596. Cooperative Occupational Education Programs. 2 cr. Philosophy, organization, and teaching techniques for cooperative vocational programs. Prereq: Admission to the professional education program.

FCE 398. Student Teaching in K-12 Family and Consumer Education Programs. Variable cr; pass/fail. Observation and teaching in a K-12 family and consumer education environment under the guidance of cooperating teachers and university faculty.

FCE 400. Seminar on Teaching for Student/Intern Teachers. 1-2 cr. Structured group discussion on aspects of teaching that emerge during full-time field experiences. Prereq: Con reg in 398 or 498.

FCE 498. Intern Teaching. Variable cr; pass/fail. Structured field experiences in approved school programs. Interns are certified by the DPI and are employed under contract with schools to design, deliver, and assess instructional programs in grades n-k-12. Prereq: Complete all methods courses and 75% of content courses in approp major. Con reg.in approp section of Educ 400 may be required.

FCE 789. Adult Learner. 3 cr. Analysis of research and theory that applies to the formal and informal instruction of adults.

FCE 790. Workshop In Family and Consumer Education. 1-4 cr. Subtitle will designate area. May repeat for credit with different subtitles.

FCE 791. Curriculum In Family and Consumer Education. 3 cr. Trends, evaluation of programs, principles of curriculum structuring, development of teaching guides.

FCE 792. Perspectives In Family and Consumer Education. 2 or 3 cr. Critical analysis of recent developments in family and consumer education; trends in curriculum development, techniques, and materials.

FCE 793. Evaluation of Family and Consumer Education Programs. 3 cr. Techniques in the analysis of family and consumer education programs.

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 106. Introductory Foods. 3 cr. Introduction to basic physical and chemical properties of foods; interaction and reaction of food in food preparation procedures; evaluation of prepared products. 2 hrs lec, 3 hrs lab per wk.

FN 151. Contemporary Nutrition. 2 cr. Apply nutrition principles to contemporary problems in food choices and health. GDR:WL/HE

FN 246. Food Science. 3 cr. Scientific aspects of the study of foods and food composition; chemical and physical interactions of food components during processing and preparation. 2 hrs lec, 3 hrs lab per wk. Prereq: 106, 253; Chemistry 220.

FN 253. Introduction to Nutrition and Nutrient Metabolism. 3 cr. Basics for and use of nutrient recommendations and dietary guidelines; digestion, metabolism, use and interrelationships of foods and nutrients. Prereq: So st.

FN 342. Menu Planning Applications. 4 cr. Menu impact on the application of basic principles of food service management in food service, clinical and community settings. Menu planning factors including cost, convenience, nutrition, equipment, labor, food texture modifications, food assistance programs, buffet dining. Concepts of purchasing, product comparisons, recipe standardization, menu merchandising, and appropriate menu choices for therapeutic diets. 3 hrs lec, 3 hrs lab per wk. Prereq: 347, 373 or con reg.

FN 343. Introduction to Food Service. 5 cr. Basic principles of food service management for all types of commercial and noncommercial food service organizations. Impact of current social, economic, technological and political factors on food service operations. Food service facility design. 5 hrs lec per wk. Prereq: 246 or con reg.

FN 351. Elementary Nutrition. 3 cr. Individual food needs and the foods which supply those needs, especially for preschool and elementary-age children.

FN 353. Nutrition: Assessment and Program Coordination. 3 cr. Basic nutrition concepts including application to specific health-related conditions of adults.

FN 357. Ecology of Foods. 3 cr. Introduction to ecology of food and food systems. Sociocultural, political and economic influence on food choices and their environmental consequences. Overview of alterations in human diet caused by global environmental changes including climate, toxic pollution, degradation of terrestrial and marine environments, loss of species and biodiversity. Role of rapidly growing human populations, their food choices and patterns of resource use. Policies for regulation and strategies for prevention and control of problems.

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. A 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. A 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 associate dean. Credit based on scope of the project.

FN 400. Professional Issues In Dietetics. 2 cr. Didactic Program in Dietetics (DPD) prepares students for dietetic internship where they apply principles and theories to nutrition care of individuals and groups and develop skills for life-long professional learning. Prereq: Sr st.

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FN 448/648. Food Service Operational Management. 4 cr. Functional management experience in planning, organizing, implementing, directing, and controlling the laboratory cafeteria. Applied concepts in quantity food production, food safety, sanitation (HACCP), recipe standardization, nutritional analysis, cost/profit analysis, inventory management, time and temperature relationships, food delivery, cafeteria promotions and cash controls using management skills. In-service presentations on HACCP and policies and procedures. 2 hrs lec, 6 hrs lab per wk. Prereq: 342.

FN 452. Food Service Sanitation. 1 cr. Sanitation and safety in food preparation, service, storage, and handling. Prevention of microbial problems involving personnel, equipment, and the total food service operation.

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. Application of nutrition concepts in public health setting; disease prevention and health promotion; analysis of 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 nutrient use and metabolism in humans; metabolic disorders. Prereq: 373, Chemistry 260, Biology 285, or cons instr.

FN 458/658. Geriatric Nutrition. 3 cr. Nutritional problems of older individuals; changes in digestion, absorption, and utilization of food; nutritional requirements, dietary intakes, and effect of nutrition on the rate of biological aging; nutritional programs for the elderly. Prereq: 253, 351, or 353, or cons instr.

FN 462. Applied Scientific Research. 2 cr. Applied basic science and epidemiological research for the health professional. Prereq: Math 355.

FN 465/665. Nutritional Assessment and Counseling. 3 cr. In-depth study of nutrition assessment parameters used in development of 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, con reg in 455/655.

FN 490/690. Workshop. 1-4 cr. Subtitle will designate area.

FN 748. Recent Advances in Food. 3 cr. Developments in food and food science; legislation concerning food quality.

FN 749. Seminar in Food and Nutrition. 2 cr. Critical review of current research data.

FN 753. Recent Advances in Nutrition. 3 cr. Lectures, reports, and demonstrations.

FN 754. Vitamins and Minerals. 3 cr. Role of vitamins and minerals in human nutrition; research, and analysis of research. Prereq: 457; Biology 285 or cons instr.

FN 755. Maternal and Child Nutrition. 3 cr. Research basis for recommended nutrient intakes during pregnancy, lactation, infancy, and childhood; development of feeding behavior; nutrition assessment of children; problems requiring special nutrition counseling. Prereq: 253.

FN 781. Graduate Practicum, Clinical Nutrition. 4-6 cr. Experience and evaluation in cooperating health care facilities. Minimum 60 hrs on-site experience for each cr. Prereq: Cons instr.

FN 782. Graduate Practicum, Community Nutrition. 4-6 cr. Experience and evaluation in selected community health-related programs. Minimum 60 hrs on-site experience for each cr. Prereq: Cons instr.

FN 783. Graduate Practicum, Food Service Administration. 4-6 cr. Experience and evaluation in assigned food service facilities. Minimum 60 hrs on-site experience for each cr. Prereq: Cons instr.

FN 794. Readings. 1-3 cr. Independent reading and review of current literature; written reports. Prereq: Cons instr.

FN 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization.

FN 799. Thesis. 2-6 cr. Research project dealing with a specific problem in an academic area and culminating in a thesis.

Courses in Health Promotion/Wellness

HPW 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.

HPW 102. The Healthy American (formerly P ED 102). 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

HPW 106. High Level Wellness. 2 cr. Factors and strategies contributing to developing one's full potential. Assess current behaviors, set goals, plan strategies, remove obstacles, learn techniques of focusing, imagery, and selective intensive practice. GDR:WL/HE

HPW 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 and specific academic and experiential in-depth coverage of one or two dimensions. Connections will be made with each of the other dimensions. Subtitle will designate focus. May repeat for credit with different subtitles. GDR:WL/HE

HPW 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

HPW 126. Introductory Teaching Skills in Health Promotion. 2 cr. Aerobic conditioning, weight training, health-related fitness assessment, programming and exercise leadership.

HPW 142. Mindful Meditation. 2 cr. Philosophical foundations of mindful meditation; explore meditation as means to personal stress management; incorporate yoga as part of meditation; begin personal meditation practice. GDR:WL/HE

HPW 143. Focusing Your Mind. 3 cr. A three-part class to learn hatha yoga, mindful meditation, and self-hypnosis. GDR:WL/HE

HPW 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

HPW 149. Personal Wellness for Nontraditional Students. 2 cr. Provides wellness programming and individualized health behavior change opportunities in the areas of exercise, nutrition, and stress management for the nontraditional student. GDR:WL/HE

HPW 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.

HPW 204. Behavior Change Facilitation. 3 cr. Beginning skills in health counseling: data interpretation, goal setting, attending, encouraging, challenging, planning strategies for health promotion/protection. Prereq: HPW major, safety or nutrition minor, or cons instr.

HPW 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

HPW 300. Health Promotion/Protection Programming: Design, Techniques, and Resources. 3 cr. Develop skills in designing program objectives, using educational techniques, and selecting resources appropriate to needs of group. Integrate educational process into behavior change process. Prereq: HD 265 and acceptance into HPW major or cons instr.

HPW 301. Wellness Retreat for Preprofessionals. 1 cr. Participate in an optimal wellness retreat with emphasis on emotional and social well-being, group dynamics, and facilitating group interaction. Prereq: Cons instr.

HPW 305. Epidemiological Factors in Health Promotion/Protection. 3 cr. Content areas: understanding strategy documents developed for prevention and control of the nation's health objectives; pathophysiology, morbidity, and mortality of the 10 leading work-related health problems; use of epidemiological principles to analyze risk and recommend appropriate prevention and control intervention strategies. Prereq: Biology 285, cons instr; SHP 210 if in the safety and health protection minor.

HPW 312. Exercise Physiology (formerly P ED 312). 3 cr. Effects of exercises on speed, strength, skill and endurance; nature of muscular behavior, fatigue; effects of exercise with respect to nutrition, age, sex, and occupation. Prereq: 126 or Physical Education 200/201, Biology 285, cons instr.

HPW 320. Developing Stress Management Programs. 3 cr. Strategies for reduction of stressors and subsequent enhancement of health/wellness through time management, assertiveness training, and relaxation techniques. Assessment, prescription, and program development. Prereq: Acceptance into HPW major or cons instr.

HPW 340. Reading, Writing, Computing and Presenting in Health Promotion. 3 cr. Review the basic literature in the field, 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: Admission to major.

HPW 360. Practicum in Health Promotion/Wellness. 1-6 cr; pass/fail. Practical experience as a preprofessional in health promotion/ protection, with an emphasis on behavior change facilitation and health promotion/protection. Special sections offered each semester. Prereq: Cons adviser.

HPW 399. Special Work. 1-3 cr. Upperclass health promotion majors and graduate students may arrange for independent study after defining learning objectives of project and getting approval of faculty sponsor. Credit based on scope of project. Prereq: Cons instr and HP director.

HPW 401. The Health Promotion Professional. 1 cr; pass/fail. Transition from student to professional; prepares you to enter internship and job market. Must take last semester before internship.

HPW 410. Promoting and Marketing Wellness. 3 cr. Assessment of market opportunities in wellness services, programs, and facilities. Development of marketing and promotional strategies that will increase the customer base, provide incentives for behavioral change and enhance revenues for wellness programs, services and facilities. Prereq: 300, 312, 320, FN 353, or cons instr.

HPW 420. Health Promotion/Protection Management. 3 cr. Development of health promotion/ protection programs for community and worksite settings. Assessment, evaluation, program design, and program development. Health promotion/protection strategies for individuals and organizations. Prereq: HPW 300, 312, 320, FN 353 or cons instr.

HPW 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 the experience and time commitment. Special sections offered each semester. Prereq: Cons instr.

HPW 440/640. Health Behavior Change. 2-3 cr. Explore the need for behavior change; correlation of behavior change with reduced illness risk and reduced health care costs. Transtheoretical model of behavior change and associated research.

HPW 450. Internship in Health Promotion/Wellness. 12 cr; pass/fail. A full semester participation in a community or worksite health promotion/protection setting. Prereq: Completion of ALL coursework; a 2.75 cum GPA; certification in First Aid and CPR.

HPW 460. People and Ecosystems. 4 cr. Interactions between people and ecosystems and the dependency of the health and sustainability of each upon the other. May not earn credit in both HPW 460 and Natural Resources 460. Prereq: Jr or sr st; application and cons instr.

HPW 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 difficult process.

HPW 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.

HPW 490/690. Contemporary Issues in Health Promotion. 1-3 cr. Possible titles include: 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.

HPW 715. Advanced Physiology for Health Care Professionals (formerly P ED 715). 3 cr. Examination of exercise physiology parameters as they relate to health care for all ages.

Courses in Human Development

HD 100. Home Economics in Contemporary Society. 1 cr; pass/fail. Introduction to history and development of the home economics profession; investigation of related careers and the meaning of professional development.

HD166. The Family: Continuing Concerns. 3 cr. Examination of research and theory that relates to complex concerns families face over time.

HD 261. Child Growth and Development. 3 cr. Concepts and current research findings applied to the study of growth and development of normal children, from conception through adolescence within the context of the family. Prereq: Psychology 110. GDR:SS2

HD 265. Human Growth and Development: A Life-Span Approach. 3 cr. Concepts, principles, and current research findings applied to the study of growth and development from conception through death in the context of family. Includes physical/health-related issues. Prereq: Psychology 110 or cons instr. GDR:SS2

HD 360/560. Infant and Toddler Development. 3 cr. Human development through 2 1/2 years; implications for parents and early childhood education programs; observations.

HD362. Adulthood: A Developmental Approach. 3 cr. Examination of current literature related to development from early adulthood to death. Implications for professionals in the field of family studies. Practicum required.

HD 367. Family Structure and Interaction. 1-3 cr. Family functions; variations in family organization and relationships; apply principles to family decision-making during different stages of the life cycle. Prereq: Sociology 101 or Psychology 110, or cons instr. GDR:SS2 & PE/HE

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. GDR:SS2

HD 381. Families and the Environment. 3 cr. Study of the family and the environment and the reciprocal relationships between the two systems. GDR:EL

HD 395. Field Experience. 3 or 4 cr. A supervised program at a cooperating business site. 1 hr seminar per wk for 1 cr, plus a minimum of 40 hrs at business site for each additional cr. May repeat for 9 cr max. Prereq: Cons instr.

HD 397. Field Work. 1-8 cr. A supervised training work program in a cooperating off-campus establishment; work experience and supervision followed by an evaluation of individual progress.

HD 399. Special Work. Upperclass early childhood education and family and consumer education majors may arrange for independent study with cons associate dean. Credit based on scope of the 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. Application to home and school environments.

HD 468. Issues in Human Development. 1 or 2 cr. Identify and examine child and family development issues; apply developmental theory and current research to issues. Second credit includes practicum. Prereq: Sr st and early childhood education major; or cons instr.

112 Health Promotion & Human Development

HD 486. Family Resource Management. 3 cr. Examine various perspectives on how families manage human and nonhuman resources.

HD 490/690. Workshop. 1-4 cr. Subtitle will designate area.

HD 700. Trends. 3 cr. New developments in human development; implications in research for individual and family needs.

HD 701. Workshop. 3 cr. Subtitle will designate area. May repeat for credit with different subtitles.

HD 702. Special Topics. 1-3 cr. Subtitle will designate human development topic. May repeat for credit with different subtitles.

HD 760. Family and Community Wellness. 1-3 cr. Study factors which affect the well-being of individuals within the context of family and community. May be offered in 1 cr modules with subtitles.

HD 761. Contemporary Problems in Human Development. 1-3 cr. Apply current research and theory to practical problems affecting children and families. May be offered in 1 cr modules with subtitles.

HD 763. Theory to Practice in Human Development. 3 cr. In-depth investigation of selected developmental theories. Apply theoretical concepts to solve problems facing children and families. Prereq: 261 or Psychology 260 or cons instr.

HD 764. Family and Parent Education. 3 cr. Examination of various perspectives of family and parent education programs: course content, teaching strategies, assessment procedures, and resource materials.

HD 765. Issues in Family Living. 2 or 3 cr. Investigate current literature to determine issues affecting the nature and variability of the family.

HD 766. Children and Families in Contemporary Society. 3 cr. Examination of current and emerging views, theories, policies, and practices relating to children and families; society's obligations and efforts to address needs.

HD 767. Family Crises. 3 cr. Impact of crisis on family systems and individual members; support, referral techniques. Prereq: 367 or Sociology 468/668 or equiv.

HD 768. Community Relations and Resources. 3 cr. Investigation of the contexts in which humans develop, their relationships, and the availability of community resources.

HD 769. Seminar in Human Development and Family Relationships. 3 cr. Critical review of current research.

HD 771. Current Problems in Family Economics. 2 or 3 cr. The family role in the changing economy; providing for family financial security; individual problems.

HD 779. Seminar in Home Management and Family Economics. 3 cr. Critical review of current research.

HD 780. Seminar in Human and Community Resources. 1 cr. Critical review of current research. Prereq: Cons instr.

HD 782. Practicum. 1-8 cr. Professional experience in an organization, agency, and/or institution related to the student's career goals.

HD 794. Readings. 1-3 cr. Independent reading and review of current literature; written reports. Prereq: Cons instr.

HD 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization.

HD 797. Graduate Project. 2-4 cr. Identify, select and complete a problem/project in early childhood, human development, food service, family and consumer education, or food and nutrition, culminating in a final paper.

HD 798. Research. 3 cr. Define problems and issues; examine research; plan experimental investigation.

HD 799. Thesis. 2-6 cr. Research project dealing with a specific problem in an academic area and culminating in a thesis.

Courses in Safety and Health Protection

SHP 210. Introduction to Health Protection. 3 cr. Introduction to the occupational health and safety field and basic principles of safety and industrial hygiene. Exposure to concept of cross training, job risks and life risks, and the professional connections between occupational safety and health, and health promotion.

SHP 310. Industrial Hygiene and Health Protection. 3 cr. Emphasizes principles of industrial hygiene and health promotion to reduce combined risks of illness and injury for employees at the work site. Prereq: SHP 210 and HPW 305.

SHP 311. Safety and Health Hazard Control. 3 cr. Knowledge and application of safety engineering and management of principles to minimize injury/illness-producing hazards in the work place. Prereq: SHP 210 and HPW 305.

SHP 330. Environmental Wellness. 3 cr. Insights into individual, organizational and societal activities which affect the health of the natural environment. How society, organizations and individuals impact their natural environment. How to minimize identified threats to the health of that environment. Promote intellectual consumerism and citizen advocacy. GDR:EL

SHP360. Practicum in Health Protection. 1-3 cr. Apply advanced occupational safety and health intervention strategies, and elucidate the logical crossover of health protection and worksite health promotion. Topics may include disaster preparedness, workers' compensation issues, hazard evaluation and control, safety engineering issues, accident investigation, worksite walk-throughs and documentation, occupational safety and health ethics and professionalism, and ergonomics. Prereq: 310, 311, or cons instr.



History

(College of Letters and Science)

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Faculty: S Brewer, S Elkind, M Foret, T Kaminski, S Kent, N Lewis, N LoPatin-Lummis, P Mertz, J Paul, V Peguero-Lawlor, S Pistono, J Roberts, W Skelton, H Walker, T Wick, E Yonke.

Freshman History Course Options

1. History 105, 106, 107, 108 is a four-semester sequence which allows you to concentrate on specific periods in European history:
 - a. History 105-106: two-semester survey of ancient and medieval civilizations.
 - b. History 106-107: two-semester survey of medieval-early modern civilizations, from late antiquity to the 19th century.
 - c. History 107-108: two-semester survey of modern European civilization, from the 16th century to the present.
2. History 120, 130(MNS): minority and ethnic groups.

History Major

Consists of a minimum of 36 credits:

1. Twelve credits from basic courses: 3 to 6 credits selected from each area:
 - a. European: 105, 106, 107, 108.
 - b. Non-Western: 215, 216, 219, 220, 253, 254.
 - c. United States: 211, 212.
2. History 290.
3. Eighteen credits from advanced courses: at least 3 credits from each area:
 - a. **European:** 302, 304; 305, 306, 307, 308, 309, 313, 315, 316, 321, 322, 323, 324, 325, 330, 331, 332, 339, 340, 380.
 - b. **Non-Western:** 318, 319, 329, 337, 338, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353.
 - c. **United States:** 356, 357, 358, 359, 360, 366, 368, 369, 371, 372, 373, 374, 375, 377, 378, 379(MNS), 380, 382(MNS), 383, 384(MNS), 385(MNS), 389.
4. History 489 or 490.

History Major with Concentration in Minority and Ethnic Studies

Consists of at least 46 credits:

1. Six credits from History 120, 130(MNS), 288(MNS).
2. History 211, 212.
3. Six credits from 105, 106, 107, 108.
4. At least 18 credits distributed as follows:
 - a. Nine credits from History 379, 382, 384, 385, 388 (all MNS).
 - b. Six credits from History 313, 316, 327, 338(NW), 340(NW), 346(NW), 348(NW), 352(NW), 353(NW).
 - c. One credit of History 399, arranged with adviser.
 - d. History 489 or 490.
5. At least 10 credits from the following courses outside the discipline of history, but no more than 6 credits may be taken in any one category.
 - a. Humanities: English 240, 280, 282, 382; Music 102; Spanish 382(MNS).

- b. Social Science: Anthropology 339, 371; Geography 373; Political Science 309, 312, 315; Sociology 270, 305, 490 (with appropriate subtitle).

History Minor

Consists of at least 21 credits distributed as follows:

1. Twelve credits from basic courses: at least 3 credits selected from each area:
 - a. European: History 105, 106, 107, 108.
 - b. United States: History 211, 212.
 - c. Non-Western: History 215, 216, 219, 220, 253, 254.
2. Nine credits of 300-400 level history courses.

History Minor for Teacher Certification

Consists of 24 credits:

1. Twelve credits from basic courses as follows:
 - a. European, 3 credits from History 105, 106, 107, 108.
 - b. United States, History 211, 212.
 - c. Non-Western, 3 credits from History 215, 216, 219, 220, 253, 254.
2. History 290.
3. Nine credits of 300-400 level history courses (3 credits each from European, U.S., and non-Western).

History Honors Program

The history honors program provides additional opportunity and challenge to students interested in the intellectual stimulation offered by the program. To graduate in the history honors program:

1. Have a 3.5 GPA.
2. Complete the requirements for a history major or minor.
3. Prepare an honors program with your honors adviser and get it approved by the History Department Curriculum and Planning Committee.
4. Complete a minimum of 9 upper division history major credits including:
 - a. History 495, 6 credits. This can apply toward the requirements for the history major.
 - b. An additional special project as part of History 489 or 490.
 - c. OR 3 credits of special work in an approved upper division course.

Academic Standards

1. To graduate with a major or minor in history you must have a cumulative GPA of 2.00 (2.75 to student teach) in all courses required for the major or minor, including transfer courses, regardless of any declaration of academic bankruptcy. See the **More Academic Information** section of this catalog for the policy on repeating courses.
2. All courses in history, except History 489 and 490, are open to all students who meet the prerequisites.
3. **Teacher Certification:** Enrollment caps are in effect for those seeking teacher certification in history. Please 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.
4. No more than 6 credits of History 399 may be accepted toward the major or minor in history.

Test-Out and Credit-by-Exam Policy

You may test-out and/or receive credit-by-exam for all general degree requirement (GDR) history courses.

You may receive credit-by-exam for History 105, 106, 107, 108, 211 and 212 by passing the appropriate Advanced Placement Program Examination (AP) or CLEP (College Level Examination Program) Subject Examination through the UWSP Testing Service. The minimum score for an AP exam is 3 and for CLEP it is the 50th percentile.

To test-out but not receive credit for all other GDR history courses, first consult with the department chair. A comprehensive written exam based on materials normally covered in the course will be administered by the faculty member who teaches the course. The minimum required score for all such exams is a B- or its numerical equivalent. You may take an exam for credit or test-out only once.

Courses in History

The * indicates that these topical courses may be repeated for credit with different subtitles.

HIST 105. Ancient History. 3 cr. Ancient Near East, Greece, and Rome. GDR:HI

HIST 106. Medieval History. 3 cr. Europe and the Mediterranean world, 4th to 16th centuries. GDR:HI

HIST 107. Early Modern European History. 3 cr. 16th to 19th centuries. GDR:HI

HIST 108. Modern Europe. 3 cr. 19th and 20th centuries. GDR:HI

HIST 120. Ethnic Groups in Europe. 3 cr. Modern European ethnic and cultural groups; origins, accomplishments, current trends. GDR:HI BS BM/FA

HIST 130(MNS). Racial and Ethnic Groups in the United States. 3 cr. Origins, accomplishments, current trends. GDR:HI BS BM/BFA

HIST 198. Reading in the Discipline. 1 cr; pass/fail. Does not apply to history major or minor. Prereq: Con reg in another designated 3 credit history course.

HIST 211. United States to 1877. 3 cr. Prereq: So st. GDR:HI

HIST 212. United States Since 1877. 3 cr. Prereq: So st. GDR:HI

HIST 215(NW). East Asian Civilization to 1800. 3 cr. Traditional cultures, religions, thought, and institutions of China, Korea, Japan, and Vietnam. GDR:HI BA; HU4 BS

HIST 216(NW). East Asia Since 1800. 3 cr. China, Korea, Japan, and Vietnam; imperialism, modernization, nationalism, revolutions, and independence struggles. GDR:HI BA; HU4 BS

HIST 219(NW). Middle East to 1798. 3 cr. Middle Eastern peoples and religions; Islamic civilization, culture, traditions, and institutions from the time of Muhammad to 1798. GDR:HI BA; HU4 BS

HIST 220(NW). Middle East Since 1798. 3 cr. Middle Eastern political, social, and economic problems: confrontation with European imperialism, the impact of two world wars; creation of independent states; development of Arab-Israeli conflict, impact of oil, and the resurgence of Islam. GDR:HI BA; HU4 BS

HIST 225. Southeast Asia. 3 cr. Survey of the traditional cultures of Southeast Asia; the establishment of Western colonial rule; the development of independent national governments; decolonization. Offered only in overseas programs. Prereq: So st or cons chair.

HIST 253(NW). Colonial Latin America. 2 or 3 cr. European discoveries to independence. Prereq: So st. GDR:HI BA; HU4 BS

HIST *254(NW). Latin American Issues. 1-3 cr. Problems and issues in 19th and 20th century Latin American history. Subtitle will designate topic(s). Prereq: So st. GDR:HI BA; HU4 BS

HIST 260. Modern Global Environmental History. 3 cr. Cultural, social, economic and political influences on the environment worldwide. Topics include imperialism, industrialism and modern environmentalism.

HIST 274/374. United States Military History. 3 cr. Role of the military in American life; colonial period to the present. May earn credit in only one of 274, 374 or Military Science 212. Prereq: So st.

HIST 288/388(MNS). Wisconsin Indians. 3 cr. Topics in history and culture of Indians of Wisconsin and neighboring areas. May repeat with different subtitles. May not earn credit in both 288 and 388 except under different subtitles. GDR:HU4 BS

HIST 290. Selected Historical Problems: Sophomore Seminar. 3 cr. Subtitle will designate topic. Prereq: So st and major or minor in history or broad-field social science; or so st and cons instr.

HIST *291/391. Contemporary Historical Problems. 1-3 cr. Subtitle will designate topic(s). Prereq: So st.

HIST 302/502. Western Culture. 3 cr. Roman period to contemporary times. Topics will be announced. Offered only in UWSP overseas programs. GDR:HU4 BS

HIST 303/503. Topics in History and Literature. 1-3 cr. Introduction to historical age or culture by the study of the literature of the period. Subtitle will designate topic.

HIST 304/504. Ancient Greece. 3 cr. GDR:HU4 BS

HIST 305/505. Ancient Rome. 3 cr. GDR:HU4 BS

HIST *306/506. Studies in Antiquity. 2 or 3 cr. Subtitle will designate topic(s). GDR:HU4 BS

HIST 307/507. Medieval Europe. 3 cr. 4th to 12th centuries. GDR:HI BA

HIST 308/508. Medieval Europe. 3 cr. 12th to 16th centuries. GDR:HI BA

HIST *309/509. Medieval Studies. 3 cr. Subtitle will designate topic. GDR:HU4 BS

HIST 312. Regional History. 3 cr. History informed by visits to historic locations and cultural centers with appropriate study and writing. Subtitle will designate focus(es). Offered only in UWSP overseas programs. GDR:HU4 BS

HIST 313/513. Women in European History. 2 or 3 cr. From the Middle Ages to the present. GDR:HU4 BS

HIST 315/515. The Renaissance. 2 or 3 cr. 14th and 15th century Europe. GDR:HU4 BS

HIST *316/516. The Reformation. 1-3 cr. Subtitle will designate topic(s) in 16th and 17th century European history. GDR:HU4 BS

HIST 318/518(NW). The Arab-Israeli Conflict. 3 cr. The origins, development, and consequences of the Arab-Israeli conflict. GDR:HU4 BS

HIST 319/519(NW). Oil and Politics in the Middle East. 3 cr. The impact of natural resource development, especially oil, in the modern Middle East. GDR:HU4 BS

HIST *321/521. European Social and Intellectual History. 3 cr. Subtitle will designate topic(s). GDR:HU4 BS

HIST 322/522. Western Europe in the 17th Century: Crisis and the Search for Order. 3 cr. From the wars of religion to absolutism; constitutional crises; the scientific revolution; Baroque culture; the worlds of Galileo and Newton.

HIST 323/523. Western Europe in the 18th Century:

Enlightenment and Revolution. 3 cr. From Louis XIV to Napoleon; the ancien régime; the Seven Years' War; the worlds of Voltaire and Adam Smith; the French Revolution.

HIST 324/524. Western Europe in the 19th Century: The Age of European Hegemony (dominance). 3 cr. From the Napoleonic Wars to the eve of World War I; romanticism; nationalism; industrialization and European imperialism; the worlds of Marx and Darwin; Victorian culture.

HIST 325/525. Western Europe in the 20th Century: Conflict and Transformation. 3 cr. From World War I to the end of the Cold War; Fascism; Nazism; World War II; the worlds of Churchill and de Beauvoir; collapse of European imperialism; rise and fall of the Iron Curtain; European union.

HIST 329/529(NW). History of Yugoslavia. 3 cr. 1918 to the present.

HIST 330/530. Modern Germany. 3 cr. German culture, society, and institutions, 18th century to the present. GDR:HI BS BM/BFA

HIST 331/531. England to the 18th Century. 3 cr. English culture, society, and institutions, in the medieval and early modern eras. GDR:HI

HIST 332/532. Modern Britain. 3 cr. British culture, society, and institutions, from the 18th century to the present. GDR:HI

- HIST 335. History of Germany Since 1871.** 3 cr. Offered only in overseas programs. Topics selected by instructor of the overseas campus.
- HIST 336. Selected Topics in the History of Poland.** 3 cr. Offered only in the overseas program. Topics selected by the instructor of the overseas campus.
- HIST 337/537(NW). Russian History and Civilization.** 3 cr. 10th century to 1917. GDR: HI BA; HU4 BS
- HIST 338/538(NW). Soviet Union.** 3 cr. 1917 to the present. GDR:HI BA; HU4 BS
- HIST 339/539. Hapsburg History, 1526-1918.** 3 cr. From the creation of the imperial idea to the collapse of empire in 1918. GDR:HI BA, BM/BFA; HU4 BS
- HIST 340/540(NW). Eastern Europe in the 20th Century.** 3 cr. Democracy, nationalism, fascism, and communism in Eastern Europe after 1918. GDR:HI BA BM/BFA; HU4 BS
- HIST 341/541(NW). Topics in Russian History.** 3 cr. Subtitle will designate topic(s). May repeat under different subtitles. GDR:HU4 BS
- HIST 344/544(NW). The Mongols.** 3 cr. Nomadic cultures, religions, societies; Chinggis Khan; Mongol Empire; impact on Eastern Europe, Middle East, Asia; 12th to 16th centuries. GDR:HU4 BS
- HIST 345/545(NW). Chinese Civilization to 1644.** 3 cr. Culture, religion, thought, institutions, technological achievements; feudalism; Confucianism; gentry society; Buddhism; foreign influences. GDR:HI BA; HU4 BS
- HIST 346/546(NW). China Since 1644.** 3 cr. Conflicts with the West; modernization; revolutions; transition to communism; contemporary developments. GDR:HI BA; HU4 BS
- HIST 347/547(NW). Japanese Civilization to 1868.** 3 cr. Culture, religion, thought, institutions; Chinese influences; Buddhism; feudalism; unification, shogunal controls, national isolation. GDR:HU4 BS
- HIST 348/548(NW). Japan Since 1868.** 3 cr. Modernization; world-power status; imperialism, militarism, totalitarianism; postwar recovery, economic and technological supremacy. GDR:HU4 BS
- HIST 349/549(NW). Korean Civilization to 1800.** 3 cr. Culture, religion, thought, institutions, technological achievements; pivotal role in East Asia; Buddhism; unification; invasions; Confucianism. GDR:HU4 BS
- HIST 350/550(NW). Korea Since 1800.** 3 cr. End of isolation; power rivalries; Japanese annexation; independence, division, Korean War; postwar development. GDR:HU4 BS
- HIST 351/551(NW). Vietnamese Civilization.** 3 cr. Culture, religion, thought, institutions; invasions, colonialism, cultural survival, independence struggles; earliest times to the present. GDR:HU4 BS
- HIST 352/552(NW). Modern Latin American History and Culture.** 3 cr. Analysis of political, socio-economic and cultural changes from independence to the present. GDR:HU4 BS
- HIST 353/553(NW). Topics in Latin American History.** 1-3 cr. Subtitle will designate topic. GDR:HU4 BS.
- HIST 355. Canadian History.** 3 cr. From discovery to the present; political, social, economic, diplomatic, demographic history; and relations to the U.S. Prereq: Jr, sr, or grad st.
- HIST 356/556. Early America to 1763.** 3 cr.
- HIST 357/557. Revolutionary America 1763-1815.** 3 cr.
- HIST 358/558. Era of the Civil War 1815-1877.** 3 cr.
- HIST 359/559. Rise of Modern America 1877-1939.** 3 cr.
- HIST 360/560. Recent America Since 1939.** 3 cr.
- HIST 366/566. American Environmental History.** 3 cr. The occupation and exploitation of a continent—mercantilism to industrialism, criticisms of the effects of material progress (19th century), conservation and preservation (20th century). GDR:HI BS BM/BFA and EL
- HIST 368/568. The American West.** 3 cr. Political, social and environmental history of westward expansion in the 19th and 20th centuries. GDR:EL
- HIST *369/569. The American South.** 3 cr. Subtitle will designate topic(s).
- HIST *371/571. United States Economic History.** 3 cr. Subtitle will designate topic(s).
- HIST *372/572. United States Constitutional History.** 3 cr. Subtitle will designate topic(s).
- HIST 373/573. American Foreign Relations.** 3 cr. Subtitle will designate topic. GDR:HI BS BM/BFA
- HIST 375/575. American Popular Culture.** 3 cr. Survey of changing popular American values and ideas embodied in mass-produced texts and leisure time activities from the 17th century to the present.
- HIST 377/577. American Society and Thought to 1870.** 3 cr. Analysis of changes in the thought, culture, and social structure of America from its settlement until 1870. GDR:HI BA; HU4 BS
- HIST 378/578. American Society and Thought Since 1870.** 3 cr. Analysis of changes in the intellectual life, culture, and social structure of the United States since 1870. GDR:HI BA; HU4 BS
- HIST 379/579(MNS). Afro-American History and Culture.** 3 cr. Role and contribution of Afro-Americans to the culture and society of the United States. GDR:HU4 BS
- HIST 380/580. Science and Religion in Europe and America Since 1500.** 3 cr. Analysis of the changing relationship between science and the Judaeo-Christian tradition in Europe and North America from 1500 to the present.
- HIST 381/581(MNS). Slavery in the Americas.** 3 cr. Slavery and slaveholding societies in the British North America, the United State, the Caribbean, and Latin America (including Brazil) from the 16th through the 19th centuries.
- HIST 382/582(MNS). The North American Indian.** 3 cr. Earliest times to the present. GDR:HU4 BS
- HIST 383/583. American Labor History.** 3 cr. American workers; colonial times to the present. GDR:HU4 BS
- HIST 384/584(MNS). Women in American History I: Colonial to Antebellum.** 3 cr. Prereq: 211 recommended.
- HIST 385/585(MNS). Women in American History II: 19th and 20th Centuries.** 3 cr. Prereq: 212 recommended.
- HIST 386. Women's Rights and Feminism in the United States.** 3 cr. From the American Revolution through contemporary feminist issues, emphasizing woman's rights movement in the antebellum period, the push for woman suffrage after the Civil War, the emergence of modern feminism in the early 20th century, and the subsequent varieties of feminism that have developed.
- HIST 389/589. Wisconsin.** 2 or 3 cr. 1634 to the present.
- HIST *392. Topics in Christian Church History.** 1-3 cr. Subtitle will designate topic(s). GDR:HU4 BS
- HIST 393/593. The Holocaust.** 3 cr. Causes and consequences in modern European history. GDR:HU4-BS
- HIST *394. Topics in Environmental History.** 1-3 cr. Subtitle will designate focus. GDR:EL
- HIST 397. Reading Adjunct Practicum.** 1 cr, pass/fail. Upper-class history and broad-field social science majors and minors may participate and run discussion groups for introductory history surveys. Prereq: Cons instr.
- HIST 399. Special Work.** Upperclass history majors and minors may arrange for independent study with cons chair. Credit will be based on the scope of the project. May count 6 cr max for major or minor.
- HIST 489. Great Historians and the Sense of History: Seminar.** 2 or 3 cr. The great historians and their conceptions of history based on readings from their works; includes historiography and methodology. Prereq: Sr st and history major or minor, or sr st and cons chair.
- HIST 490. Selected Historical Problems: Seminar.** 2 or 3 cr. Subtitle will designate topic(s). Attention given to historiography and methodology. Prereq: 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 directing faculty member. Normally accomplished over two semesters. Six credits required to graduate from history honors program. Prereq: Acceptance into history honors program.
- HIST 762. Readings and Problems in History.** 3 cr. Reading seminar focused on a specific historical period and/or topic. Subtitle will designate focus.

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HIST 780. Historical Method. 3 cr. Securing and evaluating historical evidence; construction of historical papers based upon various kinds of source materials.

HIST *782. Seminar in American History. 3 cr. Subtitle will designate topic(s).

HIST *784. Seminar in European History. 3 cr. Subtitle will designate topic(s).

HIST *786. Seminar on Non-Western History. 3 cr. Subtitle will designate topic(s).

HIST 788. Seminar in North American Indians. 3 cr.

HIST *790. Historical Issues Workshop. 1-6 cr. Reading, discussion, analysis workshop for elementary or secondary school teachers. Subtitle will designate theme(s).

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

HIST 799. Thesis. 2-6 cr.

For more course listings in history, see the *Latent Course List* at the end of this section.

HOME ECONOMICS

See *Health Promotion and Human Development*, and *Interior Architecture*.



Individually Planned Major (IPM)

Richard Barker, Coordinator
Room 302, Collins Classroom Center
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The individually planned major is for you if you are one of the few students who cannot meet your educational objectives through an existing academic program. It gives you an opportunity to design your own major using unique combinations of existing offerings that will be coherent and challenging. You must plan your program by the end of your sophomore year to be sure the courses you need are available and can be integrated into your major. The individually planned major is not intended to permit you to package courses that you have already completed.

For the individually planned major, you must:

1. Have a minimum grade point average of 2.50, regardless of academic bankruptcy, before you enter the program.
2. Meet the requirements for the bachelor's degree in the college which offers the greatest number of credits within the major.
3. Earn at least 40 credits within the degree in courses numbered 300 and above.
4. Have a minimum grade point average of 3.00 in all courses in your individually planned major to graduate.

You must decide to begin an individually planned major no later than the second semester of your sophomore year, or by the time you complete no more than 64 credits, excluding the wellness requirement. This requirement can be waived in some cases.

You will have to develop a proposal for your major by consulting with advisers from the departments in which you will be doing the work. The proposal must include a title, a statement of the objectives of the program, and a list of specific courses. The program must be approved by your advisers, the IPM coordinator, and the IPM committee.

Individually Planned Major

Consists of:

1. A minimum of 36 approved credits taken from no fewer than two curricular areas, with a minimum of 9 credits in each.
2. At least 20 credits must be in courses numbered 300 or above.
3. You may NOT repeat courses in which you originally earned a grade of D or better.

Contact the IPM coordinator for full details.

Instructional Resources

(College of Professional Studies)

Larry L. Riggs, Coordinator
 Room 338B, College of Professional Studies Building
 Phone: 715-346-4436
 E-mail: lriggs@uwsp.edu

Faculty: B. Kirgy, L. Riggs, S. Strupp.

Courses in Instructional Resources

IRES 321. General Cataloging and Classification. 4 cr. Theory and practice of cataloging and classification of book and nonbook materials; emphasis on Dewey Decimal Classification and Sears Subject Headings, with an introduction to Library of Congress classification and subject headings. Prereq: Cons instr.

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 325. Organization and Supervision of the Learning Resources Center. 3 cr. The function of the Learning Resources Center in the school; responsibilities of the center in carrying out aims of curricular and extracurricular programs; problems of administration, budget, physical facilities, and standards of service. Prereq: Cons instr.

IRES 331/531. Audiovisual Media. 3 cr. Selection and use of pictures, slides, motion pictures, tapes, maps, radio, and television in the communication process; self-instructional laboratory work in operating equipment and producing materials.

IRES 332. Local Production of Media. 3 cr. Techniques for planning and producing slides, filmstrips, video and audio tapes, and multimedia presentations. Prereq: 331, or cons instr.

IRES 341. Educational Trends in Visual Media. 3 cr. Application of newer technologies including microcomputers, video discs, holography, and videotext-teletext to visual communication in education; analysis of social impact, current applications, and future of these educational technologies.

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 in operation of learning resources functions under the supervision of cooperating instructional media personnel. May earn practicum credits as part of requirements for Educ 398, or as arranged by coordinator.

IRES 396. Field Experience. 2-5 cr. Practical experience in a public, academic or special library, in the operation of learning resource functions, under the supervision of cooperating media personnel. NOT for education majors or those seeking Department of Public Instruction certification as public school media persons. Prereq: Cons coordinator.

IRES 399. Special Work. Instructional resources minors may arrange for independent study with cons coordinator. Credit based on scope of the project. May apply 2 cr max to minor.

IRES 711. Design and Use of Individualized Instruction Materials. 3 cr. Apply research findings from learning and behavioral psychology to the design and use of materials and methods for individualized instruction. Prepare, field test, and revise a short individualized learning sequence. Prereq: Psych 375/575 or equiv.

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 721. Television Use in Schools. 3 cr. Techniques for using educational television programs in large group, small group, and individualized instruction. Prereq: Experienced teacher.

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)

Kathleen Stumpf, Associate Dean and Head of the
 Division of Interior Architecture and Retail Studies
 Room 101, College of Professional Studies Building
 Phone: 715-346-4600

E-mail: kstumpf@uwsp.edu
<http://www.uwsp.edu/acad/iars/iarspage.htm>

Program Adviser, Lynn Gilles

E-mail: lgillis@uwsp.edu

Faculty: MA Baird, T. Brown, L. Gilles, K. Hennick, P. Kluetz, MSC Nelson, K. Stumpf, P. Williams, D. Zimmerman.

The UW-Stevens Point Interior Architecture Program provides a learning environment that encourages the development of professional designers with the ability to design quality interior environments which contribute to the well-being of individuals and groups. Sophomore and senior portfolio reviews are required to promote excellence in the program.

While in the program, you interact with design professionals through regional, national, and international field trips and through design critiques. You are given typical client problems and solve them through problem-based learning strategies. As you progress through the curriculum, problems expand in complexity and involve realistic constraints, user requirements, budgets, and schedules.

When you graduate from the Interior Architecture Program, a variety of professional opportunities are available to you such as office, residential, retail, and hospitality design and facility management. Other possibilities include product development and representation for manufacturers and design consultation.

Interior Architecture Major (IA)

1. Sixty-five credits:
 - a. IA 100, 101, 110, 204, 205, 211, 212, 216, 233, 300, 309, 311, 314, 318, 370, 390, 391 (1 cr), 395 (3 cr), 400, 411, 412, 430.
 - b. Eight credits from interior architecture, art, or Forestry 385 (landscape architecture).
2. Nine credits: Art 102, 103, 282 or 283.
3. Psychology 110 and 3 credits of sociology or anthropology to satisfy part of the general degree requirements.
4. **Emphasis in lighting design or store design (optional):** IA 318, 418, 305, 405.
5. During the first semester of the sophomore year a faculty committee reviews the portfolio to determine admission to the interior architecture professional sequence. The review is based on a minimum of three examples of work completed in each of the following courses: Art 102 and 103, IA 101, 110, 204, and 211. The outcome of review will be:
 - a. *Passed:* successful admission.
 - b. *Probationary acceptance:* accepted on probation with expectation of removing deficiencies. Second review upon completion of IA 205, 212, 216, 370.

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- c. *Detained*: denied admission. May repeat courses and/or independently improve portfolio for re-evaluation.

The sophomore review may be repeated one time only. If we need to limit the number of students we admit to the professional sequence and your portfolios are determined to be of equal quality, the student(s) with the higher cumulative grade point average will be admitted.

6. Junior and senior interior architecture majors must participate in an annual one day design problem.
7. **Nonmajors** may enroll in Interior Architecture 100, 101, 110, 150, 160, 204, 205, 211, 306, 309, 310, 313, 360, 370, and 470. For all other interior architecture courses, nonmajors need written consent from the instructor.

Academic Standards

To graduate with a major in interior architecture you must present in a senior portfolio review and have a minimum 2.5 cumulative GPA in all courses required for the major, including transfer courses, regardless of any declaration of academic bankruptcy. You may repeat a course in the major if you follow the course repeat policy found in the *More Academic Information* section of this catalog.

Test-Out, Credit-by-Exam, and Transfer Policy

The Division of Interior Architecture and Retail Studies will offer credit-by-exam for all its general degree requirement courses: Interior Architecture 150, 160, 309, and 310. The comprehensive written examinations will be based on materials normally covered in the course. If you wish to take an exam for credit, first confer with the IARS division head. Then confer with the faculty member who most recently taught the course who will inform you in writing of the required minimum passing score prior to administering the exam and provide the results to you in writing within two weeks of taking the exam. You may take an exam for credit only once for each course. If you are transferring art or design credits from other institutions, you must submit a portfolio and grade transcripts. Acceptance of transfer credit depends on successful portfolio evaluation and placement.

Courses in Interior Architecture

IA 100. Orientation to the Profession. 1 cr. Explore and develop plan for academic, individual, and professional career objectives.

IA 101. Color and Design. 3 cr. Color and design in relation to the near environment. 1 hr lec, 4 hrs studio per wk. May not earn credit in both IA 101 and Art 101.

IA 110. Architectural Drafting. 3 cr. Study and development of architectural drafting skills; multiview drawings, conventions, lettering, detailing, and drawing reproduction techniques. 1 hr lec, 4 hrs studio.

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 204. Presentation Techniques I. 3 cr. Basic application of drawing, sketching, and describing architectural interiors and furnishings to communicate design concepts. 6 hrs studio.

IA 205. Presentation Techniques II. 3 cr. Advanced application in color drawing, sketching, and describing architectural interiors and furnishings to communicate design concepts. 6 hrs studio. Prereq: 204.

IA 211. Interior Architecture I. 3 cr. Analysis of human and environmental factors used to create supportive space for human activity; development of a design methodology. 2 hrs lec, 2 hrs studio. Prereq: 101, Art 102 and 103, or cons instr.

IA 212. Interior Architecture II. 3 cr. Small scale interior space planning with emphasis on function, aesthetics and barrier-free environments. 1 hr lec, 4 hrs studio. Prereq: 211 (or con reg) and IA major or written cons instr.

IA 216. Materials, Finishes, and Technology. 3 cr. Selection of materials and furnishings based on analysis of human factors, aesthetics, technology and market availability; processes and resources and interior architectural detailing. Prereq: 211; con reg in 212; IA major or written cons instr.

IA 233. Textiles for Interiors (formerly Retail Studies 233). 3 cr. From fiber to finished fabric, visual recognition, selection, use, and care of textiles for interiors. Prereq: So st.

IA 300. 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: IA major or written cons instr.

IA 305. Store Planning and Design. 2-3 cr. Application of marketing theory, concepts and practice to the design and development of physical retail spaces; review of case studies; total project design, development and presentation. 2 addl hrs studio for 3 cr. Prereq: 101, 110, 211 (No prereq for 2 cr).

IA 306. History of Architectural Design in the Americas. 3 cr. Survey of structural and interior architecture in the Americas, including non-Western influences.

IA 309. History of Decorative Arts. 3 cr. Major periods and styles of architecture, furniture, and accessories used in interior environments. 3 hrs lec. GDR:HU1

IA 310(NW). History of Non-Western 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. 3 cr. Office design and systems; programming, schematics and space planning. Criteria for selection of office furnishings and materials. 1 hr lec, 4 hrs studio. Prereq: 212 and 216; IA major or written cons instr.

IA 313/513. Architectural Environments. 3 cr. How technology, culture, economics, and psychosocial needs affect public and private architectural spaces; impact on the natural environment. GDR:EL

IA 314. Architectural Systems. 3 cr. Aesthetic and technological analysis of structural, mechanical, and lighting systems and materials. Prereq: 211 and 216; IA major or written cons instr.

IA 318. Lighting Design. 3 cr. Lighting design and technology applied to interior architectural spaces. 2 hr lec, 2 hrs studio. Prereq: 314 and IA major or written cons instr.

IA 360. Ergonomics. 3 cr. Analysis and evaluation of human-task systems, human capabilities and limitations, principles of displays, controls, equipment, work stations, and fundamentals of biomechanics. Recognize design criteria for prevention of injury, work-related illness, and psychological stress. Prereq: Cons instr.

IA 370. Computer Applications in Interior Architecture. 3 cr. Application of graphic, architectural, and related software in space planning and design of interior environments. 6 hrs studio. Prereq: 110, so st.

IA 390. Fire Safe Design. 1 cr. Design for egress; analysis of suppression and containment systems, materials and finish selections, codes and resources. Prereq: IA major or written cons instr.

IA 391/591. Study Tour. 1-6 cr. Study tours to appropriate industries, museums, or facilities. Subtitle will designate area. Prereq: IA major or written cons instr.

IA 395. Field Experience. 3 or 4 cr. A 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 additional cr. May repeat for max of 9 cr. Prereq: IA major and/or written cons instr.

IA 396. Internship. 3-10 cr. Supervised professional program in an approved cooperating off-campus site for a minimum of 10 consecutive weeks. Competitive placement. Prereq: IA major and/or written cons instr.

IA 397. Field Work. 1-8 cr. A supervised training work program in a cooperating off-campus establishment; work experience and supervision followed by an evaluation of individual progress. Prereq: IA major or written cons instr.

IA 399. Special Work. 1-3 cr. Upperclass majors may arrange for independent study with cons associate dean. Credit based on scope of the project. Prereq: IA major or written cons instr.

IA 400. Professional Development. 1 cr. Portfolio and resume development. Plan for meeting career objectives. Prereq: IA major or written cons instr.

IA 405. Advanced Store Planning and Design. 3 cr. Advanced application of the design and development of physical retail spaces. Total project design, development and presentation. 6 hrs studio. Prereq: 305; IA major or written cons instr.

IA 411. Interior Architecture IV. 4 cr. Comprehensive design experience. Advanced study of design processes and theory. 8 hours studio. Prereq: 311, IA major or written cons instr.

IA 412. Interior Architecture V. 5 cr. Large scale advanced space planning, design, and life safety code applications with a non-residential component; project development and presentation. 2 hrs lec, 6 hrs studio. Prereq: 411, IA major or written cons instr.

IA 415. Problems in Interior Architecture. 2-4 cr. Develop and present major project; includes client interaction, research, programming, space planning, visual concept, reports. 2 hrs lec per wk; additional hrs to be arranged. May repeat for 8 cr max. Prereq: IA major and/or written cons instr.

IA 418. Advanced Lighting Design. 3 cr. Advanced lighting design and technology applied to interior architectural spaces. 2 hr lec, 2 hrs studio. Prereq: 318; IA major or written cons instr.

IA 430. Professional Practices for Interior Design. 1 cr. Business and design procedures; philosophies, ethics, marketing, sales and resources. Prereq: So st.

IA 470. Advanced Computer Applications in Interior Architecture. 3 cr. Advanced application and exploration of graphic, architectural, and related software in space planning and design. Prereq: 370.

IA 490/690. Workshop. 1-4 cr. Subtitle will designate area. Prereq: IA major or written cons instr.

INTERIOR DESIGN

See *Interior Architecture*.

INTERNATIONAL PROGRAMS

See *More Academic Information*.

INTERNATIONAL RESOURCE MANAGEMENT

See *Natural Resources*.

International Studies

(College of Letters and Science)

Neil Lewis, Coordinator

Room 424, College of Professional Studies Building

Phone: 715-346-2334

E-mail: nlewis@uwsp.edu

International Studies Major

Consists of 33 credits plus the foreign language requirement.

1. **Core courses**, 12 credits: Intl Studies 101(NW), 480, Geography 113, Political Science 160.
2. **Language requirement**, 0-19 credits:
 - a. If your native language is English, you must complete one foreign language course beyond fourth semester college level of a language approp to your area of concentration, or test out.
 - b. Foreign students, whose native language is not English, may use English to fulfill their international studies language requirement, by completing English 101/102, the UWSP writing emphasis (WE) requirement, and by demonstrating ability to do coursework in English.
3. **Area of concentration**, 21 credits spread between two areas. Fifteen of these credits must be in courses numbered 300 and above.
 - a. **Asia concentration:** Geography 302, 327; History 215, 216, 225, 344, 345, 346, 347, 348, 349, 350, 351; Intl Studies 399; Music 307; Philosophy 105; Political Science 160, 370, 371, 396; Religious Studies 100.
 - b. **Europe concentration:** Art 282, 283, 382, 383, 385, 386, 387, 388, 389; Economics 367; English 211, 212, 283, 285, 288, 311, 319, 323, 324, 325, 327, 330, 333, 334, 336, 346, 361, 362; French 340, 341, 342, 350, 355, 360, 370, 381, 493; Geography 328; German 340, 355, 360, 370, 381, 493; History 107, 108, 120, 302, 304, 305, 306, 307, 308, 309, 312 (Europe), 313, 321, 323, 324, 325, 330, 332, 335, 339, 340; Intl Studies 399; Music 220, 221, 300, 320, 321; Natural Resources 475; Philosophy 325, 326, 336; Political Science 361, 364; Spanish 340, 341, 342, 381, 493.
 - c. **North America concentration:** Anthropology 339, 371; Art 390, 391, 392, 393, 395, 397; Communication 121, 362, 363; Economics 311, 328, 345; English (American Literature) 213, 214, 280, 282, 313, 320, 329, 360, 364, 366, 382; Geography 211, 226, 373; History 211, 212, 274/374, 288/388, 313, 315, 316, 321, 322, 323, 324, 325, 331, 332, 335, 355, 356, 357, 358, 359, 360, 366, 369, 371, 372, 373, 375, 377, 378, 379, 380, 382, 383, 384, 385, 386, 389; Intl Studies 399; Music 102, 304, 305, 329; Philosophy 381; Political Science 101, 190, 201, 202, 212, 242, 250, 306, 308, 310, 313, 314, 315, 316, 320, 341, 354, 356, 358, 383, 391, 392, 411, 412, 413, 414, 450; Religious Studies 311, 316, 321 (when approp); Sociology 102, 300, 356, 363, 368; Spanish 382; Theatre 361.

- d. **Latin America concentration:** Anthropology 335; Geography 391; History 253, 254, 352, 353; Intl Studies 399; Natural Resources 475; Spanish 353, 354, 381, 383, 493.
 - e. **Middle East and Africa concentration:** English 281, 282; Geography 300; History 219; 220, 318, 319; Intl Studies 399; Political Science 372; Religious Studies 303, 304.
 - f. **Russia and Eastern Europe concentration:** History 329, 336, 337, 338, 339, 340, 341; Intl Studies 297, 397, 399; Political Science 362, 364, 366, 384; Russian 360, 370, 381, 493.
4. **Additional options.**
- a. If possible, participate in studies abroad or other overseas experiences in regions appropriate to your area of concentration. If you study abroad, try to apply for credit in Intl Studies 399 for up to 3 credits that you can apply to this major or minor.
 - b. Because of the interdisciplinary nature of this major, we encourage you to pursue a second major in another field.
 - c. Where possible, choose courses from several of the approved international studies disciplines to complete your requirements. Try also to choose elective courses from areas outside your area of concentration so you can acquire the broadest possible understanding of the world.
 - d. You may substitute one of the following global emphasis courses for an area-specific course to complete the major or minor with consent of the coordinator: Economics 362, 365, 367; English 361, 362; Geography 120, 340; History 373; Music 307; Natural Resources 475; Peace Studies 340, 350; Political Science 180, 374, 376, 385, 387; Sociology 360, 370.

International Studies Minor

Consists of 24 credits plus the foreign language requirement.

1. Core courses, 12 credits: Intl Studies 101(NW), 480; Geography 113; Political Science 160.
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 101/102, or one of the UWSP writing emphasis (WE) courses, and by demonstrating ability to do coursework in English.
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. Additional options. See 4a, 4c, 4d from the major.

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) international studies courses. To receive credit-by-exam for Intl Studies 101, first consult with the international studies coordinator. The 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.

If you wish to test-out of courses from other departments which may be included in the international studies major/minor, you must make arrangements with the specific department.

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 101(NW). Introduction to International Studies. 3 cr. Major patterns of traditional and modern societies in key world areas; their contributions to human social, economic, cultural, religious, scientific, and technological developments; other aspects of international understanding. GDR:HU4

INTL 297. Russia and East European Travel Seminar. 3 cr. Russia and Eastern Europe. Open to students who are going to participate in the trip to Eastern Europe within the framework of the 297 seminar. Prereq: So st.

INTL 397. Russia and East European Travel Seminar. 3 cr. Same as 297, except, offered at the junior-senior level.

INTL 399. Special Work. Upperclass international studies majors and minors may arrange for independent study in an approp area of concentration with consent of independent studies coordinator and approp instructor. Credit based on scope of the project. May be used for travel and study portion of the semester abroad programs.

INTL 480. Senior Seminar. 3 cr. A capstone experience to enhance understanding of the interrelation of cultures throughout the world. Prereq: Intl studies major or cons coordinator.

JAZZ STUDIES

See *Music*.

JOURNALISM

See *Communication*.

LAND USE PLANNING

See *Natural Resources – Resource Management*.

LATENT COURSE LIST

See section of this catalog immediately following *Courses of Instruction*.

LEARNING DISABILITIES

See *Education*.

Learning Technologies

(College of Letters and Science)

Sandra Madison, Coordinator
Room B233 Science Building
Phone: 715-346-4612
E-mail: smadison@uwsp.edu

Learning Technologies Minor

Consists of 24-25 credits.

1. Required: Computer Information Systems (CIS) 115, 210, 330, Instructional Resources 331, Learning Technologies 115, 334.
2. Electives: At least 3 credits from each category below:
 - a. CIS 211, 370 (approved subtitles); Instructional Resources 396.
 - b. Communication 302, CIS 300, Education 384.

Courses in Learning Technologies

LTEC 115. Integrating Information Tools into the Classroom.

2 cr. Integrating information system tools such as word processing, spreadsheet, database, and presentation graphics packages into the classroom setting. Includes supervised field experience. Prereq: CIS 115 or con reg.

LTEC 334. Techniques in Education: Learning Technologies.

3 cr. Aims, methods, techniques, planning, organization, assessment, and field experiences in integrating and teaching learning technologies in schools. Prereq: Admitted to Professional Education Program; jr st, CIS 115, 210, 330; or cons chair of Math/Computing.

Lecture-Forum

(College of Letters and Science)

English Department, Coordinator
Room 486, Collins Classroom Center
Phone: 715-346-4757

LECT 101, 102, 301, 302. Lecture-Forum Course. 1 cr each; pass/fail. Lectures and discussions by faculty members and outside lecturers to stimulate interest in world problems and aid students in orienting themselves to that world. Subtitle will designate theme. 2 hrs per wk. May take for 2 cr max. Attendance required to pass.

Library Resources

LRES 101. Effective Use of the University Library. 1 cr; pass/fail. Development of basic information methods necessary for the use of the University Library as an effective aid to study, research, and enjoyment.

Also see *Instructional Resources*.

LIBRARY SCIENCE

See *Instructional Resources*.

LIFE SCIENCE

See *Natural Science*.

LIMNOLOGY

See *Natural Resources-Water Resources*.

MANAGERIAL ACCOUNTING

See *Business and Economics*.

MARINE BIOLOGY

See *Biology*.

Mathematics and Computing

(College of Letters and Science)

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Faculty: R Ackley, M Anderson, A Carlson, S Carlson, J Carter, Jyotsna Chander, M Deng, G Gau, D Gibbs, J Gifford, D Goulet, E Hutchinson, R Kreczner, G Kung, S Kung, M Liu, S Madison, R Mitchell, R Morris, D Olson, C Riley, D Rohm, R Schoenecker, T Shockey, B Staal, M Stern, MR Treuden, ML Treuden, N Wetzel, MT Whalen.

The *computer information systems (CIS)* major, minor, and courses are listed under that title earlier in this catalog. The *learning technologies* minor is listed under that title above.

Mathematics Placement Test

The mathematics placement test is given to all new freshmen as they enter the university. The test covers the material found in the usual four-year high school mathematics program (two years of algebra, geometry, and precalculus) and the scoring varies according to the amount of mathematics you have taken. The test results are used to place you at the appropriate level of mathematics at UW-Stevens Point. At some of these levels you will be able to choose from several courses after examining their prerequisites. If you did not take the test at the time you entered the university, you may arrange for it at the department office.

Mathematics Major

Consists of at least 37 credits:

1. Math 120, 121, 222, 213, 300. It is strongly recommended that you complete 213 and 300 before enrolling in courses numbered above 300.
2. Four courses from the following groups, to provide greater depth in at least one area:
 - a. Algebra: Math 330, 331.
 - b. Analysis: Math 324, 327.
 - c. Probability and statistics: Math 356, 357.
3. At least two additional courses selected from Math 305, 310, 315, 320, 323, 324, 327, 330, 331, 335, 356, 357, 360, 367, 372, 468.

Mathematics Major with Actuarial Emphasis

Consists of 42 credits.

1. Math 120, 121, 213, 222, 300, 330, 356, 357.
2. Computer Information Systems (CIS) 102, 210.
3. At least 6 credits from Math 310, 315, 320, 360, 367, 397, 468.
4. At least 3 credits from Math 323, 324, 327.
5. Collateral requirements: Pass at least one of the actuarial exams.
6. Recommended collateral areas: business and economics, communication, finance, insurance, writing.

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Mathematics Minor

Consists of 25 credits including Math 120, 121, 222, 213, 300, and at least 6 credits numbered above 300.

Applied Mathematics Minor

Consists of at least 24 credits including Math 120, 121, 213, 356, 357, and completion of two courses from Math 222, 305, 310, 315, 320, 360, 367, 468.

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 mathematics 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 of the 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.

Mathematics Major for Secondary Teacher Certification (grades 9-12)

Consists of at least 42 credits:

1. Required (32 cr): Math 120, 121, 213, 222, 300, 331, 340, and Math Ed 334, 335, 340.
2. Complete 2a or 2b below (at least 4 cr):
 - a. Math 350, Math Ed 350.
 - b. Math 356, 357.
3. Complete two courses below:
 - a. Math 305, 310, 315, 320, 322, 324, 327, 330, 335, 360, 367, 372.
 - b. Math 359/Math Ed 359 (counts as one course). Allowed only if you complete the math middle school minor. See "Middle School Level Add-On Option" in the *Education* section earlier in this catalog for additional requirements.

Mathematics Minor for Elementary Education Majors

Consists of 23 credits:

1. Required: Math 338, 359, 369; Math Ed 334, 359, 369.
2. Complete either Math 355 or Math 350/Math Ed 350.
3. Complete one: Math 109, 111, or 120
4. Required but not part of the minor: Math 228 and Math Ed 228, 338, 345.

Mathematics Minor for Middle School Teacher Certification (grades 6-8)

This minor extends the 9-12 licensing for secondary mathematics teachers to include grades 6-8.

1. Complete EITHER the Math Major or Minor for Secondary Teacher Certification (grades 9-12).
2. Required (14 cr): Math 228, 338, 359, and Math Ed 228, 338, 359.

Mathematics Minor for Secondary Teacher Certification (grades 9-12)

Consists of at least 29 credits:

1. Required (25 cr): Math 120, 121, 213, 300, 340, and Math Ed 334, 335, 340.
2. Complete 2a or 2b below (at least 4 cr):
 - a. Math 350, Math Ed 350.
 - b. Math 356, 357.

Academic Standards for Teacher Certification

To have a major in mathematics for teacher certification approved for graduation, you must have a minimum grade point average of 2.00 in the math courses you select to satisfy the requirements of the major. (You need a GPA of 2.75 to student teach.) 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.

1. A minimum grade point average of 2.75 is required for teacher certification.
2. Elementary education majors are required to take Math 228, 338, Math Ed 228, 338 and Math Ed 345.
3. **Enrollment caps** are in effect for those seeking teacher certification. Please contact the Mathematics 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.

Test-Out and Credit-by-Exam Policy

The principal test-out procedure for mathematics is the UW System Mathematics Placement Exam. You are placed in math courses based on that exam and may place out of the mathematics requirement.

1. If you do not feel the placement test has accurately reflected your ability, you may retake the test once.
2. OR you may take the final exam for any general degree requirement (GDR) math course. If you score 70% or higher, you will be exempt from that course.
3. You may also use AP (Advanced Placement) scores to receive advanced placement and credit-by-exam. If you score a 3 or higher on the AP Calculus AB exam, you can receive credit for Math 120. If you score a 3 or higher on the AP Calculus BC exam, you can receive credit for both Math 120 and 121.
4. If you took calculus in high school but did not take the AP exam, you may be placed directly into Math 121 at the discretion of the department chair. If you earn a grade of B or better in 121, you will receive retroactive credit for 120.

Master of Science in Teaching (Mathematics)

Is offered in cooperation with UW-Oshkosh. You can get more information from the department office.

Courses in Mathematics

Also see listing under *Mathematics Education*.

****MATH 90. Beginning Algebra (formerly 50 and 51).** 3 cr. Real numbers, solving linear equations and inequalities, exponents, polynomials, and rational expressions. Algebra for those with low placement test scores who need practice in fundamental math skills. Does not count toward a degree.

****IMPORTANT**** If you are placed into remedial coursework in mathematics and/or English you must restrict your coursework to a level that will allow for success. You must receive written permission from your adviser to enroll in more than 16 credits during any semester that you enroll in remedial coursework. If you want to enroll in more than 18 credits during any semester that includes remedial coursework, you must receive written permission from the dean of your college. Factors that are considered in approving credit load include your ACT score, high school class rank, overall high school record, university GPA, and demands on your time such as coursework, extracurricular activities and employment.

Entering freshmen who are placed into remedial mathematics and/or English must complete the remedial coursework prior to earning 30 credits toward graduation. If you are in this category and fail to complete the remedial work prior to 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 101. Basic Trigonometry and Applications. 2 cr. Introduction to trigonometry and applications to surveying, navigation, and indirect measurement. Not open to those who have taken Math 119. Not to be used as a substitute for Math 119 in preparation for Math 120. May not earn credit in both Math 101 and 119. Prereq: 100 or placement into 101. 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. GDR: MATH BA

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 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 101 and 119. Prereq: 100 or suitable placement test score. GDR: MATH BS BM/BFA.

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 test score.

MATH 121. Analytic Geometry and Calculus II. 4 cr. Analytic geometry of the plane continued; differentiation and integration of transcendental functions; integration techniques; infinite series; additional applications. Prereq: 120.

MATH 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 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. 4 cr. Basic concepts and properties of sets, number systems, and functions that apply to elementary school math. 3 hrs lec, 2 hrs lab per wk. Prereq: 100 or placement above 100 and con reg in Math Ed 228; and elementary Ed major with cons chair of Mathematics and Computing. *If you do not meet the prerequisite, you will not be allowed to take the course.* GDR: MATH BS

MATH 300. Introduction to Higher Mathematics. 3 cr. Transitional course 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; emphasis on reading and writing formal mathematical proofs. Prereq: 121.

MATH 305. Discrete Mathematics. 3 cr. Algorithm analysis: recursion, complexity; combinatorics: recurrence relations, dynamic systems, counting techniques; graph theory: Eulerian and Hamiltonian graphs, algorithms and heuristics, planar graphs, trees, applications. Prereq: 120 or 109.

MATH 310. Operations Research I. 3 cr. Formulation and computation of linear programming: simplex method, duality, sensitivity analysis, computer solutions; integer programming; network flows with applications. Prereq: 213.

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 320/520. 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 322. Vector Analysis. 3 cr. Vector algebra; vector calculus; gradient, divergence, and curl; divergence theorem; Stokes' theorem; line and surface integrals; introduction to tensor analysis; applications. Prereq: 222.

MATH 323/523. Foundations of Analysis. 3 cr. The elementary topological properties of the real line and the Euclidean plane; connectedness, compactness, continuous and uniformly continuous functions. Prereq: 300.

MATH 324/524. Complex Variables. 3 cr. Complex numbers, functions of a complex variable; power series; elementary functions; conformal and bilinear transformation; integral theorems; Taylor and Laurent expansions; theory of residues; applications. Prereq: 222 and 300 or cons instr.

MATH 327/527. 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, 222 and 300.

MATH 328. Mathematics for Early Childhood Education. 4 cr. Extended topics from 228 applied to early childhood education. Informal geometry, measurement, and statistics. Does not count toward math major or minor. Prereq: 228 and con reg in Math Ed 328. GDR: MATH BS

MATH 330/530. 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 and 300.

MATH 331/531. Abstract Algebra. 3 cr. Groups, rings, fields, number systems, Euclidean domains, and polynomials. Prereq: 213 and 300.

MATH 335/535. 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. 4 cr. Topics from measurement, probability, statistics, algebra, and geometry with emphasis on problem solving. 3 hrs lec, 2 hrs lab per wk. Prereq: 228 and con reg in Math Ed 338. Does not count toward math major or minor.

MATH 340/540. College Geometry. 3 cr. Foundations of geometry; survey of Euclidean geometry from various developmental approaches; introduction to non-Euclidean geometries. Prereq: 300 and con reg in Math Ed 340/540.

MATH 348. Seminar in Preparation for Actuarial Exam 100. 2 cr. Study and discussion of concepts and problems from calculus and linear algebra found on recent actuarial examinations. Prereq: 213 and 222.

MATH 350/550. Probability and Statistics with Teaching Methods. 3 cr. Discrete and continuous probability distributions; random variables; mathematical expectation; statistical estimation and inference; hypothesis testing; regression. Focus on applications of and teaching methods for probability and statistics in the high school classroom. May not earn credit in both 356 and 350. Does not serve as prereq for 357. Does not count toward math major. Prereq: 121.

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MATH 355. Elementary Statistical Methods. 4 cr. Fundamental concepts and techniques which underlie applications to the 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 or minor, or the major for teacher certification. Prereq: 100 or a 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 in Preparation for Actuarial Exam 110. 2 cr. Study and discussion of concepts and problems from statistics found on recent actuarial examinations. Prereq: 357 or con reg in 357.

MATH 359/559. Mathematics for Middle School I. 2 cr. Extended topics from algebra, geometry, trigonometry, analytic geometry, measurement, probability, and statistics. Problem solving and computer applications. Prereq: 338 and con reg in Math Ed 359.

MATH 360/560. Numerical Analysis. 3 cr. Differences and interpolation; function approximation; solution of equation; linear systems and matrices; numerical solutions of ordinary differential equations; least square approximation; quadrature. Prereq: 213 and 222.

MATH 367. Mathematics of Decision and Choice. 3 cr. Quantitative approaches to rational decision-making: game theory, decision analysis with uncertainty and risk, management science; emphasis on model formulations and solution using computer software. Prereq: 121, or 109.

MATH 369/569. 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 and 300.

MATH 380. Seminar in the History of Mathematics. 2 cr. The historical development of selected mathematical ideas. Prereq: 213.

MATH 390/590. Special Topics in Mathematics. 1-3 cr. Subtitle will designate topic and number of credits. Prereq: cons chair.

MATH 395. Seminar. 1 cr. Presentation and discussion of selected readings in mathematical subjects. May repeat for 3 cr max with different subtitles. Prereq: Cons instr.

MATH 397. Internship in Mathematics. 2-6 cr. Participate in supervised training work program in cooperating agency or business with arrangement by faculty adviser and approval of dept chair. Number of credits determined by adviser and chair following dept guidelines. May repeat for 6 cr max. Prereq: Jr st and cons instr.

MATH 455/655. Advanced Statistical Methods. 4 cr. Advanced concepts and techniques which underlie applications to various disciplines including: simple and multiple regression, analysis of variance, and nonparametric methods; use of statistical package(s) such as SAS or SPSS-X. Does not count toward math major or minor or major for teacher certification. Prereq: 355 or equiv statistics course.

MATH 468. Applied Statistics. 3 cr. Analysis of variance, simple regression and correlation, multiple regression and correlation, time series; model building and forecasting. Prereq: 356 and 357.

MATH 499. Independent Study. Upperclass math majors may arrange for independent study with cons chair. Credit based on scope of the project. May apply 3 cr to the major.

Courses in Mathematics Education

M ED 228. Teaching Elementary School Mathematics. 1 cr. Principles, goals, methods, techniques. Prereq: Con reg in Math 228.

M ED 229. Teaching Elementary School Mathematics I. 1 cr. Principles, goals, methods, and techniques. Only for transfer students who did not take Math 228 at UWSP. Prereq: 4 cr of math for elementary teachers equivalent to Math 228.

M ED 328. Teaching Early Childhood Mathematics. 1 cr. Principles, goals, methods, and techniques of early childhood mathematics through grade 3. Prereq: Con reg in Math 328.

M ED 334/534. Technology Tools for Mathematics Teachers. 3 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. 3 cr. Aims, methods, materials, techniques, planning, organization, testing, and field experience. Same as Educ 335. Prereq: Jr st and admission to Professional Education Program.

M ED 338. Teaching Elementary School Mathematics II. 1 cr. Principles, goals, methods, techniques. Prereq: Con reg in Math 338.

M ED 339. Teaching Elementary School Mathematics II. 1 cr. Principles, goals, methods, and techniques. Only for transfer students who did not take Math 338 at UWSP. Prereq: 4 cr of math for elementary teachers equivalent to Math 338.

M ED 340/540. Teaching Secondary Geometry. 1 cr. Techniques, research, curricular planning, and evaluation issues related to teaching geometry at the secondary level. Prereq: 300 and con reg in Math 340/540.

M ED 345. Teaching Elementary School Mathematics III. 1 or 2 cr. Principles, goals, methods, and study of curricular content at appropriate levels; includes field experience. Prereq: Math 338 or cons instr.

M ED 350/550. Teaching Probability and Statistics. 1 cr. Techniques, research, and evaluation issues related to teaching probability and statistics at the secondary level. Prereq: Math 121 and con reg in Math 350.

M ED 359. Teaching Middle School Mathematics I. 2 cr. Techniques, research, curriculum planning, teaching of problem solving. Prereq: Math 338 and con reg in Math 359.

M ED 369/569. 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 375/575. A Laboratory Approach to Mathematics. 3 cr. Use of laboratory techniques for learning and teaching math; planning, equipping, maintaining and designing instructional materials for a math laboratory. For teachers with little previous training in use of a math laboratory. Prereq: Cons instr.

M ED 390/590. Special Topics. 1-3 cr. Subtitle will designate topic and number of credits. Prereq: Cons chair.

M ED 398. Student Teaching in Mathematics. 4-16 cr; pass/fail. Observation and teaching in the secondary school classroom under the guidance of cooperating teachers and university faculty. Prereq: Completion of mathematics DPI certified major/minor and DPI education requirements.

M ED 399. Special Work. 1-3 cr. Upperclass students may arrange for independent study with cons chair. Credit based on scope of the 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.

Medical Technology

(College of Professional Studies)

Susan Raab, Chair
 Room D-127A, Science Building
 Phone: 715-346-3766
 E-mail: sraab@uwsp.edu
<http://www.uwsp.edu/acad/medtech/>

Faculty: J Bulgrin, D Chitharanjan, S Raab, M Shulfer.

Medical Technology Major

Consists of the academic and clinical program:

1. **Academic Program:** 119-123 credits of on-campus study including the following:
 - a. The bachelor of science general degree requirements.
 - b. Medical Technology, 40 credits: 105, 205, 295, 345, 365, 375, 385, 405, 415, 425, 435, 445, 465, 495, 499.
 - c. Chemistry, 24-25 credits: 115 and 116, 248, 325, 326, 328, 365. (Chem 105/106 may be accepted in lieu of 115/116 with permission from chemistry chair and medical technology chair.)
 - d. Biology, 16 credits: 160, 210, 285, 333.
 - e. Math, 4 credits: 355.
 - f. Registration in summer session is required for the summer following the sophomore or junior year.
2. **Clinical Practicum:** 24 credits awarded for completion of clinical practicum in affiliated clinical laboratories.
3. Meeting or exceeding the requirements for eligibility to apply for the clinical practicum does not guarantee placement. Students will apply to the Professional Program. Acceptance will be based upon academic credentials, interviews, and available clinical sites.

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.

Berkshire Medical Center, Pittsfield, Massachusetts; Rebecca Johnson, M.D., Linda Billings, MBA, MT(ASCP); Langlade Memorial Hospital, Antigo: Michael Lawton, MT(ASCP); Sacred Heart Hospital, Eau Claire: Thomas W. Hadley, M.D., Ken Johnson, MSMT; St. Elizabeth's Hospital, Appleton: Peter Podluszky, M.D.; Carla Salmon, MT(ASCP), CLS; St. Joseph's Hospital, Marshfield: K. D. Reed, M.D., Virginia Narlock, Ph.D., MT(ASCP); St. Michael's Hospital, Stevens Point: Rodney Hoeth, MS, MT(ASCP); St. Vincent Hospital, Green Bay: D.P. Sharphol, M.D., Harlan Bloy, MT(ASCP); V.A. Hines Hospital: M. E. Rubnitz, M.D., Donna Wray, MT(ASCP), CLS(NCA); Wausau Hospital Center, Wausau: Kathy Belgea, M.D., Susan Flaker Johnson, MEPD, MT(ASCP).

Academic Standards

For acceptance and continued registration as a candidate for the medical technology major you must have a grade point average of 2.75 overall and in the sciences, including biology, chemistry, mathematics, and medical technology 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 medical technology 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 Medical Technology. Contact the department chair for additional information.

Courses in Medical Technology

MEDT 105. Introduction to Health Professions. 2 cr. Emergence of health care. Overview of health professions: options and expectations; guidelines, responsibilities, and curricula for various careers in the health sciences. 2 hrs lec per wk.

MEDT 205. Clinical Orientation. 1 cr; pass/fail. Hospital introduction to laboratory techniques. Open only to students majoring in medical technology.

MEDT 295. Medical Terminology. 2 cr. Examination of bases of medical terms: prefixes, suffixes, roots, combined forms; terms that name the nine basic body systems and organs. 2 hrs lec per wk.

MEDT 345. Special Topics In Medical Technology. 3 cr. Survey of selected topics in physiological chemistry. Includes an introduction to mechanisms of antibacterial and antiviral agents and chemotherapy. Prereq: Biology 285 and Chemistry 365 or cons instr.

MEDT 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.

MEDT 375. Quality Systems in the Clinical Laboratory. 2 cr. Study quality management in the clinical laboratory; discuss pre-analytical, analytical, and post-analytical phases of testing, statistical methods of quality control, regulatory requirements, verification of instrument maintenance and functions, and risk assessment. Prereq: Admission to professional program.

MEDT 385. Professional Leadership Development. 3 cr. Study professional roles, responsibilities, contemporary problems and conflicts as 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.

MEDT 395. Environment, Health, and Technology. 3 cr. Changing environment and its relationship to human health, including historical review, current concerns, future projections. Topics include health effects of radiation, water and air pollutants, antibiotics, emerging infectious diseases and overpopulation. Case studies will be presented. Prereq: Jr st. GDR:EL

***MEDT 399. Special Work.** 1-3 cr. Special independent research projects. Credit based on scope of the project. Prereq: Jr st and cons chair.

MEDT 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.

***MEDT 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; admission to professional program.

MEDT 415. Hematology/Hemostasis. 4 cr. Study the hematopoietic system including the relationship of hematologic disease states with diagnostic features; determine blood and bone marrow cellular morphology; discuss erythrocyte disorders, leukocyte disorders, disorders of hemostasis, and various diagnostic techniques

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and instrumentation used in patient diagnosis. 3 hrs lec, 3 hrs lab per wk. Prereq: Biology 285.

***MEDT 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; admission to professional program.

MEDT 425. Diagnostic Medical Microbiology. 5 cr. Study bacterial, mycoplasmal, rickettsial, chlamydial, parasitic, and mycotic diseases of humans; identify clinical signs and symptoms of these diseases; explore collection, transportation, modes of transmission, and laboratory methods used to detect and identify the pathogens as well as appropriate antibiotic therapy. 3 hrs lec, 6 hrs lab per wk. Prereq: Biology 333.

***MEDT 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; admission to professional program.

MEDT 435. Immunology (formerly 355). 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

***MEDT 436. Clinical Immunology Practicum (formerly 435).** 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; admission to professional program.

MEDT 445. Immunochemistry. 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.

***MEDT 446. Clinical Immunochemistry 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; admission to professional program.

***MEDT 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. Prereq: Admission to professional program.

MEDT 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. Prereq: Admission to professional program.

MEDT 495. Research Design and Methods in Clinical Laboratory Science. 1 cr. Apply scientific method to clinical laboratory research problems; explore research design principles; write research proposals; design research project. 1 hr lec per wk. Prereq: Admission to professional program.

***MEDT 499. Advanced Clinical Studies.** 2 cr. Under supervision of mentor, design and conduct research project in specialty area of clinical laboratory science; prepare major research paper and presentation. This is a capstone course. Prereq: Admission to professional program.

**Clinical Practicum: Courses marked with (*) will be completed at the affiliated clinical laboratories.*

MIDDLE SCHOOL, Add-on Certifications

See *Education*.

Military Science (College of Professional Studies)

Lieutenant Colonel Thomas A. Gray, Chair
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<http://www.uwsp.edu/acad/rotc>

Faculty: K Cowen, L Goins, T Gray, E Killen, W Ledbetter.

The Department of Military Science offers 23 credits in courses which may qualify you for a commission as a second lieutenant in the Regular Army, U.S. Army Reserve, or Army National Guard. The Reserve Officers' Training Corps (ROTC) is an elective program that enhances your education by providing unique management and leadership instruction coupled with practical experience. The program is designed to develop leadership and management skills basic to success as a leader in a civilian career or in the U.S. Army. ROTC provides you with a valuable opportunity to build for the future by enabling you to earn a degree and an officer commission at the same time.

The ROTC program is based on a four year curriculum integrated with a normal baccalaureate degree program. The program is divided into a two year basic course and two-year advanced course. You incur no military service obligation while enrolled in the basic course. Flexibility is provided to you through a number of options and alternatives designed to tailor the program requirements to your situation and time remaining at the university. These alternatives recognize previous military-related experience and allow for exceptions to the normal four year curriculum.

Both male and female students who have at least two years of undergraduate and/or graduate study remaining may qualify for entry into the advanced course program.

Military science courses are open to all UW-Stevens Point students. Any student can earn a minor in military science by completing the required curriculum.

You may apply for three or two year scholarships each September. Winners are announced second semester and are effective that fall.

A detailed Reserve Officers' Training Corps Program orientation and answers to any questions are available upon request.

Military Science Minor

Consists of a minimum of 23 credits:

1. Completion of Military Science 101*, 102*, 211*, 214*, 301, 302, 451, and 452.
2. In addition to the courses that are required for commissioning, cadets must meet certain Professional Military Education requirements. These include taking coursework in the following areas: written communication skills, military history, and computer literacy. In most cases you can meet these requirements by selecting courses that will satisfy both this and your general degree requirements. Contact your ROTC adviser for a list of suggested courses.

*Veterans and Reserve Component personnel who qualify for and complete MIL 301 receive 6 academic credits (for MIL 101, 102, 211 and 214). If you complete the 6-week Basic Camp, you also receive 6 credits. Direct specific questions on requirements to the department chair.

Courses in Military Science

MIL 101. Introduction to Military Science. 1 cr. Introduction to universal leadership skills; emphasis on practical work. Subtopics may include land navigation, marksmanship, rappelling, water safety, first aid, physical fitness, leadership, survival, and cold weather indoctrination. 1 hr lec per wk and one 3 hr lab each month.

MIL 102. Introduction to Military Science. 1 cr. Continuation of 101.

MIL 211. Orienteering and Basic Survival. 2 cr. Fundamentals of map reading, land navigation, and first aid, with approximately 8 hrs of outdoor field orienteering; basic wilderness survival to include techniques and psychological factors. 2 hrs lec per wk and one 3 hr lab each month. Prereq: 101, 102, or cons chair.

MIL 214. Applied Leadership. 2 cr. Examination of the basic theories of leadership and leader behavior. Develop abilities to analyze, evaluate, and solve leadership problems through simulation exercises. Emphasis on developing personal accountability and strong sense of teamwork. 2 hrs lec per wk and one 3 hr lab each month. Prereq: 211 or cons chair.

MIL 301. Leadership Management. 3 cr. Principles, objectives, and techniques; functions of a leader and special problems in military leadership; emphasis on problem analysis and decision-making, delegation and control, planning and organizing, and interpersonal skill required for effective management. 2 hrs lec and 1 hr disc per wk and one 3 hr lab each month. Prereq: 101, 102, 211, and 214, or advanced placement and cons chair.

MIL 302. Command and Control. 4 cr. Techniques of directing and coordinating individual and team tactics; functions of branches in support of the Army military communications system; apply principles of leadership; develop potential by planning, preparing, and presenting practical instruction. 3 hrs lec per wk and one 3 hr lab each month. Prereq: 301 or cons chair.

MIL 399. Special Work in Contemporary Military Leadership. 1-3 cr. Advanced military science students may participate in an intensive readings program examining contemporary military leadership and combat motivation. Prereq: Cons chair.

MIL 451. Operations, Logistics, and Administration. 4 cr. Advanced instruction in management skills; processes for arriving at decisions and translating them into plans and orders; principles of administration and logistics; practical experience in the management of personnel through performance as a cadet officer in the planning and supervision of cadet activities. 3 hrs lec and one 3 hr lab each month. Prereq: 302 or cons chair.

MIL 452. Military Law. 3 cr. Fundamental concepts of U.S. military justice; requirements for a separate body of law for the military; organization, historical evolution, and procedures of the Uniform Code of Military Justice; introduction to and understanding of a professional soldier's responsibilities, need for ethical conduct and improved ethical decision-making skills; (practical experience as 451). 2 hrs lec and 1 hr disc per wk and one 3 hr lab each month. Prereq: 451 or cons chair.

NOTE: In conjunction with the School of Health, Physical Education, Recreation and Athletics, the Department of Military Science offers the following courses. Credit counts toward the wellness general degree requirements:

WL 153/154. Advanced Physical Fitness. 1 cr. Physical training program designed to increase knowledge of some of the techniques available to improve muscular strength and endurance and cardiorespiratory capacity. Activities include strength exercises and aerobic exercise to include running, and a variety of individual and team sports.

WL 177/187. Fall Leadership Laboratory. 1 cr. Off-campus weekend orientation to and participation in outdoor physical skills preceded by on-campus introductory class and safety orientation. Activities include: rappelling, basic military skills, and a leader's reaction course. Prereq: Con reg in 101/211.

MINORITY AND ETHNIC STUDIES

See *History* for the concentration. See *Sociology* for the Native American and rural social work minor.

Museum Techniques

(College of Letters and Science)

Robert Freckmann, Acting Museum Director
Room 301, College of Natural Resources
Phone: 715-346-4248
E-mail: rfreckma@uwsp.edu

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 105, 200; Natural Resources 368.
5. History, art, geology, and geography majors may negotiate credit for museum-oriented courses (e.g., Native Americans, Greek culture). All relevant semester abroad courses are appropriate for the museum techniques minor. Contact the International Programs Office for more information.



Music

(College of Fine Arts)

Robert Kase, Chair
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www.uwsp.edu/acad/music/information.html

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Professional Opportunities in Music

Music graduates find employment in education and performance fields. Our music programs prepare students for professional careers as teachers at private and public schools, colleges and universities. In performance areas, we prepare students for careers with opera companies, orchestras, churches, and jazz and commercial bands. Music study may lead to a career as a composer, conductor, music theory or literature specialist, music management position, or music administrator. Music graduates may become self-employed professional performers, technicians, and teachers in the private sector. Employment in the music business as instrument repair specialists or recording engineers are also possibilities.

NOTE:

1. 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 department chair for information as to date, time, and other details.
2. All music majors must register for 1 or 2 credits of large ensemble every semester (normally, a total of 16 credits, with exceptions for recital, student teaching, and transfer).
3. String music education majors and string applied majors need four semesters of chamber ensemble.
4. See the Music Department "Silent Advisor" for recital attendance requirements.
5. The following organizations are open to all students: Pointer Pep Bands, Concert Choir or Choral Union, Wind Ensemble, Concert or University Band, Vocal and Instrumental Jazz Ensemble, University Orchestra, and numerous small ensembles.

Bachelor of Arts Degree in Music

Consists of 42-48 credits.

1. Theory, 14 credits: Music 110, 111, 112, 113, 210, 212, 379. Placement exam required. If you have insufficient background, take Music 109 as prerequisite.
2. Applied music, 8-14 credits.
 - a. Major applied instrument, 8 credits. You must reach proficiency Level IV on your major instrument before graduation.
 - b. Minor applied instrument, 0-6 credits. When piano is not your major applied instrument, take 6 credits of piano or reach proficiency Level III.
3. Major ensemble, 8 credits.

4. Music literature, 8 credits: Music 220, 221, 320, 321.
5. Music electives, 4 credits.

If you want to complete this "liberal arts" music major, we encourage you to plan a concentrated interest area or minor with your adviser.

Bachelor of Music—Applied Music Option

1. **Piano.** Admitted by audition only. Your performance proficiency will be reviewed at the end of the second semester of your freshman year for permission to continue. You must perform a half recital in your junior year and a full recital in your senior year. You need proficiency Level VII in piano for your senior recital and graduation.
 - a. Applied music, 28 credits: 160, 4 credits; 260, 360, and 460, 24 credits.
 - b. Theory, 19 credits: 110, 111, 112, 113, 210, 212, 379; and 5 credits from 315, 317, 394 or 395, 410, 479. Placement exam required. If insufficient background, Music 109 is prereq.
 - c. Music literature and history, 14 credits: 220, 221, 320, 321, 420, 421.
 - d. Piano pedagogy, 2 credits: 491.
 - e. Required ensemble: a combined total of 16 credits from 328 and 429 (at least 2 cr from each course). Instructor and coordinator determine eligibility for accompanying. (See NOTE, above.)
2. **Voice.** Admitted by audition only. Your performance proficiency will be reviewed at the end of the second semester of your freshman year for permission to continue. By the end of the sophomore year you must achieve proficiency Level III in piano and IV in voice. You must perform a half recital in your junior year and a full recital in your senior year. You need proficiency Level VII in voice for presentation of your senior recital and graduation. For graduation you also need proficiency Level III in piano.
 - a. Applied music, 28 credits: 162, 4 credits; 262, 362, and 462, 24 credits.
 - b. Theory, 20 credits: 110, 111, 112, 113, 210, 212, 317, 379; and 4 credits from 394, 410, 479. Placement exam required. If insufficient background, Music 109 is prereq.
 - c. Music literature and history, 14 credits: 220, 221, 320, 321, 323, 422.
 - d. Vocal pedagogy, 2 credits: 492.
 - e. Required vocal ensemble, 16 credits. (See NOTE, above.)
 - f. Opera Workshop, 2 credits: 390.
3. **String instrument.** Admitted by audition only. You must reach proficiency Level III in piano and VII in your major instrument, and give a senior recital.
 - a. Applied music, 28 credits: 163-166, 4 credits; 263-266, 363-366, and 463-466, 24 credits.
 - b. Theory, 23 credits: 110, 111, 112, 113, 210, 212, 315, 317, 379, and 5 credits from 395, 410, 479. Placement exam required. If insufficient background, Music 109 is prereq.
 - c. Music literature and history, 11 credits: 220, 221, 320, 321, and 426 or 427.
 - d. String pedagogy, 2 credits: 496.
 - e. Required ensemble, 16 credits including 131, 231, 342. (See NOTE, above.)

4. **Wind instrument.** Admitted by audition only. Your performance proficiency will be reviewed at the end of the second semester of your freshman year for permission to continue. By the end of your sophomore year you must achieve proficiency Level III in piano and IV in the appropriate instrument. You must present a half recital in your junior year and a full recital in your senior year. You must reach proficiency Level VII for the recital and for graduation. For graduation you also need proficiency Level III in piano.

- a. Applied music, 28 credits: 167 through 176, 4 credits; 267 through 276, 367 through 376, and 467 through 476, 24 credits.
- b. Theory, 23 credits: 110, 111, 112, 113, 210, 212, 315, 317, 379; and 5 credits from 395, 410, 479. Placement exam required. If insufficient background, Music 109 is prereq.
- c. Music literature and history, 11 credits: 220, 221, 320, 321, and 426 or 427.
- d. Brass or woodwind pedagogy, 2 credits: 493 or 494.
- e. Required ensemble, 16 credits. (See NOTE, above.)

5. **Percussion.** Admitted by audition only. Your performance proficiency will be reviewed at the end of the second semester of your freshman year for permission to continue. By the end of your sophomore year you must achieve proficiency Level III in piano and IV in the appropriate instrument. You must present a half recital in your junior year and a full recital in your senior year. You need proficiency Level VII for the recital and for graduation.

- a. Applied music, 28 credits: 177, 4 credits; 277, 377, and 477, (24 credits).
- b. Theory, 23 credits: 110, 111, 112, 113, 210, 212, 315, 317, 379, and 5 credits from 395, 410, 479. Placement exam required. If insufficient background, Music 109 is prereq.
- c. Music literature and history, 11 credits: 220, 221, 320, 321, and 426 or 427.
- d. Percussion pedagogy, 2 credits: 495.
- e. Required ensemble, 16 credits. (See NOTE, above.)

Bachelor of Music–Jazz Studies Option

1. Theory, 16 credits: 110, 111, 112, 113, 210, 212, 317, 379.
2. Creative techniques, 6 credits: 192, 217, 391.
3. History and literature, 10 credits: 220, 304, 305; and 2 credits from 221, 320, 321.
4. Music business, 2 credits: 319.
5. ONE of the following emphases:
 - a. **Performance Emphasis:** Admitted by audition only. You must have proficiency Level VI on your major applied instrument. You also need proficiency Level III on piano if it is not your major instrument. Woodwind majors must play saxophone, clarinet, and flute, attaining Level VI on the major instrument, and Level IV on the two secondary instruments. All performance majors must present a senior recital.
 - 1) Applied music, 30 credits: 4 credits from 160, 162, 166-177, 181; 24 credits from 260, 262, 266-277, 281, 360, 362, 366-377,

381, 460, 462, 466-477, 481; 2 credits of 392.

- 2) Required ensemble, 24 credits: 8 credits from 341, 342, 343 (guitar and piano majors may substitute 123); 12 credits from 124, 125, 126, 344, 345; 4 credits from 123, 130, 390.

b. **Composition/Arranging Emphasis:** You need proficiency Level V on your major applied instrument and proficiency Level IV on the piano if it is not your major instrument.

- 1) Theory electives, 12-14 credits: 315, 394/395, 410, class applied (152-157).
- 2) Composition/arranging, 10 credits: 4 credits of 379; 417, 482.
- 3) Applied music, 10 credits: 4 credits from 160-181; 4 credits from 260-281; 2 credits from 360-381.
- 4) Required ensemble, 12 credits: 8 credits from 341, 342, 343 (guitar and piano majors may substitute 123); 4 credits from 123, 124, 125, 126, 130, 344, 345.
- 5) Music electives: 4-6 credits.

Bachelor of Music–Music Education Option

There are three majors in music education: (1) instrumental K-12; (2) choral 7-12; and (3) general music K-12. When you major in one area, you can complete "add-on" certification requirements in the other two. Add-on certification is also available for music education majors in exceptional education: music education.

In addition, noncertifiable areas of emphasis are available in jazz education and Suzuki talent education. These special areas of emphasis complement the music education tracks.

Proficiency Levels: You must earn proficiency Level V on your major instrument. You need piano proficiency Level III if you are an instrumental major and Level IV if you are a choral or general music major. If piano is the major instrument, choral and general music majors must reach Level IV in voice.

Teacher Certification Note: Enrollment caps are in effect for those seeking teacher certification. Please contact the Music Department early for entrance requirements and application procedures. Also see the information about the Professional Education Program and the elementary and secondary education curricula for teacher certification in the **Education** section of this catalog.

You must complete all requirements before you begin your student teaching/internship semester.

1. Instrumental (K-12):

- a. Education, 10-11 credits: 205, 351, 381, 386. You also need History 211 and 212; Political Science 201; one biological science and one physical science course. You must have a 2.75 GPA to student teach.
- b. Music Ed, 21 credits: 201, 324, 326, 398.
- c. Music, 61 credits (string music ed, 62 credits):
 - 1) Theory, 14 credits: 110, 111, 112, 113, 210, 212, 379. Placement exam required. If insufficient background, Music 109 is prereq.
 - 2) Orchestration, 2 credits: 315.
 - 3) Applied music, 10 credits (Level V).
 - 4) Music literature, 8 credits: 220, 221, 320, 321.

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- 5) Class applied, 8 credits: 152, 154, 155, 156, 157. (Delete the applied course in your major area; string majors must take 153 with 152 as a prereq.)
 - 6) Music 150 (Class voice for instrumentalists), 1 credit.
 - 7) Conducting, 4 credits: 317, 395.
 - 8) Major ensemble, 14 credits. (See NOTE above.)
2. **Choral (7-12):**
- a. Education, 10-11 credits: 205, 351, 381, 386. You also need History 211 and 212; Political Science 201; one biological science and one physical science course. You must have a 2.75 GPA to student teach.
 - b. Music Ed, 19 credits: 201, 325, 398.
 - c. Music, 62 credits:
 - 1) Theory, 14 credits: 110, 111, 112, 113, 210, 212, 379. Placement exam required. If insufficient background, Music 109 is prereq.
 - 2) Vocal pedagogy, 2 credits: 492.
 - 3) Applied music (major), 10 credits: Voice or piano (Level V).
 - 4) Applied music (minor), 6 credits: Voice or piano (Level IV).
 - 5) Music literature, 10 credits: 220, 221, 320, 321, 322.
 - 6) Conducting, 4 credits: 317, 394.
 - 7) Major ensemble, 14 credits: 341. (See NOTE above.)
 - 8) Additional ensemble, 2 credits: Choice of 344 (2 credits), or 130, 390 (1 credit each).
3. **General Music (K-12):**
- a. Education, 10-11 credits: 205, 351, 381, 386. You also need History 211 and 212; Political Science 201; one biological science and one physical science course. You must have a 2.75 GPA to student teach.
 - b. Music Ed, 21 credits: 201, 323, 382, 398.
 - c. Music, 57 credits:
 - 1) Theory, 14 credits: 110, 111, 112, 113, 210, 212, 379. Placement exam required. If insufficient background, Music 109 is prereq.
 - 2) Applied music (major), 10 credits: Voice, piano, or organ (Level V).
 - 3) Applied music (minor), 6 credits: Voice or piano (Level IV).
 - 4) Music literature, 11 credits: 220, 221, 320, 321, and choice of 304, 305, or 329.
 - 5) Conducting, 2 credits: 317.
 - 6) Major ensemble, 14 credits: 341. (See NOTE above.)
4. **Add-on certification areas.** We recommend that voice or piano majors complete both choral (7-12) and general music (K-12) tracks. If you are an instrumental major, you may also wish to expand your certification areas. Consult your adviser.
- a. **Instrumental (K-12)** certification for choral or general majors:
 - 1) Major applied band or orchestra instrument to Level IV.
 - 2) Class applied instruments, 10 credits: 152, 153, 154, 155, 156, 157. (Delete the applied course in your major area. String majors may substitute Music 495, Music Ed 384, or Music Ed 385 for 152 or 153.)
 - 3) Music education, 4 credits: 324, 326. Advanced instrumental conducting, 2 credits: 395. Major ensemble, 8 credits: 342 or 343.
 - 4) Student teaching, Music Ed 398, 5 credits minimum.
 - b. **Choral (7-12)** certification for instrumental or general majors:
 - 1) Voice applied to Level IV. Piano applied to Level IV. Music 341, choir: 8 credits. Additional choral ensemble, 2 credits: 344 (2 credits); or 130, 390 (1 credit each). Choral literature, 2 credits: 322. Secondary methods, 2 credits: Music Ed 325 (Choral). Advanced choral conducting, 2 credits: 394. Vocal pedagogy, 2 credits: 492.
 - 2) Student teaching, Music Ed 398. Minimum of 5 credits.
 - c. **General music (K-12)** certification for instrumental or choral majors:
 - 1) Voice applied to Level III. Piano applied to Level IV. Music 341, 6 cr, Choir. Music Ed 323, 2 cr, Elem music methods. Music Ed 382, 2 cr, Sec music methods. Additional Music History, 3 cr: Music 304 or 305 or 329.
 - 2) Student teaching, Music Ed 398, 5 credits minimum.
 - d. **Exceptional education: music education (#861):** This add-on certification is available only to music education majors.
 - 1) Music Ed 390, 2 credits; 398, 4 credits (student teaching with exceptional children).
 - 2) Education: 351, 3 credits; 354, 3 credits.
5. **Areas of Emphasis.** The following plans do not lead to certification. They are designed to guide you in pursuing special interest areas.
- a. Jazz education, instrumental or vocal, 15 credits: Music 123 or 130; 192, 217, 304, 305; 344 or 345. Music Ed 427.
 - b. Suzuki talent education, 9 credits: Music Ed 384/584, 385/585, 386/586, 426.

Bachelor of Music–Music Literature Option

1. Theory, 14 credits: 110, 111, 112, 113, 210, 212, 379. Placement exam required. If insufficient background, Music 109 is prereq.
2. Theory electives, 4 credits from 315, 317, 394/395, 410, 479.
3. Applied music (major), 12 credits: You must reach proficiency of Level V on your major instrument before graduation. You need proficiency Level III on piano if it is not your major instrument.
4. Required ensemble, 16 credits. (See NOTE, above.)
5. Music literature, 33 credits:
 - a. Required courses, 21 credits: 220, 221, 320, 321, 327, 428 (each 2 cr), 326, 329, 427 (each 3 cr).
 - b. Electives, 12 credits: Choice of 301, 304, 305, 307, 308, 309, 322, 323, 420, 421, 422, 424, 426 (each 3 cr).

Music Minor

Consists of 24 credits:

1. Theory, 8 credits: 110, 111, 112, 113. Placement exam required. If insufficient background, Music 109 is prereq.
2. Applied lessons, 4 credits: 160-181 (2 credits each semester).
3. Major ensemble, 4 credits: 140, 341, 342, 343, 344, or 345 (2 credits each semester).
4. Music electives, 8 credits, selected from at least two of the following groups: (Music 100, 102, 109; Music Ed 201, 381 do not count toward music minor.)
 - a. Theory/composition courses.
 - b. Conducting courses.
 - c. Music history and literature courses.
 - d. Music education courses.
 - e. Small ensembles or major ensembles.
 - f. Jazz studies: performance, history, or analysis.
 - g. Private applied or class applied.
5. Recital attendance requirement, no credit. See the Music Department student handbook.

If you are interested in a music minor, please contact the Music Department and consult with a music adviser regarding your musical objectives, music electives, and the recital attendance requirement.

Academic Standards

1. Permission to register, placement, and exceptions to the requirements are subject to the approval of the instructor and the chair.
2. Meet all general degree requirements for the bachelor of music degree OR bachelor of arts degree. Refer to the **General Degree Requirements** section of this catalog.
3. To graduate with a major in music you must have a minimum 2.0 cumulative grade point average (2.75 to student teach) in all required major courses, including transfer courses, regardless of any declaration of academic bankruptcy. You may repeat courses in the major if you follow the course repeat policy found in the **More Academic Information** section of this catalog.
4. Courses in music are open to all students who meet the prerequisites.

Test-Out, Credit-by-Exam, and Music Placement

If you are seeking advanced placement in the music general degree requirement courses by testing out of a course or by gaining credit through exam, see the coordinator of the specific area in which the course is offered.

If you are from a UW-College, while not required, we strongly encourage you to take the placement exams in musicianship and music history to determine the proper course you should take in those areas. If you are transferring from institutions outside the UW System, you are required to take musicianship and music history exams.

We require all music education students to meet with the coordinator of music education before registering for upper level music education courses.

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 or minor, or bachelor's degrees in music. GDR:HU1

MUS 101. Appreciation of Music in Performance. 3 cr. Music appreciation; the art of listening to and critiquing live music performances. Class lectures, in-class demonstrations/performances, and required attendance at public concerts. Does not count toward music major or minor.

MUS 102. Popular Music in America. 1-3 cr. The music of America's people, past and present: the great jazz and folk movements, Broadway musical theatre, film music; recording, publishing, and broadcasting. Does not count toward a music major or minor, or the bachelor's degree in music. Subtitle will designate area. May repeat for credit with different subtitle. GDR:HU1

MUS 103. Music in Film. 3 cr. Study of 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 or minor. GDR:HU1

MUS 105(MNS). Survey of Jazz History. 3 cr. Study of history and literature of jazz from beginnings to present. Emphasis on sociological impact of the music and musicians responsible for creating this American art form. Does not count toward music major or 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 of theory fundamentals. Introduction to applied skills, analysis, and composition of tonal music. Prereq: Placement exam or 109; con reg in 112.

MUS 111. Musicianship II. 3 cr. Extension of applied skills, analysis, and composition in the tonal idiom, including modulation and chromaticism. Prereq: 110, 112, and con reg in 113.

MUS 112. Aural Musicianship I. 1 cr. Introduction to aural musicianship. Prereq: Placement exam or 109; con reg in 110.

MUS 113. Aural Musicianship II. 1 cr. Extension of aural musicianship skills. Prereq: 110, 112, con reg in 111.

MUS 122-138. Small Ensembles I. 1 cr each. May repeat for credit. Prereq: Cons instr.

122-Vocal Jazz; 123-Instrumental Jazz Combo; 124-Pit Orchestra; 125-Studio Orchestra; 126-Review Ensemble; 130-Vocal; 131-String; 132-Flute; 133-Clarinet; 134-Saxophone; 135-Mixed Woodwind; 136-Low Brass; 137-Mixed Brass; 138-Drumset.

MUS 144. University Band. 1 cr. An opportunity for nonmusic majors to continue playing in a musical organization for enrichment. No audition necessary. May repeat for credit.

MUS 149-157. Class Applied Music. 2 cr each (except as noted). Elements of each medium taught by class participation and observation.

149-Guitar; 150 (1 cr)-Vocal Techniques for Instrumentalists; 152-Violin/Viola/Cello/String Bass; 153 (1 cr)-Cello/String Bass (Prereq: 152); 154-Double Reeds/Flute; 155-Single Reeds; 156-Brass; 157-Drumset.

MUS 158. Group Piano. 1 or 2 cr. Piano through Level III; for the nonpianist music major; exemption, by audition, from any level or part of a level. Does not count toward major or minor in music, except the bachelor of music degree in music education-vocal emphasis.

MUS 159. Group Piano for the Elementary Teacher. 2 cr. Basic piano skills in music and rhythmic reading, and harmonization of simple melodies; for students in elementary education.

MUS 160-181. Applied Music I. 2 cr each. Prereq: Cons chair.

160-Piano; 162-Voice; 163-Violin; 164-Viola; 165-Violoncello; 166-Double Bass; 167-Flute; 168-Oboe; 169-Clarinet; 170-Bassoon; 171-Saxophone; 172-Trumpet; 173-Horn; 174-Trombone; 175-Euphonium; 176-Tuba; 177-Drumset; 178-Harp; 181-Jazz Guitar.

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MUS 192. Introduction to Jazz Improvisation. 1 or 2 cr. Elements of improvising in jazz styles through playing. Prereq: Knowledge of chords and scales, or cons instr; 1 cr first eight weeks; 2 cr full semester.

MUS 193. Music Improvisation. 2 cr. Applied improvisation using jazz, aleatory, chance, and free improvisation. Prereq: Basic proficiency on a musical instrument, an understanding of improvisation in other media, or cons instr.

MUS 210. Musicianship III. 3 cr. Extension of applied skills, analysis, and composition in the chromatic idiom. Prereq: 111, 113, and con reg in 212.

MUS 212. Aural Musicianship III. 1 cr. Advanced aural musicianship skills. Prereq: 111, 113, and con reg in 210.

NOTE: If you fail or receive an incomplete in applied musicianship courses (112, 113, 212), you may enroll for the next course in the sequence with permission of the theory faculty, provided that you repeat the failed course, or remove the incomplete in the same semester.

MUS 217. Beginning Jazz Arranging Techniques. 2 cr. Study of jazz and commercial arranging styles for public school and professional organizations. Prereq: 111 or cons instr.

MUS 220(NW). Introduction to Music Literature. 2 or 3 cr. Survey of non-Western and early Western (pre-1600) music; emphasizes skills for studying music, including listening and research skills. Uses of music in diverse non-Western and Western groups. Music lit majors/3 cr. GDR:HU1

MUS 221. Music of the 17th and 18th Centuries. 2 or 3 cr. Musical idioms and styles of the Baroque and Classical periods; development of new forms; relationship of music to the general culture of the periods. Music lit majors/3 cr. GDR:HU1

MUS 222-238. Small Ensembles II. 1 cr each. Same listing as 122-138 at sophomore level. May repeat once for credit. Prereq: 122-138.

MUS 260-281. Applied Music II. 4 cr for applied music majors; 2 cr all others. Same listing as 160-181 at sophomore level. May repeat once for credit. Prereq: 160-181, and cons chair.

MUS 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 (certain subtitles only)

MUS 301/501. History of Women in Music. 2 or 3 cr. The contribution of women as composers, performers, authors, and teachers throughout European and American history. GDR:HU1

MUS 302. Diction for Singers I. 1 cr. Application of international phonetic alphabet to lyric diction in Latin, Italian, German, and French repertoire. 1 hr lec, 1 hr lab per wk. Prereq: Cons instr.

MUS 303. Diction for Singers II. 1 cr. Continued application of international phonetic alphabet to lyric diction in Latin, Italian, German, and French repertoire. One hr lec, one hr lab per wk. Prereq: 302 or cons instr.

MUS 304/504 (MNS). Jazz History and Literature I. 3 cr. History and literature of jazz, 1900-1945; New Orleans, Chicago, Swing, Big Bands. GDR:HU1

MUS 305/505. Jazz History and Literature II. 3 cr. History and literature of jazz, 1945 to present; Be-Bop, Cool, Third Stream Hard Bop Regression, Electric Fusion, Modal Styles. GDR:HU1

MUS 307/507(NW). 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 BA,BS

MUS 308. Survey of Film Music. 3 cr. Critical study of film music from silent era to present. May take as music elective toward music major or minor. Prereq: Music major or minor.

MUS 309. Historical Analysis of American Popular Music. 3 cr. Critical and historical analysis of popular music in America including jazz and folk music, musical theater, and other pertinent subjects. May take as elective toward music major or minor. Prereq: Music major or minor; 111, 113, 220.

MUS 315/515. Orchestration. 2 cr. Orchestral instruments: their ranges, playing characteristics, physical properties, history, and advisable use. Prereq: 110.

MUS 317. Conducting. 2 cr. Conducting techniques for vocal and instrumental groups; experience in conducting through class laboratory situations. Prereq: 110.

MUS 319/519. Introduction to Music Business. 2 cr. Copyright law, unions and guilds, recording industry, television/film and radio, music management.

MUS 320. Music of the 19th Century. 2 or 3 cr. Musical styles and idioms of the Romantic period from 1825 to 1900; origins, development, rise of new forms, and relationship of music to the general culture of the period. Music lit majors/3 cr. GDR:HU1

MUS 321. Music of the 20th Century. 2 or 3 cr. Trends of 20th century music from historical and theoretical standpoints. Survey literature, develop aural and written theoretical skills pertaining to 20th century music. Music lit majors/3 cr. Prereq: 210, 212.

MUS 322. Choral Literature. 2 cr. Survey of significant small forms of choral composition from the Renaissance to the present, with emphasis on stylistic understanding.

MUS 323/523. Opera. 3 cr. Opera from 1600 to the present, with emphasis on one masterwork of each period. GDR:HU1

MUS 326/526. Music Before 1600. 3 cr. History, literature, and stylistic trends of music from the Greeks to 1600. GDR:HU1

MUS 327/527. Music Reference and Research Techniques. 2 cr. Introduction to musical scholarship and writing projects in music history-literature, theory, and musicology; emphasis on bibliographical survey of reference materials. Prereq: 211-212, 220, 221, and cons instr.

MUS 328/528. Studio Accompanying. 1 cr. For the intermediate and advanced pianist; development of accompanying skills in vocal and instrumental music; supervision of applied instructor in an area other than piano; required for applied piano degree. Prereq: Cons piano faculty.

MUS 329/529. American Music. 3 cr. From the pilgrims to the present; emphasis on jazz and ethnic music, and their influence on contemporary music. GDR:HU1

MUS 330-338/530-538. Small Ensemble III. 1 cr each. May repeat once for credit. Prereq: 230-238.

330/530-Vocal; 331/531-String; 332/532-Flute; 333/533-Clarinet; 334/534-Saxophone; 335/535-Mixed Woodwind; 336/536-Low Brass; 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.

*Students not majoring in music may attend 5 rehearsals weekly for 2 cr, or 3 rehearsals for 1 cr, with optional scheduling.

MUS 359-381. Applied Music III. 4 cr for applied majors; 2 cr all others. Jr/sr nonapplied music majors may register for 4 credits with cons instr and chair. Prereq: 260-281 and cons chair.

359-Harpsichord (Prereq: Piano proficiency of Level VII and cons instr); 360-Piano; 361-Organ; 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; 380-Classical Guitar; 381-Jazz Guitar.

MUS 390. Opera/Musical Theatre Workshop. 1 cr. Practical experience in opera, operetta, musical comedy. May repeat for credit; required in applied voice degree. Prereq: Cons instr.

MUS 391/591. Jazz Keyboard Techniques. 2 cr. Basic keyboard skills in chord voicing, chord substitution, accompanying, jazz keyboard styles. Prereq: 211 or cons instr.

MUS 392/592. Advanced Jazz Improvisation. 2 cr. Theory of extended tertial and quartal harmonies and chord substitution; scalar improvisation starting with the innovations of Be-Bop. Prereq: 192 or cons instr.

MUS 394. Advanced Choral Conducting. 2 cr. Conducting and rehearsal techniques with emphasis on the relationship between gesture and interpretation of the score; experience in conducting the university choral ensembles. Prereq: 317.

MUS 395. Advanced Instrumental Conducting. 2 cr. Experience in selecting, conducting, and rehearsing instrumental music suitable for use in elementary and secondary schools; emphasis on performance problems unique to band and orchestra instruments; required performance on secondary instruments. Prereq: 317.

MUS 397. Collaborative Arts Performance Workshop. 1 cr. History and theory of collaborative arts; participation in student directed multimedia performances. Team taught by art and design, music, theatre and dance. Prereq: Jr st and cons instr.

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 417/617. Advanced Jazz Arranging Techniques. 2 cr. Continuation of 217; jazz and commercial arranging styles for professional jazz ensembles and studio orchestras, with opportunities for performance by university ensembles. Prereq: 217 or cons instr.

MUS 420/620. Piano Literature I. 3 cr. Keyboard literature from 1700 to 1825 including major composers and their contributions to this field.

MUS 421/621. Piano Literature II. 3 cr. Keyboard literature from 1825 to present with emphasis on major composers and their contributions to this field.

MUS 422/622. Voice Literature. 3 cr. Study of vocal literature from 1500 to the present to broaden performing and teaching repertoire, including study of program building.

MUS 424/624. History and Literature of Wind Ensemble Music. 2 cr. History of the development of wind instruments and their literature, including composers from Mozart to the present.

MUS 426/626. Chamber Music. 3 cr. Survey of chamber music including literature of the string quartet and other instrumental chamber ensembles. GDR:HU1

MUS 427/627. Symphonic Music. 3 cr. Survey of symphonic music, including literature of the symphony and symphonic program music. GDR:HU1

MUS 428. Senior Project in Music Literature. 2 cr. Culminating experience. With minimal guidance, produce research project in musicology or ethnomusicology. Prereq: Music lit major, sr st, 327.

MUS 429/629. 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 430-438/630-638. Small Ensemble IV. 1 cr each. May repeat once for credit. Prereq: Cons instr.
430/630-Vocal; 431/631-String; 432/632-Flute; 433/633-Clarinet; 434/634-Saxophone; 435/635-Mixed Woodwinds; 436/636-Low Brass; 437/637-Mixed Brass; 438/638-Percussion.

MUS 459-481. Applied Music IV. Same description and listing as 359/382 at senior level. Prereq: 359/381 and cons chair.

MUS 483. Music Literature Internship. 1 cr. Student assistance in music literature or appreciation courses; preparation of lecture/demonstrations under faculty guidance. May repeat once for credit.

MUS 484/684. Applied Project in Commercial Music. 4 cr. Composition or arrangement of a major work or project in the area of commercial music, such as television, film, or radio production, theatre revue, concert, etc. Prereq: 417 and cons instr.

MUS 491/691. Piano Pedagogy. 2 cr. Effective skills in private and class piano, with discussion and performance of piano literature; observation of class and private instruction. Prereq: Piano proficiency Level IV.

MUS 492. Voice Pedagogy. 2 cr. Vocal teaching methods; observation of class and private instruction. Prereq: Voice proficiency Level IV.

MUS 493. Woodwind Pedagogy. 2 cr. Methods of teaching woodwind instruments and specific problems of each instrument.

MUS 494. Brass Pedagogy. 2 cr. Methods of teaching brass instruments and specific problems of each instrument.

MUS 495. Percussion Pedagogy. 2 cr. Percussion literature and reference material including method books, textbooks, and publisher sources. Prereq: Percussion proficiency Level IV.

MUS 496. String Pedagogy. 2 cr. Techniques employed by master string teachers of the past and present, including literature and music available for string instruction at all levels, in both private and class situations. Prereq: Performance Level IV, and/or cons instr.

MUS 499. Special Work. Upperclass music majors may arrange for independent study with cons chair. Credit based on scope of the project devoted to theory, conducting, composition, orchestration, or music history.

MUS 711. Theory. 3 cr. Structure and materials of music, in which analysis is related to the performance and interpretation of music; musical materials drawn from small forms, 1650-1900.

MUS 712. Form and Analysis. 3 cr. Musical forms from all periods, with emphasis on structural analysis.

MUS 760-782. Artist Course in Applied Music. 2 cr each. Expand repertoire and develop musicianship.

760-Piano; 761-Organ; 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; 778-Harp; 779-Composition; 780-Classical Guitar; 781-Jazz Guitar; 782-Keyboard Synthesizer.

MUS 796. Independent Study. 1-3 cr. Planned study to supplement preparation in area of specialization.

Courses in Music Education

MUED 201. Introduction to Music Education. 1 cr. Introduction to the philosophy of music education. 2 hrs per wk includes observation and participation in public school music classes. Prereq: Music 110, 112.

MUED 323. Elementary Methods: General Music. 2 cr. Theory and application of general music teaching skills in the primary and 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 or cons instr; for music majors and 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: 201 or cons instr; for music majors and minors only.

MUED 381. Music in the Elementary School. 3 cr. Theory, techniques, and teaching skills in primary and intermediate grades; music fundamentals that apply to each grade; aims and content of public school music in relation to general curriculum. Does not count toward music major or minor. Prereq: Pass basic musicianship competency test. (See elementary education curriculum for the BS degree.)

MUED 382. Secondary Methods: General Music. 2 cr. Theory and application of general music teaching skills in the secondary school; objectives, materials, planning, and testing. Prereq: 201 or cons instr.

MUED 383/583. Music Education Workshop. 1-3 cr. Materials, methods, and curricular developments in music education and performance pedagogy. Subtitle will designate area and prerequisites.

MUED 384/584. Suzuki Talent Education Pedagogy. 2 cr. Foundations of Suzuki Talent Education philosophy and system as a practical approach to developing musical ability in children; teaching skills needed to establish a learning environment; discussion, observation, and audiovisual materials. Individual music performance not required.

MUED 385/585. Suzuki Workshop I. 2 cr. (Sec. 1, violin; Sec. 2, piano.) Apply techniques and repertoire of Suzuki method at the elementary level; individual performance and observation of children required. Prereq: 384/584 or cons instr. (May be registered with SAA.)

MUED 386/586. Suzuki Workshop II. 2 cr. (Sec. 1, violin; Sec. 2, piano.) Apply techniques and repertoire of Suzuki method beyond the elementary level; individual performance and observation of children required. Prereq: 385/585 or cons instr. (May be registered with SAA.)



MUED 387/587. Survey of Suzuki Talent Education. 2 cr. (Section 1-Level I, may repeat once for credit; Section 2-Level II; Section 3-Level III; Section 4-Level IV; Section 5-Level V; Section 6-Level VI; Section 7-Level VII; Section 8-Level VIII.) Study of Suzuki Talent Education philosophy and repertoire with applications to teaching at designated levels including performance and observation of children. (May be registered with the SAA.)

MUED 389/589. Principles of Adult and Continuing Music Education. 2 cr. Needs and characteristics of adult learners in music; strategies for development of learning and performance enterprises in community settings. Prereq: 201 or cons instr.

MUED 390. Music for Exceptional Children. 2 cr. How music can be used with children who are mentally retarded, emotionally disturbed, learning disabled, or gifted, or who have visual, hearing, speech, or motor impairments; techniques and materials. Prereq: 323; Educ 351/551.

MUED 398. Student Teaching in Music. 16 cr. Observation and teaching in the elementary and/or secondary classroom under the guidance of cooperating teachers and university faculty. Prereq: Completion of music major and DPI and education requirements.

MUED 424/624. Survey of Choral Literature. 2 cr. Selection and reading of solo and ensemble literature for junior and senior high school; for the experienced teacher.

MUED 425/625. Survey of Instrumental Literature. 2 cr. Selection and reading of solo and ensemble literature for junior and senior high school; for the experienced teacher.

MUED 427/627. Workshop in Jazz Pedagogy. 427/2 cr; 627/3 cr. Jazz teaching methods; techniques for elementary and secondary education.

MUED 465/665. Literature of Suzuki Talent Education I. 3 cr. (Sec. 1, violin; Sec. 2, piano.) Survey of performance and teaching literature; graded performance and technical materials; leads to advanced level training. Ability to demonstrate musical and technical concepts required. Prereq: 385/585 or cons instr. (May be registered with the 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 the SAA.)

MUED 485/685. Band Pageantry. 2 cr. Marching and formation techniques for the street, parade, and the sport event.

MUED 486/686. Theory and Practice of Instrumental Repair, Adjustment, Tuning, and Maintenance. 2 cr. Beginning and intermediate work with use of tools for woodwind, brass, and percussion.

MUED 487. Theory and Practice of Piano Tuning and Repair. 2 cr. Introduction to piano maintenance with emphasis on practical experience in tuning, regulating, and repairing.

MUED 498. Intern Teaching. 16 cr. Structured field experiences in approved school programs. Interns are certified by DPI and are employed under contract with schools to design, deliver, and assess instructional programs in grades n-k-12. Prereq: Complete all methods courses and 75% content courses in approp major. Con reg in approp section of Educ 400 may be required.

MUED 710. Theory for Junior and Senior High Schools. 3 cr. Latest teaching approaches for music theory including teaching machines, tape machine learning, programmed learning, and research applications, laboratory and reading projects.

MUED 723. Music Literature for Junior and Senior High Schools. 3 cr. Selection and presentation of classic and modern literature for young people; styles and form and their implications for teaching.

MUED 750-760. Pedagogical Techniques for Music Teachers. 2 cr each. Designed to assist the experienced teacher.
750—Piano; 751—Voice; 752—Violin; 753—Low Strings; 754—Flute; 755—Double Reeds; 756—Clarinet; 757—Brass; 758—Trumpet; 759—Horn; 760—Low Brass; 761—Percussion; 762—Guitar.

MUED 781. New Developments in Elementary Music. 3 cr. An eclectic approach to examining new developments in elementary music; including Kodaly and Orff approaches.

MUED 783. Problems in Curriculum and Supervision. 3 cr. How curriculum relates to a total school program; for the experienced teacher.

MUED 784. Choral Rehearsal Techniques. 3 cr. Problems of organizing and preparing ensembles, especially rehearsal techniques.

MUED 785. Instrumental Rehearsal Techniques. 3 cr. Problems of organizing and preparing ensembles, especially rehearsal techniques.

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 789. Seminar in Music Education IV. 3 cr. Techniques and materials of individual or small-group instruction, with applications for the private studio teacher. Subtitle will designate area.

MUED 790. Seminar in Music Education V. 3 cr. Techniques and materials of individual and group instruction, with applications for the jazz educator. Subtitle will designate area.

MUED 797. Performance, Methods, and Materials. 2 cr.

MUED 798. Residency. 1-6 cr. Observation and teaching under guidance from cooperating teachers in actual classroom situations. May repeat once for max of 12 cr.

MUED 799. Thesis. 2-6 cr.

MUSIC LITERATURE

See *Music*.

MUSICAL THEATRE

See *Theatre and Dance*.

NATIVE AMERICAN AND RURAL SOCIAL WORK

See *Sociology*.

Natural Resources, College of (CNR)

Victor D. Phillips; Room 100, Natural Resources Bldg.
Christine L. Thomas, Interim Assistant Dean;

Room 100, Natural Resources Bldg.

Susan M. Kissinger, Advising/Recruitment Coordinator;
Room 100, Natural Resources Bldg.

Phone: 715-346-2853

The College of Natural Resources offers degrees in forestry, paper science, resource management, soil and waste resources, water, and wildlife. These degree programs with a variety of options are described under the appropriate headings in the following pages.

Majors and/or minors are offered in camp and youth agency administration and programming, environmental communication, environmental education/interpretation, environmental law enforcement, forestry, forest recreation, international resource management, land use planning, resource management, soil and waste resources, water resources, and wildlife. Students in any of these majors must meet the general degree requirements, which are stated in an earlier section of this catalog. In addition:

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, as well as the summer camp courses, before the beginning of your junior year.
2. The courses you take to fulfill a specific major or minor must be approved by an adviser in that discipline before you graduate. Therefore, it is imperative that you work with an adviser when choosing your course sequence.
3. Courses required in a major or minor may not be taken on a pass/fail option.

Abbreviations:

CIS = Computer Information Systems

Comm = Communication

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 2.50 grade point average in courses required for the major.
3. Complete an application to the College of Natural Resources. We will notify you within four weeks of your application, and if accepted will assign an adviser. Certain 300 and 400 level courses are restricted to approved CNR and/or biology majors. Nonmajors must have written consent from the 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 2.50. 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 have a minimum grade point average of 2.50 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. You may repeat only one class with a grade of D in the College of Natural Resources. The new grade will be calculated into the grade point average. The associate dean may allow exceptions on a conditional basis.

Test-out and Credit-by-Exam Policy

The College of Natural Resources offers credit-by-exam for all of its courses. The comprehensive exam for each course will be written and drawn from lecture and/or lab topics normally covered in the course.

If you wish to take an exam for credit, first confer with the associate dean. Then confer with the faculty member who most recently taught the course. The faculty member will give you any pertinent information about the exam and notify you in writing before you take the exam of the required minimum passing score. You will receive your grade in writing within two weeks after taking the exam. Results will be forwarded to the Registration and Records Office if credit-by-exam is granted. You may take a test-out exam only once.

Master of Science Degree-Natural Resources

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

Camp and Youth Agency Administration and Programming Minor

Consists of 24 credits directed at the principles and practices of program planning, administration, and environmental education within youth agencies and camps.

1. Required courses, 15 credits: NRES 300 or 370, 281, 376, 382, 383.
2. Nine credits that include at least one course from each area: Psychology 260, 315, or Sociology 225, 261, 315. See minor adviser for other options.
3. Internship experience is recommended. See minor adviser.

Conservation Biology Minor

Consists of 25-28 credits.

1. Required core courses, 13 cr: Biology 305; 355 or Forestry 332; NRES 458 or Wildlife 458; NRES 459, 491.
2. Economics, policy, and planning, 6 cr:
 - a. NRES 372 or Econ 342.
 - b. One course from Poli Sci 304, NRES 473, 474, 480, 484, 495.
3. Biological support, 6-9 cr:
 - a. Plant taxonomy: one course from Biology 342, 344, 345, 347, Forestry 232.
 - b. Animal taxonomy: one course from Biology 361, 372, 374, 376, 377, 378, Water 387, Forestry 426.
 - c. Principles and techniques: one course from Biology 210, 311, Wildlife 353, 451, Forestry 324, 325, 332, 385, 432, Soils 361, 365, 461, Water 481, 493, Geography 476.

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Environmental Communication Minor

Open only to majors within the College of Natural Resources. It consists of 26 credits:

1. Required core courses, 11 credits: NRES 320, 363, 364, 365, 368.
2. Fifteen credits: 3-6 credits from Comm 211, 217; 9-12 credits from Comm 252, 322, 330, 340, 342, 361, 365, 391, 394; English 354; Instructional Resources 331, 332.

Environmental Education/Interpretation Minor

Consists of 29 credits. It is open only to majors in the College of Natural Resources (other than resource management) and the Department of Biology. (Others may request special permission from the CNR associate dean.)

1. Required courses, 26 credits: NRES 301, 302, 363, 364, 365, 368, 374, 376, 478. If you are a CNR major, you must also take NRES 395.
2. Electives: 3-6 credits from field courses selected in consultation with the coordinator of the minor.

Environmental Education Minor for Elementary and Middle School

Open only to students who are seeking teacher certification. Consists of at least 24 credits from the following:

1. Environmental ed core: NRES 370, 376, 478.
2. Environmental science core, up to 14 credits. Take one course from at least three of the four areas below:
 - a. Biology 101
 - b. Chemistry 100 or 101.
 - c. Physics 101.
 - d. Geography 101.
3. Electives: Biology 305, Philosophy 380, other courses approved by adviser.

Enrollment caps are in effect for those seeking teacher certification. Please contact the Wisconsin Center for Environmental Education early for entrance requirements and application procedures. Also see information about the Professional Education Program and the secondary education curriculum for teacher certification in the *Education* section of this catalog.

Environmental Law/Enforcement Minor

The minor consists of 21-24 credits: NRES 440, and 473; Sociology 230; NRES 320 or Comm 230; Philosophy 315 or 380; and Poli Sci 212 and 304.

If you are pursuing conservation law enforcement (warden option) you must complete (instead of Philosophy 315 or 380; and Poli Sci 212 and 304) a law enforcement recruit training program offered by a state technical college and certified by the Wisconsin Law Enforcement Training and Standards Board. You receive 12 transfer credits in NRES 393 for completing this program.

Environmental Studies Minor

Administered by the College of Letters and Science. See description earlier in this catalog.

FORESTRY

Robert W. Miller, Coordinator
Room 374, Natural Resources Building
Phone: 715-346-4189
E-mail: rmiller@uwsp.edu

Faculty: R Brush, J Cook, D Crunkilton, C David, R Geesey, R Govett, A Haney, J Harms, J Houghton, RW Miller, Robert Rogers, H Schabel, E Spangenberg.

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 areas of 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.

Forestry Major

1. Major study and approved electives to total 133 credits.
2. Required courses, 63 credits:
 - a. Forestry 232, 321, 322, 326, 327, 332, 425, 432; NRES 150, 151, 250, 251, 372, 490.
 - b. Biology 130; CIS (2 credits: spreadsheet, programming or database as directed by forestry advising); Econ 210; Philosophy 380;
 - c. Summer Camp: Forestry 319, 320, NRES 405, Soils 359, 360, Water 380, Wildlife 340; or NRES 475.
3. Complete ONE of the four following collateral options:
 - a. **Forest Management**
 - 1) Required, 41 credits: Biology 160; Chemistry 105; Math 101, 111; Forestry 324, 370; 329, 426, 433; NRES 377; Biology 351 with Biology 130 and Chemistry 105 accepted as prereqs; Comm 211 or 217.

- 2) Electives: 7 credits selected from: Forestry 325, 330, 331, 333, 335, 350, 370, 381 (1-3 cr), 385, 394, 424, 428, 431, 434, 440, 480, 493; Geography 476; NRES 320, 323, 357, 371, 473, 474; Paper Science 101; Soils 361; Water 389, 493; Wildlife 451.
- b. **Forest Administration and Utilization**
Required, 52-54 credits:
- 1) Natural science requirement: 10 credits total from at least two of the following areas: Biology 160; Chemistry 101, 105, 106; Physics 101, 203, 204.
 - 2) Math 101, 109 or 111.
 - 3) Accounting 210; Business 340, 380; Comm 211 or 217.
 - 4) Forestry 329, 370; two of Forestry 428, 429, 433; and NRES 377.
 - 5) Electives: Minimum of 8 adviser-approved credits from 300-400 level forestry, natural resources, business, economics courses; 200-400 level accounting courses; 100-400 level paper science courses.
- c. **Urban Forestry**
- 1) Required, 44 credits: Biology 160; Chemistry 105; Math 101, 111; Forestry 331, 333, 335, 385, 424, 426, 431; NRES 320; Biology 351 with Biology 130 and Chemistry 105 accepted as prereqs.
 - 2) Electives, 5 credits from: Forestry 324, 342, 381 (1-3 cr), 395, 430; Wildlife 454; Biology 344, 346; Geography 476; NRES 335, 357, 377, 474.
- d. **Forest Recreation**
- 1) Required, 46-48 credits: Biology 160; Chemistry 105; Math 101, 111; Forestry 324, 330, 331 or 333, 335, 385, 394, 426, 480; NRES 320, 367, 2 credits from 363, 364, 365.
 - 2) Electives, 5-6 credits from: Forestry 334, 342, 381 (1-3 cr), 424, 430, 431, 433; Geography 476; NRES 335, 357, 377, 393, 440, 473, 474, or any 300-400 level wildlife course beyond Wildlife 320, excluding 340.

Forestry Minor

Consists of 22 credits:

Forestry 232, 321, 322, 327, 332, 425, 432.

Forest Recreation Minor

Consists of 27 credits:

1. Forestry 330, 331, 334, 335, 394, 480; at least 4 credits from NRES 363, 364, 365, 367, 368.
2. Eight credits from the following: Forestry 324, 332, 333, 381 (1-3 cr), 385; NRES 320, 393 or 473, 474; Wildlife (any 300-400 level course beyond 320 and excluding 340).

Forest Recreation Concentration in the Business Administration Major

See *Business and Economics* earlier in this catalog.

Forestry Transfer Students

If you are transferring here from an accredited institution to pursue a degree in forestry, you must complete at least 21 credits of 300- and 400-level UWSP forestry courses.

Courses in Forestry

FOR 224. Fire Operations. 1 cr. Fire control techniques, tactical planning, fire crew supervision, safety procedures, and proper use and maintenance of equipment for management of prescribed burns and control and suppression of wildland fires. After completing this course and a WDNR firefighting training session, you may apply for WDNR firefighter's certification. (I)

FOR 232. Forest Ecology and Systematics. 3 cr. Ecological and systematic concepts of the forest, with emphasis on dominant trees and shrubs, and their relationships in the forest community. Prereq: Biology 130 and Forestry 120; or cons instr.

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 mgnt. Prereq: NRES 250; 2.50 GPA in major, CNR major or written cons instr. (SS)

FOR 320. Field Experience in Forest Measurement. 1 cr. Application of forest measurement techniques and ecological relationships for integrated resource mgnt. Prereq: NRES 250; 2.50 GPA in major, CNR major or written cons instr. (SS)

FOR 321. Forest Biometry. 4 cr. Use applied mathematical and statistical methods to solve forestry problems. 3 hrs lec, 2hrs lab per wk. May not earn credit in both 321 and Math 355. Prereq: Math 100, CNR major or written cons instr. (I, II)

FOR 322/522. Forest Mensuration. 3 cr. Measure volume, growth, development of individual trees and stands; determine products obtainable from them; construction and use of appropriate instruments, tables, and surveys. 2 hrs lec, 3 hrs lab per wk. Prereq: Math 109 or 111, Math 355 or Forestry 321, CIS 102 (spreadsheet), CNR major or written cons instr. (II)

FOR 324. Fire Management and Ecology. 2 cr. The phenomenon of fire including its physical and chemical effects and historical significance. Behavior and effect of wild and prescribed fire in temperate forests. Techniques involved in planning, conducting, and evaluating prescribed burns. Prereq: Forestry 320, 327, NRES 250; CNR major or written cons instr. (II)

FOR 325/525. Range Management. 3 cr. Technical study of sustained yield management practices for rangelands; proper stocking and grazing systems; methods of range surveying. Prereq: Biology 130, NRES 251, CNR major or written cons instr. (II)

FOR 326/526. Amenity Forestry. 3 cr. Management of forests for nontimber values including recreation, landscape aesthetics, and urban forestry. 2 hrs lec, 2 hrs lab per wk. Prereq: Summer Camp or cons instr. (I)

FOR 327/527. Forest Protection. 3 cr. Analysis of biotic and abiotic agents, including insects, pathogens, forest fires, meteorological, edaphic and other factors impacting tree health. Principles of detection, prevention, and integrated control. 2 hrs lec, 2 hrs lab per wk. Prereq: NRES 250, Biology 130, 160, CNR major or written cons instr. (I)

FOR 328/528. Wood Technology. 3 cr. Structure of wood; identification of native woods by microscopic and macroscopic features; physical and chemical properties; uses. 2 hrs lec, 2 hrs lab per wk. Prereq: Summer Camp, CNR major or written cons instr. (I)

FOR 329/529. Harvesting Systems. 2 cr. North American tree harvesting systems: felling, limbing, bucking, forwarding, loading and hauling, analysis of safety procedures, equipment selection and maintenance, environmental implications, and cost determinations. Prereq: Summer Camp, CNR major or written cons instr. (I)

FOR 330/530. Forest Recreation Planning and Site Design. 3 cr. Analyze principles and practices of forest recreation planning, especially federal and state recreation agencies; development of 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 the temperate/boreal region with a focus on processes which determine ecosystem structure and function. Prereq: Biology 130, Summer Camp, CNR major or written cons instr.

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FOR 333/533. Urban Forestry. 2 cr. Management of trees and other vegetation in metropolitan areas to enhance the urban environment. Prereq: 232, CNR major or written cons instr. (II)

FOR 334/534. Forest Recreation and Tourism. 3 cr. How the tourism industry affects forest recreation supply and demand, public and 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 of the nature and extent of recreational use of forest environments; roles of public and private agencies in providing forest recreation; social and environmental impact of forest recreation; and principles of management and planning. (I, II)

FOR 342. Urban Trees and Shrubs. 1 cr. Identification of non-native plants and their desirable attributes for use as street trees and ornamental plantings in urban settings. Prereq: 232 or cons instr.

FOR 350/550. Contemporary Issues in Forestry. 1-3 cr. Current issues likely to influence forestry in the future. Subtitle will designate topic. May repeat for credit with different subtitles. Max of 3 cr will count toward graduation. (II)

FOR 370. Forest Products I: Wood as an Industrial Raw Material. 2 or 3 cr. The 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. (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, 2.5 GPA in major, and/or cons intern director, CNR major or written cons instr. (I, II, SS)

FOR 385/585. Applied Landscape Architecture. 2 cr. Principles of design, landscape assessment, and graphic techniques that apply to urban and rural forested landscapes. Prereq: Summer Camp or cons instr. (I, II)

FOR 394/594. Forest Recreation Seminar. 1 or 2 cr. Field observation and study of recreation planning and management problems and practices, at federal, state, and other recreation areas outside this geographical region. Prereq: 335 or cons instr. (II)

FOR 395. Tree Care Techniques. 1 cr. Maintenance of mature trees, including pruning, cabling, and removal. (I)

FOR 424. 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: Biology 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. 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: Biology 160, Forestry 232, 327; CNR major or written cons instr. (I)

FOR 428. Forest Products II: Wood Products Manufacturing. 2 or 3 cr. Advanced topics in wood products manufacturing, especially sawmill operations. Lumber green sizing, quality control, drying, grading, recovery studies. Factors affecting mill production and profits. Field trips. Optional 1 cr lab for 3 cr. Prereq: 370, or 322 and 328, CIS 102, and CNR major or written cons instr. (I)

FOR 429/629. Forest Products III: Forest Products Marketing and Advanced Manufacturing. 2 to 3 cr. Marketing of forest products including typical channels of distribution by product type, origin and end use, functions of intermediaries. Case studies. Research project in wood products manufacturing. Field trips. Optional 1 cr lab for 3 cr. Prereq: 370, 428, and cons instr. (II)

FOR 430. Landscape Construction. 3 cr. Principles of surface drainage, aesthetic landform modification, earthwork calculation, and highway alignment applied to the design of parks and institutional grounds. (I)

FOR 431/631. Tree Structure and Function. 2 cr. How tree morphology relates to tree management in the urban environment. 1

hr lec, 1 hr lab per wk. Prereq: Biology 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 with emphasis on the principal forest types of temperate 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 silviculture of New England. In-depth study of silviculture in the Appalachian, Southern, Pacific Northwest, and Rocky Mountain Regions. Prereq: 432, CNR major or written cons instr. (II)

FOR 434/634. Field Practices in Silviculture. 1-3 cr. Field techniques in silviculture, including intermediate treatments of forest stands, forest regeneration techniques, and silvicultural management of forest stands. Prereq: 432. (II)

FOR 440/640. Forest Tree Improvement. 3 cr. Distribution of genetic variation in forest tree populations; introduction, selection, progeny testing, species hybridization, and polyploidy to obtain superior tree populations. Prereq: 232 or cons instr. (II)

FOR 480/680. Forest Recreation Management. 3 cr. Formulate recreation mngt 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 or 2 cr. Spring vacation tour through area outside the upper Midwest selected for its intensive forest management and research facilities. Observe silvicultural practices, managerial programs, and wood utilization techniques. (1 cr is pass/fail; for 2 cr, complete comprehensive report.) Prereq: Cons instr. (II)

FOR 499. Special Work. Upperclass forestry students may arrange for independent study with cons associate dean. Credit will be based on the scope of the project. (I, II)

FOR 701. Survey of Forestry. 1 cr. Key elements of forest ecology, silviculture, management and amenities, and their relation to key issues in forestry at the local, national and international levels. Prereq: Certified elementary and secondary teachers only.

FOR 724. Advanced Forest Protection. 3 cr. Advanced topics in pathology, entomology, and fire science management; review of basic principles and current literature; practical experience in laboratory and field techniques. Prereq: Cons instr.

FOR 725. Advanced Forest Management/Economics. 3 cr. Advanced topics and case studies including the principles and theory of managerial and financial analysis, production economics and decision systems. Prereq: NRES 372, Forestry 425, or cons instr. (I-even years)

FOR 730. Tree Physiology. 4 cr. The principal physiological processes of trees including synthesis and use of foods, and growth phenomena. Prereq: Biology 351 and Chemistry 220 or equiv.

FOR 732. Advanced Forest Ecology and Silviculture. 3 cr. Advanced topics including ecosystem ecology, biogeochemistry, ecophysiology, ecosystem modeling, advanced decision-making in silviculture, and application of ecological principles to silviculture. Prereq: 332, 432, or cons instr. (I-even years)

FOR 796. Current Topics in Forestry. 1-3 cr. Advanced course work on a specific area in forestry. Prereq: Cons instr.

HUMAN DIMENSIONS OF NATURAL RESOURCE MANAGEMENT

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Faculty: R Champeau, P Dreier, M Dresen, T Dudiak, L Felda, R Freckmann, M Gross, R Hensler, L Klessig, R Korth, D Last, C McReynolds, G Meyer, J Passineau, P Peri, M Reigel, D Sivek, C Thomas, R Wilke, D Yockers, R Zimmerman.

Resource Management Major

1. CNR courses, 22 credits: NRES 150, 151, 250, 251, 474, 478, 490.
2. Geography 101 or Geology 104.
3. Summer Camp courses, 7 credits: Forestry 319, 320, NRES 405, Soils 359, 360, Wildlife 340, Water 380, or 8 credits of NRES 475.
4. Complete ONE of the following collateral options:
 - a. **General Resource Management**, 29 credits: Biology 130, 160, 305; Chemistry 105 and 106, or 115 and 116; NRES 357 or 473 or 484, 372. NOTE: To prepare for a professional career, we recommend that you select one or more minors to accompany this option. Suggested minors include environmental communication, environmental law enforcement, forestry, forest recreation, international resource management, soil science, water resources, wildlife.
 - b. **Environmental Education and Interpretation**, 55-60 credits: Biology 101, or 130 and 160; Biology 322, 342, 377; Chemistry 101 or 105; English 363 or 392; NRES 301, 302, 363, 364, 365, 368, 374, 376; Philosophy 380; and 9 credits from at least two of the following areas: Astronomy 311; Biology 305, 308, 355, 357, 367, 372, 374, 376, 378, 384, 385, 386, 388, 405; History 366 or 382(MNS); NRES 281, 383; Philosophy 381; Water 481.
 - c. **Land Use Planning**, 56 credits:
 - 1) Required courses: Biology 130, 160, 305; Chemistry 105 and 106, or 115 and 116; Geography 476; NRES 372, 480, 484, 495; Soils 365.
 - 2) Nine credits from Geography 276, 377 (or NRES 377), 379, 382, 479, NRES 444, 477, Math 355, Poli Sci 397, CIS (1-3 credits). NOTE: Take no more than 6 credits in any one department.
 - 3) Three credits from Forestry 326, 330, 333, 385, NRES 320, 323, 357, 371, 473, Water 382, Waste Mngt 380, 476.
 - 4) Three credits from Econ 342, Poli Sci 212, 242, 250, 304, 341, Sociology 300, 356, 357.

5. Teacher Certification Emphasis

If you seek certification to teach environmental studies at the secondary level, complete one of the above options and this emphasis, or the resource management minor in conjunction with another approved major.

- a. Teacher certification in secondary education (conservation) consists of 20 credits: Chemistry 105 or 115; NRES 301 and 302; and 9 credits from NRES 372, Geography 340, History 366, Philosophy 380, Poli Sci 304, Sociology 260.
- b. Also, complete the professional education sequence: Education 205, 337, 351, 381, 386, 390, and 398. Plus History 212 and 3 credits from History 120, 130MNS, 211, 379MNS, 382MNS, 385MNS; Instructional Resources 331; Poli Sci 201; one fine arts course; one humanities course that is literature.
- c. You must have a grade point average of 2.75 to student teach.

Resource Management Minor

Consists of 23 credits including:

1. NRES 150, 151, 250, 251, 357 or 473 or 484, and 474.
2. The remaining credits must be selected from CNR courses numbered 300 and above. Those seeking teacher certification must select NRES 478.

International Resource Management Minor

Consists of 22 credits for CNR majors and 32 credits for other majors:

1. Required courses:
 - a. NRES 323 and one of the following: NRES 381 or 475 or study abroad in a non-English speaking country.
 - b. Completion of one foreign language course beyond the second semester (102) college level.
 - c. Sociology (take one) 270, 310, 315, 322, 343, 355, 357, 373; Econ 342 or 362 or 365; Geography 113 or 120.
2. Three credits from: Anthropology 335; International Studies 101; Comm 336, 341; Econ 362, 367; Geography 300, 301, 327, 328, 340, 368; History 220; NRES 300, 478; Philosophy 380; Psychology 240, 321.
3. Non-CNR majors are also required to take: NRES 150, 151 and 250 or 251.

Land Use Planning Minor

Consists of 24 credits:

1. At least 9 credits from NRES 474, 480, 484, 495.
2. Soils 365 and Geography 476 and at least two of the following: Geography 276, 377 (or NRES 377), 379, 382, 479, NRES 444.
3. At least 3 credits from Econ 342; Poli Sci 212, 242, 250, 304, 341; Sociology 300, 356, 357.
4. Three credits (if 24 credits are not achieved from 1, 2, and 3 above) from Forestry 326, 330, 333, 385, NRES 320, 323, 357, 371, 372, 473, 477, 478, Water 382, Waste Mngt 380, 476, Wildlife 450.

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NATURAL RESOURCES COURSES

The major in **resource management** is described under that heading above.

NRES 100. Natural Resource Careers Workshop. 1 cr. Explore concepts and careers in natural resource management and environmental protection. Held at the Central Wisconsin Environmental Station. (SS)

NRES 110. Environmental Management for Homeowners. 2 cr. Practical yet economically and environmentally sound considerations of water supply and quality; home and garden management; urban wildlife and forestry; waste disposal; energy conservation; landscaping, and air quality.

NRES 150. People, Resources and the Biosphere. 3 cr. Global resource and environmental problems from a historic, socioeconomic, and biological perspective. (I, II) GDR:SS2,EL

NRES 151. Ecological Basis for Natural Resource Management. 3 cr. Basic principles of ecology and the application of those principles to management of natural resources. (I, II)

NRES 171. Elementary Surveying. 3 cr. Use tape, compass, level, and transit; U.S. land system; simple maps, traverse closure, and area computations; profiles, stadia plane table. 1 hr lec, 6 hrs lab per wk. Prereq: Math 100 or equiv trigonometry training. (I)

NRES 210. Safety Instructor Certification. 1 cr. How to teach courses in boating, hunter, and snowmobile safety, as prescribed by the Department of Natural Resources; related ethics and public controversies. Subtitle will designate area of certification. May repeat for max 3 cr with different subtitles. Prereq: So st.

NRES 250. Introduction to Fisheries, Forestry and Wildlife Resources. 4 cr. Integrated introduction to principles and practices of fisheries, forestry and wildlife management, including production of goods and services while maintaining ecosystem integrity and functions; emphasis on contemporary issues. Prereq: 150, 151, or written cons instr. (I, II)

NRES 251. Introduction to Soil and Water Resources. 4 cr. Integrated concepts of soil and water resources at the landscape level. Physical, chemical, and biological interactions relating to watershed processes and response to land use and management. Prereq: 150, 151, Math 100, Chemistry 105 or con reg, or cons instr. (I, II)

NRES 281. Camp Leadership. 2 cr. Theory and practice of camp leadership including: training camp counselors, relationship between counselor and camper, problem analysis, and program leadership skills in camp/outdoor recreational activities, waterfront management/aquatics, nature and environmental studies, arts and crafts; readings, field trips, and skills workshops. (I alt years)

NRES 301/501. Foundations of Environmental Education I (Formerly 300/500). 3 cr. Conceptual and philosophical basis for and goals of environmental ed; analysis of instructional materials; knowledge of learners; strategies for developing and implementing environmental ed programs; observation of instruction; Prereq: Jr st, CNR or biology major or written cons instr. (I)

NRES 302/502. Foundation of Environmental Education II. 3 cr. Application of environmental ed theory, philosophy, goals. Survey and use of environmental ed methods and resources. Development, application, evaluation of instructional plans and materials in formal/informal settings. Professional development and career opportunities in field. Prereq: 301/501. (II)

NRES 310/510. Environmental Education Teaching Methods. 1 cr. Strategies for teaching K-12 students about the environment using effective educational methodology. Topics include environmental values and teaching problem-solving skills. Meets DPI certification requirement in environmental ed in conjunction with Geography 339 from UWEX (correspondence).

NRES 320/520. Natural Resources and Public Relations. 3 cr. Prepare natural resources specialists for involvement with various publics, including governmental agencies, boards, and committees, professional associations, and environmental societies; identify public relations techniques and methods of evaluating public input that are 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. 1/3 of course spent as seminar focusing on specific resource issues, countries or regions of the world. Prereq: 370 for non-CNR majors. GDR:EL (II)

NRES 330. Environmental Health. 1-3 cr. Understanding the interactions between environmental quality and human health. Includes overview of types, levels and sources of environmental contaminants that affect human health; discussion of individual and community risks related to environmental contaminants; availability of personal and community environmental health resources; importance of natural environment to mental health.

NRES 335/535. Turf Management. 2 cr. Selection, establishment and management of turf grasses for parks, lawns and other recreational land uses. 1 hr lec, 2 hrs lab. Prereq: Summer Camp and/or cons instr. (I)

NRES 336. Integrated Pest Management Workshop. 1 cr. Recognition of weeds, insects, diseases, nutrient deficiencies, and other problems of agricultural and horticultural field crops.

NRES 350(MNS). American Indian Reserved Treaty Rights. 3 cr. Technological, social, and economic aspects of hunting, gathering, and fishing rights, with emphasis on current Wisconsin Chippewa experience.

NRES 357. Air Resources. 3 cr. Air chemical composition and reactions, air mass movement, contaminant transport, and meteorology. Air monitoring. Social and economic implications of air resource mgnt technology. Prereq: CNR major or written cons instr. (I, II)

NRES358/558. Biodiversity and Conservation Biology on the Web. 1 cr. Web-based course to explore background information, discuss importance, research issues, investigate threats, review values, and examine solutions in biodiversity and conservation biology. Also the effects of economics, education, politics, and lifestyle. Prereq: Cons instr for on-campus students only.

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.(II)

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 370/570. Introduction to Environmental Study and Environmental Education. 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 and rural planning. Presents an overview of K-12 environmental ed content and methods. Fulfills the Wisconsin teacher certification requirements in environmental ed. Not open to CNR majors/minors. Prereq: Admission to School of Education or written cons instr. (I, II) GDR:EL

NRES 371/571. Resource Administration. 2 cr. Administrative principles and organizational structure of private, local, state, and federal resource agencies. (I)

NRES 372/572. Resource Economics. 3 cr. Fundamental economic concepts and their application to resource use; traditional and revised theories of land use; problems of land policy management. (I, II) GDR:SS2

NRES 373/573. Agronomy. 3 cr. Grain and forage crops, with emphasis on management practices. 2 hrs lec, 2 hrs lab per wk.

Prereq: Summer Camp or cons instr. Purchase of laboratory manual required. (I)

NRES 374/574. Environmental Interpretation Practicum. 3 cr. Practice planning and implementing interpretation programs, facilities, signage, exhibits, and publications for nature centers and park visitors. One 6-hr day per wk at Schmeckle Reserve. Prereq: NRES 367 or 368 and 363, 364, 365, or con reg, CNR or biology major or written cons instr. (I, II)

NRES 376/576. Environmental Education Practicum. 4 cr. Practical experience in environmental ed with K-12 school students. Emphasizes program and staff development, program planning, instruction and evaluation. One full day per week. Prereq: 300 or 370, CNR or biology or education major with environmental ed minor or written cons instr. (I, II)

NRES 377/577. Air Photo Interpretation. 3 cr. Introduction to the use of airphotos and airphoto interpretation to inventory forest, soil, water, and wildlife resources; to identify and evaluate indicators of pollution and related evidences of environment degradation. 2 hrs lec, 2 hrs lab per wk. May not earn credit in both NRES 377 and Geography 377. (I, II)

NRES 378. Introduction to Minerals Technology. 3 cr. Survey of the extractive and processing systems used in the 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 mgnt in cooperation with private or public resource agencies. One cr for 2-4 wks, (40 hrs per wk) of work. Credits and/or addl requirements determined by instructor before registration. May repeat once for 12 cr max. Prereq: Forestry 319, 320, Soils 359, 360, Wildlife 340, and Water 380; and/or cons intern director, CNR major or written cons instr. (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 current and future issues confronting nonprofit youth agencies. (I, alternate years)

NRES 383/583. Nature Center and Camp Management. 3 cr. Principles and practices for planning, organization, and administration of nature centers and youth camps. Management of day and residential facilities analyzing issues of the master planning process, public relations, staff supervision, marketing techniques, fiscal and site management. (II, alternate years)

NRES 385. Field Techniques in Forestry, Soils, Water, and Wildlife. 2-3 cr. Field techniques used to manage and evaluate forestry, soils, water, and wildlife resources. Prereq: NRES 150, 151, 250, 251.

NRES 390/590. Nature Interpretation in Central Wisconsin. 0-3 cr. Become acquainted with and learn how to interpret the major ecological communities of Central Wisconsin, their relationship to landforms and climate, key plants and animals, their interrelationship and the effect of human activities. Subtitle will designate seasonal emphasis. May repeat for credit with different subtitles. Pay audit fee for 0 credits. (On demand)

NRES 393. Environmental Law Enforcement. 1-12 cr. Pass/fail. Environmental law enforcement practices including search, seizure, ballistics, criminal codes, evidence collection and preservation, and emergency procedures. Fulfills State of Wisconsin Law Enforcement Standards Board requirements. Offered in cooperation with state vocational and technical colleges. Prereq: CNR major or written consent of CNR associate 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 and rural planning. Not open to CNR majors or minors. (I, II) GDR:EL

NRES 400/600. Wisconsin Environmental Studies. 1 or 3 cr. Wisconsin's 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 and rural planning. Distance course, primarily for K-12 educators. Open to on-campus students with cons instr only. 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. Identification, evaluation and application of instructional resources for K-12 environmental ed. Subtitle will designate resource emphasis. May repeat for 3 cr max. Prereq: CNR major or written cons instr.

NRES 405/605. Selected Topics in Natural Resources. 1-3 cr. Major concepts and problems in an area of natural resources. May repeat for credit with different subtitles. Prereq: Cons instr. (I, II)

NRES 410/610. Selected Topics in Environmental Education. 1-3 cr. Environmental concepts and issues with an emphasis on teaching methods for K-12 teachers. May repeat for credit with different subtitles.

NRES 411/611. Principles of Environmental Education. 1 cr. Philosophy, goals, curricula, and resources for environmental ed.

NRES 412/612. Ecological Basis for Environmental Education. 1 cr. Basic ecological concepts and their relationship to understanding and evaluating environmental issues. Prereq: 411/611 or cons instr.

NRES 413/613. Citizen Action in Environmental Education. 1 cr. Strategies for involving K-12 students in citizen action on environmental issues. Prereq: 411/611 and 412/612 or cons instr.

NRES 414/614. Environmental Education Teaching Strategies. 1 cr. Planning and evaluation of environmental ed curriculum materials and teaching methods. Prereq: 411/611 and 412/612 or cons instr.

NRES 440/640. Environmental Law Enforcement Theory and Principles. 3 cr. Overview of environmental law enforcement activities with an emphasis on the theoretical basis for current enforcement practices. Prereq: Poli Sci 212, or Sociology 230, CNR major or written cons instr. (I)

NRES 444/644. Integrated Spatial Information Systems for Natural Resources Management. 3-4 cr. Comprehensive survey of modern spatial technologies available for natural resources mgnt and environmental protection. Integrate use of GIS, GPS, remote sensing, Internet, and environmental modeling for natural resources applications. 2 hrs lec, 3-4 hrs lab per wk. Prereq: Summer camp, CNR major or written cons instr.

NRES 458. Biodiversity and Conservation Biology. 3 cr. Theoretical framework for identifying threats and solutions to long-term preservation of species and biological communities; including concepts from traditional ecology, landscape ecology, population ecology, genetics, sociology and economics. Prereq: Biology 305 (I)

NRES 459/659. Ecosystem Management and Restoration. 3 cr. Methods for managing and restoring ecosystems for biological diversity and sustainable use. Prereq: 458 or Wildlife 458, CNR major or written cons instr. (II)

NRES 460. People and Ecosystems. 4 cr. Interactions between people and ecosystems and the 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.

NRES 473/673. Resource Policy and Law. 3 cr. The need for, purposes of, making of, and implementation of legislation and policy pertaining to natural resources. Prereq: CNR major or written cons instr. (II)

NRES 474/674. Integrated Resource Management. 3 cr. Current issues, problems, trends in integrated management of resources; principles used to form and implement natural resources policy. Prereq: NRES 150, 151, 250, 251; CNR major or written cons instr. (I, II)

NRES 475/675. International Environmental Studies Seminar. 2-8 cr. Survey environmental problems and programs in a selected region of the world; compare with U.S. environmental and natural resource issues. 2 wks summer camp AND 4-6 wks in Germany/Poland is an alternative to regular summer camp. Prereq: 2.50 GPA in major and cons instr.(SS)

NRES 477/677. Development of Environmental Impact Statements (EIS). 1 cr. Laws and regulations controlling EIS development; case studies; prepare and present an EIS. (I, II)

NRES 478/678. Environmental Issues Investigation and Action. 3 cr. Rationale and strategies for investigating environmental issues at local, state, regional, or national levels; selection and

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implementation of actions to resolve issues through political, economic, legal, educational, and lifestyle avenues. Group project required. Prereq: 370 or 395, CNR or biology major or written cons instr. (II)

NRES 480/680. Urban and Regional Planning Practice. 3 cr. History and analysis of major current problems facing public and quasi-public planning agencies; review of past, current, and possible solutions in area resource mgmt. (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: 474, CNR major or written cons instr. (I)

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 knowledgeable in 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 consent of the associate dean. Credit will be based on the scope of the project. Prereq: 2.50 GPA in major. (I, II)

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. Examination of personal lifestyles in light of ecological consideration. Identification of ecologically-sound lifestyles that foster environmental quality and the 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 of primary and secondary sources of information for investigating environmental issues. Strategies for issue analysis and resolution. *Not open to students who have taken 478/678.* Prereq: 570 or; 611 and 612 and 613; or con reg.

NRES 706. Community Resources in Environmental Education. 1 cr. Explore of a variety of human, cultural, technological, and natural resources that can be used to enrich environmental ed curricula; field trips to integrate environmental ed with classroom instruction. Prereq: 570 and 614 or; 611, 612, 613, and 614.

NRES 707. Computer Use in Environmental Education. 1-2 cr. Uses of computer technology to enhance environmental ed instruction in the areas of 1) environmental ed software, 2) word processing, database, and spreadsheet applications in environmental ed, 3) computer networks applicable to environmental ed, 4) environmental interactive videodiscs, and 5) environmental ed hypercard stacks. Prereq: 570 and 614 or; 611, 612, 613, and 614, and computer experience.

NRES 708. Outdoor Teaching Sites for Environmental Education. 1 cr. Relationship of current environmental ed developments to outdoor teaching sites. Philosophy, design, construction, and use of outdoor teaching sites, especially schools and school forests. Practical experiences in developing outdoor teaching site strategies.

NRES 709. Wisconsin Lakes Resources. 1 cr. Overview of natural, social, and economic factors influencing the management and quality of Wisconsin lakes.

NRES 720. Advanced Topics In Natural Resources and Public Relations. 1-2 cr. Rationale and techniques for creating positive public relations for natural resource professionals and their work. Includes public relations theory and tools for disseminating research information to effect appropriate policy decisions. Students create products that introduce their research projects through television, magazines, and the Internet. Prereq: Defined thesis topic with research underway.

NRES 744. Land and Its Human Uses. 1 cr. Uses of land emphasizing decision-making by private owners and local/state governments. Prereq: Certified elementary and secondary teachers.

NRES 750. Research in Environmental Education and Interpretation. 1 cr. Discussion of research methods, relevant literature, and current issues in environmental ed and interpretation. May repeat for 4 cr max.

NRES 760. Grant and Proposal Development. 1 cr. Development of a systematic approach to winning grants from corporate, foundation, and governmental sources.

NRES 770. Evolution of Wisconsin Natural Resource Policy. 3 cr. Investigation and analysis of the historic background, development, organization and purpose of resource mgmt agencies and policies in Wisconsin.

NRES 771. Environmental Futures. 1 cr. Understanding and applying techniques used in future studies to identify and analyze how social, scientific, and technological developments may shape the future of human interactions with the natural environment.

NRES 791. Introduction to Research. 1 cr. Explore role and value of research in society, and the ways scientific knowledge accumulates. Directed work in preparation of study plans (thesis or project proposals) and presentation of research findings. (I)

NRES 794. Graduate Seminar. 1 cr. Discussion of selected environmental and natural resource topics. Required of CNR graduate students every semester except when presenting a 795 seminar. (I, II)

NRES 795. Graduate Seminar. 1 cr. Student presentation and discussion of selected environmental and natural resource topics including results of student research. (I, II)

NRES 796. Independent Study. 1-3 cr. Advanced work on a specific natural resource problem. (I, II, SS)

NRES 797. Research Methods, Design and Analysis. 3 cr. Statistical methods of experimental design and analysis for research in natural resources. Prereq: Math 355 or Forestry 321 or cons instr. (I)

NRES 799. Thesis. (Not on Plan B.) 2-6 cr. (I, II, SS)

Natural Resources 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, International Environmental Studies Seminar, 2-8 cr.

NRES 493/693, Environmental Field Seminar, 1 or 2 cr.

SOIL 493/693, Soils Field Seminar, 1 or 2 cr.

WLDL 493/693, Wildlife Field Seminar, 1 or 2 cr.

Natural Resources Summer Camp Program

The summer camp program consists of Forestry 319, 320, Soils 359, 360, Water 380, and Wildlife 340, and NRES 405, each for 1 credit. See the description of these courses under the appropriate heading.

PAPER SCIENCE

The major in paper science, administered by the College of Natural Resources, is described under the section *Paper Science* later in this catalog.

RESOURCE MANAGEMENT

See *Human Dimensions of Natural Resource Management* earlier in this section.

SOIL & WASTE RESOURCES

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Soil and Waste Resources Major

Consists of 133 credits.

1. Required, 22 credits: NRES 150, 151, 250, 251, 490; Soils 364, 365.
2. Collateral courses, 25 credits: Chemistry 105 and 106 (or 114, 115 and 116), 220; Geology 104; Math 100, 111 or 120.
3. Complete ONE option below:
 - a. **Soil Science**
 - 1) Required, 15 credits: Soils 362, 461, 465; NRES 372, and Waste Mngt 380 or 488.
 - 2) Collateral courses, 31-33 credits: Biology 130, 160, 351; Chemistry 248; one addl 300-400 level geology or physical geography course or NRES 377; Math 355 or Forestry 321 or NRES 373; Math 101 or 119; CIS 102 or 373; 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.
 - b. **Waste Management**
 - 1) Required, 21 credits: NRES 474 or 484 or 495; Soils 461 or 465; Waste Mngt 380, 381, 476, 488; Water 383.
 - 2) Collateral courses, 17-20 credits: Biology 101, and 305 or 333; Physics 101, or 201 and 202; CIS 102 or 373 +; 3 credits from Chemistry 380, Soils 350, Water 350, or Waste Mngt 350.
 - 3) Two credits of NRES 385.
 - 4) Complete ONE track below:
 - A) Communication - Business - Political Science track:** 12 credits. (a) Communication 230 or NRES 320; (b) English 354; (c) 3 credits from CIS 365 or 372, NRES 444; Geography 476; (d) 3 credits from Poli Sci 242, 250, 304, 356, 358, Business 380, 384, Econ 311, NRES 372 or Econ 210, Philosophy 380.
 - B) Technical track:** 12 credits from Water 389, 475, 480, 481, 482, 494, NRES 357, Soils 362, 363, 461, 465.
 - 5) A minor in business or communication or water resources is strongly recommended.

Whether you are a major or minor, check with a soils adviser to determine the minimum core course requirements you need for certification as a professional and/or to take state or national exams or to obtain licenses.

Soil Science Minor

Consists of 22 credits with at least 15 credits of soils courses:

1. Required: NRES 251; Soils 362 and at least two of the following: Soils 364, 365, 465 (Forestry majors may substitute Soils 361 for one of these).
2. Select the remaining credits from: Soils 359, 360, 361, 363, 364, 365, 461, 465, 493; Forestry 325, 332; Geography 352, 377 (or NRES 377), 379, 476; Geology 200, 370; NRES 335, 336, 373, 484; Waste

Mngt 380, 476; Water 383 (or Geology 383), 487 (or Geology 487), 493; Wildlife 451. Other courses approved by the associate dean.

The soil science minor satisfies the minimum civil service requirements for soil scientist positions (classification and mapping) in federal agencies such as the Natural Resources Conservation Service and the Forest Service. For a soil conservationist position, NRES 373 is recommended.

Soil Science Concentration in the Business Administration Major

See *Business and Economics*.

Courses in Soils

SOIL 350/550. Selected Topics In Soil and Waste Resources.

1-3 cr. Selected principles, practices, and issues in soil and waste resources. May repeat under different subtitles. May apply 3 cr max to major. (I, II)

SOIL 359. Soil Conservation and Watershed Inventory

Techniques. 1 cr. Field techniques of land surface relief inventory, soil percolation, watershed interpretive systems for runoff prediction, and groundwater characteristics investigation for integrated resource mngt. Prereq: NRES 251, 2.50 GPA in major, CNR major or written cons instr. (SS)

SOIL 360. Field Experience In Soil Inventory Methods.

1 cr. Techniques in describing, mapping, classifying, and interpreting soils for integrated resource mngt. Prereq: NRES 251, 2.5Q GPA in major, CNR major or written cons instr. (SS)

SOIL 361/561. Forest Soils. 3 cr. Characteristics of and processes in soils under forest cover; relationships of these to forest growth, productivity, and management practices; human impacts. 2 hrs lec, 3 hrs lab per wk. Prereq: NRES 251, Summer Camp, CNR major or written cons instr. (II)

SOIL 362/562. Soil Genesis and Morphology. 3 cr. Geologic origin, characteristics, and taxonomic grouping of soils; survey methods and mapping procedures. 2 hrs lab, 2 hrs lab per wk. Prereq: Summer Camp, CNR major or written cons instr. (II)

SOIL 363/563. Soil Profile Description Writing. 2 cr. Field identification of soil layers and the preparation of official morphological descriptions of soil profiles and associated site factors. 1 hr lec and 2 hrs lab per wk. Prereq: Summer Camp or cons instr. (I)

SOIL 364/564. Soil and Plant Analysis. 3 cr. Sample, prepare, and analyze soil and plants. Interpret chemical results for environmental quality and soil fertility management. Choose analytical methods and maintain laboratory quality control. 2 hrs lec, 3 hrs lab per wk. Prereq: Chemistry 116 or 106, CIS 102-spreadsheet or equiv, Summer Camp, CNR major or written cons instr. (I, II)

SOIL 365/565. Soil Survey Interpretations for Land Use Planning. 3 cr. Apply soil survey information to make interpretations for various land uses such as agriculture, sanitary facilities, building sites, woodland, construction materials; identify the limitations and suitability of soils for specific planning purposes. 2 hrs lec, 2 hrs lab per wk. Prereq: Summer Camp, CNR major or written cons instr. (I)

SOIL 381/581. Internship In Soils. 1-12 cr. Supervised training program in soils management in cooperation with private or public resource agencies. One credit for 2-4 wks (40 hrs per wk) of work. Credits and/or addl requirements determined before registration. May repeat once for 12 cr max. Prereq: Forestry 319, 320, Soils 359, 360, Wildlife 340, and Water 380; or NRES 475; 2.50 GPA in major; and/or cons intern director; CNR major or written cons instr. (I, II, SS)

SOIL 455/655. Sediment Control and Site Restoration at Water Crossing Facilities. 1 cr. Designing and installing sediment control techniques at culverts, bridges, and other water-crossing structures to protect fish and other aquatic biota. Prereq: 461 or con reg, admission to CNR, cons instr.

SOIL 456/656. Erosion Control and Silt Stabilization In Construction Activities. 1 cr. Natural and technical approaches to retaining soil on site in construction activities. Includes considerations in hydraulic mulching, erosion control materials, fertilizers and species selection for revegetation. Prereq: 461 or con reg, admission to CNR, cons instr.

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SOIL 457/657. Bioengineering in Streambank and Channel Restoration. 1 cr. Design, installation and construction of bank reinforcement techniques using vegetation and associated structural materials. Prereq: 461 or con reg, admission to CNR, cons instr.

SOIL 458/658. Design and Construction of Sediment Control Structures. 1 cr. Design and construction of sediment basins, and design and installation of sediment control structures such as silt fences, berms, and buffer strips. Prereq: 461 or con reg, admission to CNR, cons instr.

SOIL 461/661. Soil Management for Resource Sustainability. 3 cr. Use soil fertility, plant nutrition, wind and water erosion, and surface and groundwater contamination abatement principles in solving soil and crop management problems. 2 hrs lec, 3 hrs lab per wk. Prereq: Summer Camp, CNR major or written cons instr. (II)

SOIL 465/665. Soil Physics. 3 cr. Basic concepts and principles related to the state and transport of matter (especially water) and energy in the soil. Physical measurement and mathematical quantification of soil physical properties and processes. 2 hrs lec, 3 hrs lab per wk. Prereq: Math 111 or 120, Physics 201, CIS 102 (spreadsheet or equiv), Summer Camp, CNR major or written cons instr. (I)

SOIL 493/693. Soil Field Seminar. 1-3 cr. Topics include investigation of soil genesis, classification and morphology, land forms, geology, vegetation, land use practices, and natural resources issues of the region visited. Written summaries of selected readings and a field notebook. Prereq: Cons instr. (II)

SOIL 496. Computer Software Application for Soils. 1 cr. Subtitle will designate type of software. May repeat for credit with different subtitle. Prereq: CIS 101 and 102 or cons instr.

SOIL 499. Special Work. Upperclass soil science students may arrange for independent study with cons associate dean. Credit will be based on the scope of the project. Prereq: Summer Camp or cons instr. (I, II)

SOIL 760. Advanced Forest Soils. 3 cr. Advanced topics on relationships between soil properties and silviculture, forest hydrology, and nursery management. Prereq: 361/561 or cons instr. (On demand)

SOIL 761. Advanced Soil Management. 1-3 cr. Advanced topics in principles of soil, water, plant relationships. Prereq: 461/661 or cons instr. (On demand)

SOIL 762. Advanced Soil Genesis, Mineralogy, and Classification. 3 cr. Processes and theories of soil information; principles and systems of soil classification. Prereq: 362/562 or cons instr. (On demand)

SOIL 763. Soil Resource Issues. 1-3 cr. Investigate issues such as food production vs. population growth, soil quality, soil erosion, point and nonpoint pollution; identify policies and agencies that are involved. Prereq: Certified elementary/secondary teachers only.

Courses in Waste Management

WSTE 350/550. Selected Topics in Soil and Waste Management. 1-3 cr. Selected principles, practices, and issues in soil and water resources. May repeat under different subtitles. May apply 3 cr max to major.

WSTE 380/580. Solid Waste Management. 3 cr. Characterization, collection, recycling/disposal of municipal, industrial, and agricultural wastes, with emphasis on the environmental effects related to disposal. 2 hrs lec, 2 hrs lab per wk. Prereq: CNR major or written cons instr. (I)

WSTE 381/581. Internship in Waste Resources. 1-12 cr. Supervised training program in waste resources mgnt in cooperation with private or public resource agencies. 1 cr for 2-4 wks (40 hrs/wk) of work. Credits and/or addl requirements determined before registration. May repeat once for 12 cr max. Prereq: Waste 380 or 476 or 488; CNR major or written cons instr. (I, II, SS)

WSTE 476/676. Hazardous Waste Management. 3 cr. Chemical, biological, and technical aspects of hazardous waste management; regulations concerning the classification, treatment, and disposal of hazardous waste; environmental health and safety issues. 2 hrs lec, 2 hrs lab per wk. Prereq: 380 or cons instr; Chemistry 116 or 106; Biology 101 or 130; CNR major or written cons instr. (II)

WSTE 488/688. Water and Wastewater Treatment. 3 cr. Nonengineering approach to methods of water treatment, routine lab testing, and protection of systems; domestic waste disposal by water

carriage and nonwater carriage methods; small unit and municipal disposal methods. Prereq: CNR or biology major or written cons instr. (II)

WSTE 489. Industrial Environmental Management. 3 cr. Regulations, economic, and technical aspects of industrial waste (air, water, solid, and hazardous) generation, alternative methods of treatment, and release of treated materials to the environment. Does not count toward waste major. Prereq: Math 120, Chemistry 106.

WATER RESOURCES

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Faculty: R Bell, M Bozek, B Browne, R Crunkilton, W DeVita, M Hansen, C Hartleb, G Kraft, W LeGrande, C Mechenich, D Mechenich, D Ozsvath, B Shaw, E Spangenberg, E Stern, R Stephens, S Szczytko, N Turyk.

Water Resources Major

Consists of 133 credits.

1. CNR courses, 23 credits: NRES 150, 151, 250, 251, 490; Water 480, 481.
2. Collateral courses, 19-20 credits: Chemistry 105-106, or 114-115-116, or 115-116; CIS (3 cr) 102, 210, or 373; Physics 201 and 202.
3. Completion of ONE of the following options:
 - a. **Limnology and Fisheries**
 - 1) Required, 57 credits: NRES 372; Biology 130, 160, 210, 281 or 285, 305, 361 (or Water 387), 374, 375; Chemistry 220; Math 111 or 120, 355; Philosophy 380; Water 389, 483 or 381, 484.
 - 2) Electives: 3-4 credits from Water 338 (or Biology 338), 387, 482, 485, 493, Biology 347, 361.
 - 3) Summer Camp, 7 credits: Forestry 319, 320; NRES 405; Soils 359, 360; Water 380; Wildlife 340.
 - b. **Water Chemistry**
 - 1) A chemistry minor. See list of requirements in **Chemistry** section earlier in this catalog.
 - 2) Required, 40 credits: Math 111 or 120; Geology 104; Water 382 (1 cr), 389, 487, 492, 383 or Waste Mngt 488; NRES 372 or Econ 210; Biology 130, 160, 305; and one of Water 387, 482, 484, 485, Biology 333 or 338.
 - 3) Summer Camp courses, 7 credits: Forestry 319, 320; NRES 405; Soils 359, 360; Wildlife 340; Water 380.
 - c. **Watershed Management**
 - 1) Required, 48 credits: Math 120 and 121; Geology 104; NRES 372 or Econ 210; Biology 130, 160, 305; NRES 377; Soils 365, 461; Water 350 (2 cr/different titles), 382 (3 cr), 389, 493.
 - 2) Summer Camp courses, 7 credits: Forestry 319, 320; NRES 405; Soils 359, 360; Wildlife 340; Water 380.
 - 3) ONE of the following:
 - (a) One course from NRES 373, Water 383, Waste Mngt 380, Geography 476; and courses to satisfy the soil minor.
 - (b) Nine credits as follows: 3 credits from Water 383, Waste Mngt 380, NRES 357, 373, Geography 476; AND 6 credits

from NRES 484, 495, Econ 342, Poli Sci 242, 304.

d. Aquatic Toxicology

- 1) Required, 46-47 credits: Chemistry 220 and 260, or 325 and 326 and 365; Math 111 or 120; 355; Water 387, 482, 494, 496; Biology 130, 160, 281 or 285 or 351, 374 or 338.
- 2) Electives, 6-7 credits from Water 382, 485, 492; Waste Mngt 488; Biology 210, 303, 305, 314, 333, 338, 361, 373, 374; Chemistry 248, 328, 340.
- 3) Take Water 381 (6 cr) **OR** Water 381 (3 cr) and Water 483 (3 cr) **OR** Summer Camp courses, 7 credits: Forestry 319, 320; NRES 405; Soils 359, 360; Wildlife 340; Water 380.

e. Groundwater

- 1) Required, 67 credits: Water 383, 389, 475, 479, 487, 495; Soils 465; Biology 101; Chemistry 220; Math 120, 121, 355; Geology 104, 106, 200, 330, 352 or 370, 385; NRES 372 or Econ 210.
- 2) Admission to the groundwater option at the beginning of your junior year is based on your (a) overall grade point average and (b) your grade point average in Geology 104, NRES 251, Chemistry 105/106 or 115/116, and Math 120. Generally the top eight students will be admitted to the option as space permits.

Water Resources Minor

Consists of 23 credits:

1. NRES 251; Water 480, 481.
2. Other water courses, 7-10 credits.
3. Select 3-6 credits from the following: Biology 305, 333, 338, 347, 375, NRES 377, 474, 477, Waste Mngt 380.

Courses in Water

WATR 199. Reading in the Discipline. 1 cr, pass/fail. Improve higher level critical reading and thinking skills.

WATR 338/538. Phycology. 4 cr. Taxonomy, morphology, and ecology of algae especially local species. Field collections, small group experiments, lab analysis of field and cultured samples, and discussion of current algal research literature. 3 hrs lec, 3 hrs lab per wk. Prereq: Biology 130, CNR or biology major or written cons instr. (Also offered as Biology 338/538.)

WATR 350. Current Issues in Water Resources. 1-3 cr. Technological, social, and economic aspects of a current water resource issue. Subtitle will designate topic. May repeat for credit under different subtitles.

WATR 380. Field Experience in Aquatic Ecosystem Evaluation. 1 cr. Fishery, limnological, and hydrological evaluation; lake and stream inventory and evaluation for integrated resource mngt. Prereq: NRES 250, 251 and 2.50 GPA in major, CNR or biology major or written cons instr. (SS)

WATR 381/581. Internship in Water. 1-12 cr. Supervised training program in watershed management, fisheries, or water quality, in cooperation with private or public resource agencies. 1 cr for 2-4 wks (40 hrs per wk) of work. Credits and/or addl requirements determined before registration. May repeat once for 12 cr max. Prereq: Forestry 319, 320, Wildlife 340, Soils 359, 360, Water 380; or NRES 475; 2.50 GPA in major; and/or cons intern director; CNR or biology major or written cons instr. (I, II)

WATR 382/582. Water Quality Management. 1 or 3 cr. 6 wks = 1 cr: review federal and state water quality control legislation and the administrative rules and procedures used to implement them. Full semester = 3 cr: add study of selected water control systems. Prereq: CNR or biology major or written cons instr.(I, II)

WATR 383/583. Hydrogeology. 3 cr. The occurrence and movement of groundwater in the geologic environment; response of aquifers to pumping wells; groundwater resource exploration, and management. 2 hrs lec, 2 hrs lab per wk. May not earn credit in both Water 383 and Geology 383. Prereq: Geology 101 or 104, NRES 250, 251, Math 120, CNR or biology major or written cons instr. (II)

WATR 387/587. Aquatic Insects. 3 cr. Collect and identify lotic and lentic insects that are important in fishery and water quality evaluations. 1 hr lec, 4 hrs lab per wk. Prereq: Biology 160, CNR or biology major or written cons instr. (I)

WATR 389/589. Hydrology. 3 cr. Physical basis of surface and subsurface water occurrence and flow; measurement, analysis, and prediction of hydrologic phenomena. 2 hrs lec, 2 hrs lab per wk. Prereq: NRES 250, 251; basic statistics course, CNR or biology major or written cons instr. (I)

WATR 391. Selected Topics in Groundwater. 1-3 cr. Selected concepts, practices, principles, and issues in groundwater hydrology, modeling, or management. May repeat under different subtitles. Prereq: NRES 251, 251; Water 389 or Geology 389; CNR or biology major or written cons instr.

WATR 450/650. Hydrologic Modeling for Planning and Design. 1 cr. Introduction to operation and requirements of surface water models used in hydrologic design and planning. Prereq: 389 or con reg; admission to CNR, cons instr.

WATR 451/651. Agricultural Hydrologic Planning and Design. 1 cr. Use of standard surface water flow and water quality models in agricultural land use planning. Prereq: 389 or con reg, admission to CNR, cons instr.

WATR 452/652. Urban Hydrologic Planning and Design. 1 cr. Use of standard urban hydrologic modeling tools for urban and suburban land use planning. Prereq: 389 or con reg, admission to CNR, cons instr.

WATR 454/654. Design of Constructed Wetlands. 1 cr. Design and construction of wetland areas for water quality control. Prereq: 389 or con reg, admission to CNR, cons instr.

WATR 455/655. Sediment Control and Site Restoration at Water Crossing Facilities. 1 cr. Designing and installing sediment control techniques at culverts, bridges, and other water crossing structures to protect fish and other aquatic biota. Prereq: Soils 461 or con reg, admission to CNR, cons instr.

WATR 456/656. Erosion Control and 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: Soils 461 or con reg, admission to CNR, cons instr.

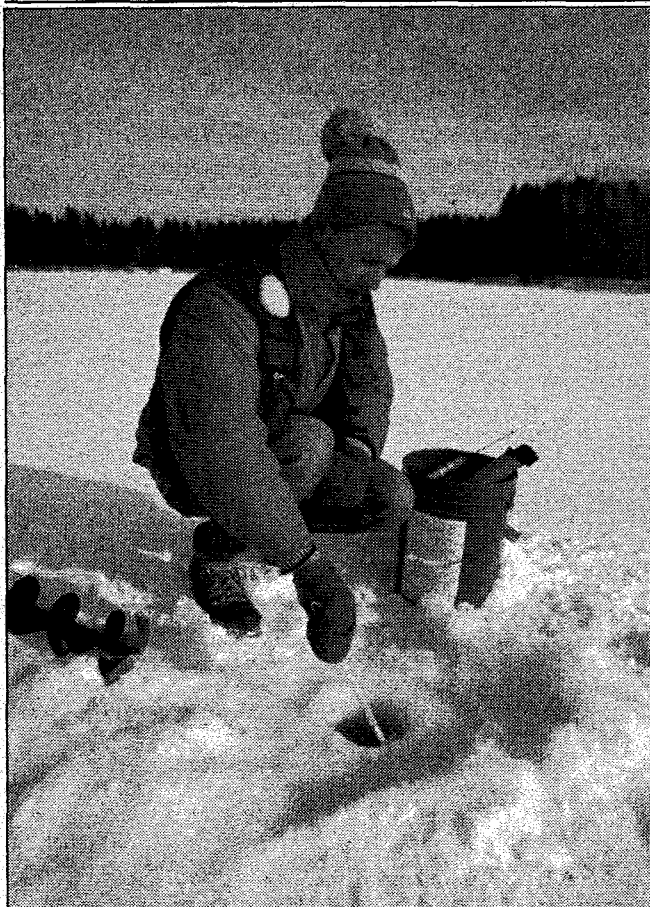
WATR 457/657. Bioengineering in Streambank and Channel Restoration. 1 cr. Design, installation and construction of bank reinforcement techniques using vegetation and associated structural materials. Prereq: Soils 461 or con reg, admission to CNR, cons instr.

WATR 458/658. Design and Construction of Sediment Control Structures. 1 cr. Design and construction of sediment basins, and design and installation of sediment control structures such as silt fences, berms, and buffer strips. Prereq: Soils 461 or con reg, admission to CNR, cons instr.

WATR 475/675. Groundwater Management. 1 cr. Principles and practices of protecting groundwater quality and supply and practices to deal with groundwater problems once they have occurred. Existing laws, regulations, and management plans; social, economic, and scientific criteria used in reaching management decisions. 1 hr lec per wk. May not earn credit in both 475 and Geology 475. Prereq: 383, CNR or biology major or written cons instr. (I)

WATR 479. Contaminant Hydrogeology. 3 cr. Physical and chemical processes affecting behavior and transport of groundwater contaminants; applications of contaminant transport models; monitoring and remediation of groundwater contamination. Prereq: Water/Geology 383; Math 120; Chemistry 106 or 116; CNR or biology major and written cons instr. (II)

WATR 480/680. Water Chemistry and Analysis. 4 cr. Study and interpretation of chemical characteristics of polluted and unpolluted waters. 2 hrs lec, 4 hrs lab per wk. Prereq: Chemistry 106 or 116, capability with spreadsheets (CIS 102 or equiv), CNR or biology major. (I, II)



WATR 481/681. Limnology. 3 cr. Physical, chemical, and biological phenomena of freshwater communities. Prereq: Biology 305, CNR or biology major or written cons instr. (I, II)

WATR 482/682. Pollution Ecology. 3 cr. Effect of physical and chemical pollution on populations of aquatic plants and animals; relationship of pollution to man, including water quality requirements for recreation, public health, agriculture, and industry. 2 hrs lec, 2 hrs lab per wk. Prereq: 481, CNR or biology major or written cons instr. (I)

WATR 483/683. Fisheries Research. 3 cr. Introduction to field and laboratory fishery research. Principles of designing research projects, testing hypotheses, sampling fish, analyzing fishery data, reporting results in both written and oral forms, and defending research. Prereq: 481; Biology 374; Summer Camp; CNR or biology major or written cons instr. (I)

WATR 484/684. Fisheries Management. 3 cr. Principles used in the assessment and management of aquatic habitats, fish populations, and human users, as they influence production of fish in inland waters. Prereq: 481; Biology 374; Summer Camp; CNR or biology major or written cons instr. (II)

WATR 485/685. Ecology of Freshwater Benthic Indicator Organisms. 3 cr. Factors affecting the distribution and micro-habitat selection of freshwater benthos including life history events, feeding mechanisms, drift, pollution biology, nutrient spiraling, and anatomical, behavioral, and physiological adaptations. Prereq: 387/587 and 481/681; or Biology 361/561; CNR or biology major or written cons instr. (II)

WATR 486/686. Fish Culture. 2 cr. Principles, problems, and technique of fish culture under artificial conditions. 1 hr lec, 2 hrs lab per wk. Prereq: 481, 484, CNR or biology major or written cons instr. (On demand)

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. (I)

WATR 492/692. Advanced Techniques of Environmental Analysis. 3 cr. Theory and application of instrumental methods used in monitoring environmental samples; laboratory quality control, sample preparation, data handling; gas and liquid chromatography, flame and flameless atomic absorption, liquid scintillation counting, autoanalyzer use. 1 hr lec, 4r hrs lab per wk. Prereq: Chemistry 248, Water 480 or Soils 364, CNR, or biology major or written cons instr. (II)

WATR 493/693. Watershed Management. 3 cr. Detailed study of the effect of land use on water quality, yield, and timing; land management practices as water resource mngt tools. Prereq: NRES 150, 151, 250, 251; CNR or biology major or written cons instr. (II)

WATR 494/694. Environmental Toxicology and Risk Assessment. 3 cr. Introduction to effects of environmental contaminants on aquatic and terrestrial organisms, quantitative methods of risk assessment and survey of contemporary literature. 2 hrs lec, 2 hrs lab per wk. Prereq: Chemistry 105, Math 355 or written cons instr. (II)

WATR 495/695. Application of Computer Modeling to Hydrogeology. 3 cr. Introduction to computer modeling with emphasis on modeling theory, groundwater flow and particle tracking models. Prereq: Water/Geology 383, Math 120, CNR or biology major and written cons instr.

WATR 496. Aquatic Toxicology (formerly 494). 2 cr. Concepts and methods for aquatic toxicology testing including examples of typical data and their interpretation. Prereq: Chemistry 220; Water 480, 481 or biology major and cons instr.

WATR 499. Special Work. 1-3 cr. Upperclass water resources students may arrange for independent study with cons associate dean. Credit will be based on the scope of the project. Prereq: CNR or biology major or written cons instr. (I, II)

WATR 750. Water Resources in Society. 1-3 cr. Examination and explanation of use and management of water resources. Prereq: Certified elementary and secondary teachers only.

WATR 780. Advanced Water Analysis. 3 cr. Chemical methods and instrumental analysis of water supplies and wastewater; laboratory management for routine testing and analysis and advanced techniques for determinations of trace elements, pesticides, and other pollutants. Prereq: 480/680 or equiv, and cons instr. (On demand)

WATR 781. Recent Advances in Pollution Ecology. 3 cr. Read and discuss recent research in pollution ecology. Analyze the research methods, results, interpretation of data; evaluate the work with respect to management of surface water supplies. Prereq: Cons instr. (On demand)

WATR 784. Advanced Studies in Fish Management. 3 cr. Survey literature concerned with the ecology and management of fish populations. Prereq: 481/681 and 484/684; or cons instr. (On demand)

WATR 785. Issues in Water Law. 3 cr. A review of state and federal legislation and case law related to water quality and distribution issues.

WATR 786. Indicator Organisms in Pollution Biology-Plant. 3 cr. Identify organisms which indicate water quality; survey important literature, methods of data analysis, and correlation with physical and chemical qualities. Prereq: 481/681, and Wildlife 441/641, and cons instr. (On demand)

WATR 789. Advanced Hydrology. 3 cr. Modeling and systems theory in analysis of water resources mngt alternatives; apply hydrologic analysis to ecological problems. 2 hrs lec, 2 hrs lab per wk. Prereq: 389 or 489 or cons instr. (On demand)

WILDLIFE

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Wildlife Major

1. Major study and approved electives to total 132 credits.
2. CNR courses, 31 credits: NRES 150, 151, 250, 251, 490; Wildlife 311, 350, 353, 451, 458.
3. Collateral courses, 60-62 credits:
 - a. Biology 130, 160, 210, 305, 342; 281 or 370; 377 or 378; 3 addl credits from: 361 or Water 387; 374, 376 (or 377 or 378 if not taken previously).
 - b. Chemistry 105 or 115; and Physics 201 or 202.
 - c. Math 111, and 355 or Forestry 321; and a minimum of 2 credits from CIS 102, 115, 210, 211, or 373.
 - d. Econ 210 or NRES 372.
 - e. Three credits from English 254, 350, 351, 354, 358.
 - f. Three credits from NRES 300, 320, 368; or Comm 211.
 - g. Three credits from NRES 371, 440, 459, 473, 474, 480, 484, 495; Poli Sci 250, 304, 354.
4. Summer Camp courses, 7 credits: Forestry 319, 320, NRES 405; Soils 359, 360, Water 380, Wildlife 340, or 8 credits of NRES 475.

Wildlife Minor

Consists of 19-20 credits:

1. NRES 250, Wildlife 353, 451, 458. (CNR Summer Camp is a prereq for Wildlife 451.)
2. Biology 377 or 378.
3. One course from Wildlife 311, 350; Forestry 332; Water 481; NRES 320, 440, 459, 473, 474; Soils 461.

Courses in Wildlife

WLDL 305/505. Selected Topics in Wildlife Ecology and Management. 1-3 cr. Selected concepts, practices, principles, and issues in wildlife mgnt. May repeat under different subtitles. Prereq: CNR or biology major or written cons instr.

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 ; CNR major or written cons instr. (II)

WLDL 340. Field Experience in Wildlife Management Techniques. 1 cr. Investigation of ecological relationships and application of selected wildlife management techniques including habitat evaluation and capturing, marking, monitoring, and censusing animals for integrated resource mgnt. Prereq: NRES 250, 2.50 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 Population Dynamics. 3 cr. Mathematical, ecological, physiological, and behavioral characteristics of wildlife population fluctuations. Use of models for characterizing fluctuations, and techniques for sampling and monitoring survival, fecundity and population size. Prereq: NRES 250; Biology 160 and 305; Math 111, and 355 or Forestry 321. (I, 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 381/581. Internship in Wildlife. 1-12 cr. Supervised training program in wildlife, in cooperation with private or public resource agencies. 1 cr for 2-4 wks (40 hrs per wk) of work. Credits and/or addl requirements determined before registration. May repeat once for 12 cr max. Prereq: Forestry 319, 320, Wildlife 340, Soils 359, 360, and Water 380; or NRES 475; 2.50 GPA in major; and/or cons intern director; CNR major or written cons instr. (I, II, SS)

WLDL 450. Human Dimensions of Wildlife and Fisheries Management. 1 cr. Survey and evaluate research relating to human dimensions of wildlife and fisheries mgnt; review of values, satisfactions, and attitudes associated with consumptive and nonconsumptive uses of wildlife and fish. Prereq: CNR major or written cons instr. (On demand)

WLDL 451/651. Management of Wildlife Habitat. 4 cr. Principles and practices of habitat mgnt for wildlife in North America. Prereq: Summer Camp, English 254, 353, 354, or 358; CNR major or written cons instr. (I, II)

WLDL 456/656. Wildlife Economics. 1 cr. Economic and other values of wildlife, fish, and outdoor recreation as they apply to environmental impact statements and mitigation of wildlife losses. Prereq: NRES 250, Econ 210 or NRES 372; CNR major or written cons instr. (On demand)

WLDL 458/658. Wildlife Ecology and Conservation Biology. 3 cr. Applying basic principles of traditional ecology, landscape ecology, genetics, and behavior to management for biological diversity; including development of critical thinking skills for evaluating and synthesizing 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 499. Special Work. Upperclass wildlife majors may arrange for independent study with consent of the associate dean. Credit will be based on the scope of the project. Prereq: CNR major or written cons instr. (I, II)

WLDL 740. Wildlife Issues Investigations. 1 cr. Application of ecological principles and management techniques to studying the 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.

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. 3 cr. Survey literature concerned with the ecology and management of terrestrial animals. Prereq: 451/651 or cons instr. (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, metapopulations, animal invasions, complex species interactions, and animals as regulators of ecosystem functioning. Emphasis on evaluating recent theories with empirical information. Prereq: 458/658 and Biology 305 or written cons instr.

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.

Natural Science (College of Letters and Science)

Don Showalter, Coordinator
Room D-146, Science Building
Phone: 715-346-3708
E-mail: dshowalt@uwsp.edu

The major in natural science may be applied toward a degree in the College of Letters and Science. It may also be used in the School of Education of the College of Professional Studies for Department of Public Instruction certification in broad-field science.

Enrollment caps are in effect for those seeking teacher certification. Please contact the natural science coordinator early for entrance requirements and application procedures. Also see information about the Professional Education Program and the secondary education curriculum for teacher certification in the *Education* section of this catalog.

Natural Science Major

Consists of 54 credits. Select ONE of the following options:

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 including Physics 203 and 204, or 150 and 250.
6. At least 14 credits must be earned in one of the areas listed in items 3, 4, or 5 above.
7. Collateral courses: 4 credits from Math 111, 118, 119, or 355.



Life Science Option:

1. A biology minor consisting of 22 credits.
2. Chemistry, 8-14 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, 105, 106, 200, 370; Astronomy 205, 206 or 311.
4. Physics, 10-14 credits including Physics 203 and 204; or 150 and 250.
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 36 credits in physical science:
 - a. A minor in either chemistry (23 credits) or physics (24 credits);
 - b. Fourteen credits in the other area.
2. Biology 130 and 160, 10 credits.
3. Earth science, 8-10 credits selected from: Geography 101, 352, 353, 354; Geology 104, 105, 106, 200, 330, 370; Astronomy 205, 206 or 311.
4. Collateral courses: For chemistry minor take Math 111 or 120; for the physics minor take Math 222.

Natural Science Broad-Field Minor

Consists of 25 credits, at least 5 from each area:

1. Earth science: Astronomy 205, 206 or 311; Geography 101, 352, 353, 354; Geology 104 and 106, 200, 330, 370.
2. Life Science: Biology 101, 130, 160.
3. Physical Science: Chemistry 101, 105, 106, 114, 115, 116; Physics 101, 203, 204, 150, 250.

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, regardless of any declaration of academic bankruptcy. Transfer credits and grades are not included when figuring your GPA; however, ALL grades are counted if you apply for teacher certification.
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.
4. **Minor:** If you wish to minor in natural science broad-field, you must have a minimum grade point average of 2.00 in all courses required for your minor, regardless of a declaration of academic bankruptcy. Only UWSP credits and grades will be used to determine grade point average.

NURSING

See *Pre-Nursing*.

NUTRITION

See *Health Promotion and Human Development*.

OUTDOOR EDUCATION

See *Natural Resources*.

OVERSEAS STUDY PROGRAM

See *International Programs* in the section of this catalog entitled *More Academic Information*.

Paper Science

(College of Natural Resources)

Larry L. Graham, Chair
Room D-274, Science Building
Phone: 715-346-4817
E-mail: lgraham@uwsp.edu

Faculty: K Biasca, L Graham, W Radue, G Ring.

Paper Science Major

Consists of major, collateral, and university general degree requirements, totaling 141 credits. (See Paper Science course listings for descriptions.)

1. Paper science courses, 48 credits: 210, 215, 314, 320, 326, 350, 355, 360, 365, 430, 440, 475, 485, 486, 490, 495.
2. Mill internship: Paper Science 300, 3 credits.
3. Chemistry 115 and 116 (or 105 and 106), 248, 325, 326, 328, 330 (or 335 and 338). (These courses satisfy the requirements for a chemistry minor.)
4. Collateral courses, 34 credits: Econ 210; Math 120, 121, 222, 320; Physics 150, 250; Natl Resources 357 or Water 481 or Waste 380, or Waste 488 or 489.

Academic Standards

1. To be accepted as a major in paper science at the beginning of your junior year, you must have a minimum grade point average of 2.75, regardless of any declaration of academic bankruptcy.
2. The 2.75 GPA is a prerequisite for any paper science course numbered 300 and above.
3. You may not apply grades of D+ or lower to satisfy prerequisites for any paper science course. You may apply to the major only one grade of D+ or below in required paper science courses and collateral requirements numbered 300 or above.
4. If you do not meet these standards, you may petition the chair of the department for consideration.

Courses in Paper Science

PAPR 101. Introduction to Pulp and Paper Processes. 3 cr. A survey of the pulping and papermaking processes with emphasis on present technology and use of raw materials; field trips to observe commercial operations. 2 hrs lec, 1 hr disc per wk.

PAPR 105. Freshman Forum. 1 cr; pass/fail. Orientation to technical and professional aspects of the paper and allied industries; presentation of information 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: Chemistry 116 or 106, or cons instr.

PAPR 215. Introduction to Process Engineering Calculations. 4 cr. Basic principles and techniques of engineering problem formulation and solution; material and energy balances, including chemical reactions and studies of advanced systems; thermodynamic properties and engineering data information management; introduction to computer modeling and simulation; applications to pulp and papermaking process engineering. Prereq: Chemistry 116 (or 106); Math 118 and 119; CIS 210; Paper Science 210; or cons instr.

PAPR 300. Mill Internship. 3 cr. Paper science majors work 10 weeks in a pulp and paper mill, with emphasis on manufacturing assignments; comprehensive report required. Prereq: Cons chair.

PAPR 314. Engineering Statistical Design and Analysis. 3 cr. Statistical methods for the design, analysis and improvement of engineering experimentation and process operation: experimental design, regression analysis, modeling, analysis of variance, and evolutionary operation. Prereq: Jr st in paper science or cons instr.

PAPR 320. Fluid Mechanics and Hydraulics. 3 cr. Properties of fluids; momentum transport phenomena; laminar and turbulent flow; measurement and control of flow; fluid machinery; engineering

calculations and design; economic factors. 2 hrs lec, 3 hrs lab/disc per wk. Prereq: 215; Math 222; Physics 150; or cons instr.

PAPR 326. Heat Transfer Operations. 3 cr. Fundamental heat transfer mechanisms: conduction, convection, and radiation; heat transfer coefficients; heat exchange equipment; evaporation and evaporator systems; drying; economic factors; applications specific to pulp and paper processes; study of field operations. 2 hrs lec, 3 hrs lab per wk. Prereq: 320 or cons instr.

PAPR 350. Wood and Pulping Technology. 4 cr. Cellulose, hemicelluloses, lignin, wood extractives, wood and fiber microstructure; commercial pulping and bleaching processes. Effective use of technical literature and presentation of information. 3 hrs lec, 3 hrs lab/disc per wk; field trips to commercial operations. Prereq: 215 and Chemistry 326.

PAPR 355. Paper and Fiber Physics. 4 cr. Fiber structure and properties; interfiber bonding; mechanical optical, chemical properties of paper; interrelations between structure, sheet formation, consolidation factors, and ultimate properties. Effective use of literature and presentation of information. 3 hrs lec, 3 hrs lab/disc per wk. Does not count toward major or minor in physics. Prereq: 350 or cons instr.

PAPR 360. Process Dynamics and Control. 3 cr. Dynamic model formulation and solution, using Laplace transform, analog, and digital computing techniques; control theories, strategies, and equipment; controller tuning; applications to pulp and paper processes; field trips. 3 hrs lec, 3 hrs lab/disc per wk. Prereq: 215 and Math 320.

PAPR 365. Colloid and Surface Phenomena. 3 cr. Principles of colloid and surface chemistry; electrokinetic and base exchange phenomena; thermodynamics of interfacial systems; adsorption; applications to coatings, flocculation, fillers, and wet end additives. Prereq: Chemistry 330 or 335.

PAPR 390. Special Topics in Paper Science. 1-3 cr. Subtitle will designate topic and number of credits.

PAPR 399. Research Problem. 1-3 cr. Upperclass paper science majors may arrange for special laboratory or field research in consultation with staff and industry with cons chair. Emphasizes problem analysis, literature searches, and communication of research results. Credit is based on the scope of the 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 Chemistry 330 or 335; or cons instr.

PAPR 445. Paper Coating and Converting. 3 cr. Pigment coating materials and processes; converting operations including laminating, corrugating, extrusion and hot melt coating; functional coatings; presentation of information by staff and guest lecturers. Prereq: Sr st in paper science or cons instr.

PAPR 475. Paper Machine Operations. 3 cr. Hydrodynamics of fibrous suspensions; dynamics of sheet formation and water removal; fundamentals of pressing; analysis of the drying process in terms of heat and mass transfer; engineering calculations performed on full scale production paper machines; field trips to paper mills and affiliated industries. 2 hrs lec, 3 hrs lab/disc per wk. Prereq: 355 or cons instr.

PAPR 485. Systems Engineering and Simulation. 3 cr. Modeling and simulation of pulp and papermaking systems; computer systems analysis; commercially available simulation hardware and software; model building for engineering systems; industrial case histories and economic systems optimization. 1 hr lec, 3 hrs lab/disc per wk. Prereq: 215, 350, 355, or cons instr.

PAPR 486. Engineering Design Project. 3 cr. Engineering economics; interest and economic equivalence; methods of

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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 presentation of project. 2 hrs lec, 1 hr disc per wk. Prereq: Cons instr.

PAPR 490. Seminar I. 1 cr; pass/fail. Orientation to technical and professional aspects of the paper industry; presentation of information by students, staff, and guest lecturers. Prereq: Sr st in paper science, or cons instr.

PAPR 495. Seminar II. 1 cr; pass/fail. Presentation and discussion of information by students, staff, and guest lecturers. Prereq: Sr st or cons instr.

Peace Studies (College of Letters and Science)

Eric Yonke, Interim Coordinator
Room 418, College of Professional Studies Building
Phone: 715-346-2458

PAX 100. Dimensions of a Peaceful World. 3 cr. An interdisciplinary study of alternatives to violence and war, including biological, psychological, economic, political, philosophical, and humanistic alternatives.

PAX 101. The Social Matrix of War. 3 cr. Economic, political, and social forces which give rise to war, and the social dislocation resulting from war.

PAX 200. Dilemmas of War and Peace. 3 cr. Introduction to peace and conflict studies. General examination of 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 230. Nonviolence. 3 cr. Philosophy, history, and strategy of various nonviolent movements, such as those of Gandhi and Martin Luther King. Prereq: So st.

PAX 240. The Personal Element in Peace. 3 cr. How a peaceful person develops, survives, and contributes to society; theories of man with emphasis on humanistic and interpersonal concepts; theories of love, love as giving meaning to life, and its expression in government and business. Prereq: So st.

PAX 250. War and the Arts. 3 cr. Images of war favorable and critical in literature, painting, and the popular arts. Prereq: So st.

PAX 300. Dimensions of a Peaceful World. 3 cr. Same as 100, for juniors and seniors.

PAX 320. Peace Movements. 3 cr. Evaluation of the history and effectiveness of selected peace movements.

PAX 330. Theories of War and Aggression. 3 cr. Various definitions of war; justifications by which men like Augustine, Clausewitz, Angell, Freud, Montagu, and others have explained war and aggression.

PAX 340. The Nuclear Arms Race and Arms Control. 3 cr. Political, economic, and technical aspects of the nuclear arms race, World War II to the present; future prospects for arms control.

PAX 350. Economics of War and Peace. 3 cr. Economic analysis of war and peace; the costs and benefits of each, their impacts on employment, inflation, growth, trade, and budgets; how present and future economic trends apply to war and peace.

PAX 370. Futures. 3 cr. Possible futures for mankind on earth; surveys of projections of observed social and scientific trends and alternative social systems relating to the question of the survival of mankind.

PAX 399. Special Work. 1-3 cr. Upperclass students may arrange for independent study with cons instr and approval by the peace studies committee of a written project proposal. Credit based on scope of the project.

PAX 490. Seminar. 3 cr. Intensive study of selected persons, movements, or problems. Subtitle will designate topic. Prereq: Cons instr.

Philosophy (College of Letters and Science)

Donald E. Fadner, Chair
Room 489, Collins Classroom Center
Phone: 715-346-3340
E-mail: dfadner@uwsp.edu
<http://www.uwsp.edu/acad/phil/>

Faculty: B Butler, C Dempsey, D Fadner, G Hardcastle, TH Johnson, A Keefe, M. Nelson, J Waligore, D Warren.

Academic Standards

1. To ensure that your program is as well planned as possible, the Philosophy Department requires each major or minor to have a departmental adviser.
2. You must have your adviser's approval on all philosophy courses you select to apply to the major or minor.
3. You may apply selected upper division religious studies courses to your philosophy major or minor if it will strengthen your program and you have your adviser's approval.
4. To be accepted and retained as a major and approved for graduation, you must have a minimum grade point average of 2.00 (2.75 to student teach) in courses counted toward the major, 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. 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.
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 specific course more than once.

Philosophy Major

Consists of a minimum of 27 credits including:

1. History: Philosophy 325, 326, and 327.
2. Logic: Philosophy 322.
3. Value theory: Philosophy 305.
4. Systematic: One course from Philosophy 306, 310, 312, 318, or 320.
5. Seminar: Philosophy 490.
6. Electives: A minimum of 6 additional credits in philosophy. These may include either Philosophy 100 or 101, but not both.

Philosophy Major with Concentration in Religious Studies

Consists of a minimum of 33 credits including:

1. History: Philosophy 325, 326, 327.
2. Logic: Philosophy 121 or 322.
3. The religious studies concentration:
 - a. **Asian religions:** Religious Studies 100 or Philosophy 105.
 - b. **Cross-cultural perspectives:** One course from Religious Studies 102, 105, 107, or 316.
 - c. **Biblical literature:** One course from Religious Studies 303, 304, or 320.
 - d. **Approaches to the study of religion:** One course from Religious Studies 301, 302, 321, or Anthropology 320.
 - e. **Capstone course:** Religious Studies 450.
 - f. **Electives:** A minimum of 6 additional credits from religious studies and one or more of the following areas: anthropology, history, and philosophy. Collateral courses must be approved by the department chair.

Philosophy Minor

Consists of a minimum of 18 credits including:

1. Critical thinking: Philosophy 121.
2. History: Two courses selected from Philosophy 325, 326, or 327.
3. One course from Philosophy 305, 306, 310, 312, or 322.
4. Electives: A minimum of 6 additional credits in philosophy.

Philosophy Major and Minor for Teacher Certification

For teacher certification a minimum of 34 credits is required for a major in philosophy, and a minimum of 22 credits for a minor; all other requirements are the same.

Philosophy Honors Program

The Department of Philosophy offers an honors program for students majoring in philosophy or philosophy with a concentration in religious studies. To apply for admission, contact the department chair if you have a 3.0 grade point average with at least 30 university credits of which six are philosophy or religious studies. The requirements are:

1. Complete all the requirements for the major with a GPA of 3.5 for courses in the major.
2. Complete a minimum of 9 honors credits in philosophy and/or religious studies courses with a grade of A Honors.
3. Complete 3 of the 9 honors credits in Philosophy 399 or Religious Studies 399, Independent Study: Honors Project.

Courses in Philosophy

PHIL 100. Introduction to Philosophy. 3 cr. Survey of important problems in philosophy such as the nature of reality, knowledge, value, God and man. 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(MNS). The Ways of Philosophy: Searching for a Worthwhile Life. 3 cr. Introduction to eastern and western ways of philosophy that have guided men and women throughout history. GDR:HU3

PHIL 105(NW). Philosophy and Religion of India and China. 3 cr. An introduction to the 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; recognition, analysis, and evaluation of arguments; selection and testing of hypotheses. 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. General introduction to some of most prominent theories of human nature. How important Eastern and Western thinkers understood the human condition and their view on how people should live. Emphasis on understanding the basic theories and their contemporary relevance. GDR:HU3

PHIL 302. Ethics and Medicine. 3 cr. A critical examination of ethical issues in medicine and health care. GDR:HU3

PHIL 303. Philosophy of Art. 3 cr. Examination of traditional and contemporary theories about the nature and function of art, the processes of artistic creation and appreciation, and philosophical problems in art criticism. GDR:HU3

PHIL 305/505. Ethics. 3 cr. A critical examination of moral concepts and representative ethical systems. GDR:HU3

PHIL 306. Philosophy of Science. 3 cr. Examine scientific theories for content and structure, explanatory function, and confirmation. 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. A study of the nature, limits, and structure of ultimate reality and its relation to the sciences.

PHIL 312. Epistemology. 3 cr. A study of nature, limits, and bases of human knowledge.

PHIL 315. Philosophy of Law. 3 cr. An examination of legal concepts, natural law, and the logic of reasoning. GDR:HU3

PHIL 318. Philosophy of Language. 3 cr. An introduction to the theories of meaning and the role played by language in man's conception of the world.

PHIL 320. Philosophy of Religion. 3 cr. Basic problems of the philosophy of religion such as the existence of God, the problem of evil, religious language, and immortality. GDR:HU3

PHIL 322. Symbolic Logic. 3 cr. Introduction to symbolic logic including truth functions, general quantification theory, scope and limits of formal logic.

PHIL325. Ancient Greek Philosophy (formerly 217). 3 cr. The pre-Socratics, Plato, Aristotle, and post-Aristotelian philosophers. GDR:HU3

PHIL 326. 17th and 18th Century Philosophy (formerly 218). 3 cr. Major philosophic movements and figures from the Renaissance through Immanuel Kant. GDR:HU3

PHIL 327. 19th and 20th Century Philosophy. (formerly 319) 3 cr.. Major philosophic movements and figures in the 19th and 20th centuries. GDR:HU3

PHIL 336. Political and Social Philosophy (formerly 220). 3 cr. Historical and contemporary analyses of fundamental concepts of political and social theory including the state, law and rights, and political obligation. Prereq: So st. GDR:HU3

PHIL 350. Feminist Philosophy. 3 cr. Surveys and analyzes the history of and contemporary directions in feminist philosophy. GDR:HU3

PHIL 380. Environmental Ethics. 3 cr. Philosophical, religious, and scientific concepts and values that have structured human attitudes toward the natural environment; alternative concepts and values will be explored. GDR:HU3 EL

PHIL 381(NW). American Indian Environmental Philosophies. 3 cr. Traditional and contemporary American Indian thought about people in relationship to the natural world with reference to Wisconsin tribes. GDR:HU3

PHIL 392. Department Internship. 1 cr; pass/fail. The intern provides small group writing and reading assistance in selected philosophy and religious studies courses. Prereq: Cons instr.

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PHIL 395/595. Philosophical Problems. 1-3 cr. A significant philosophical problem and related literature. Subtitle will designate area. Prereq: 3 cr in philosophy or cons instr.

PHIL 399. Independent Study. 1-3 cr. An independent study of a philosophical problem, theme, thinker, or period may be arranged with an instructor in consultation with the chair. Credit will be based on the scope of the 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.

For more course listings in philosophy, see the *Latent Course List* at the end of this section.

PHOTOGRAPHY

See *Art and Design*.

PHYSICAL EDUCATION

See *Health, Exercise Science, and Athletics*.

PHYSICAL SCIENCE

See *Natural Science*.



Physics

(College of Letters and Science)

David H. Tamres, Chair of Physics and Astronomy
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<http://www.uwsp.edu/acad/physics/>

Faculty: R Beeken, Jagdish Chander, B Hinaus, K Jore, R Olson, K Razdan, D Rislove, G Taft, D Tamres.

Courses in *astronomy* are listed under that title earlier in this catalog.

Academic Standards

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 toward 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 (numbered 300 and above) are open to all students who meet the prerequisites.

Test-out, 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 not take an exam more than 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.

Physics Major

1. A minimum of 37 credits including Physics 111, 150, 250, 300, 325, 326, 335, 350, 425, 426, 435, 450 and one credit of 388 or 499.
2. A minimum of 24 credits of collateral courses including Chemistry 115 and 116 (or 105 and 106); Mathematics 120, 121, 222, 320.

Physics Major for Teacher Certification

1. A minimum of 37 credits including: Physics 111, 150, 250, 300, 325, 335, 350, 450. Select the remaining credits from Astronomy 205, 206, 311 or from physics courses numbered above 300.
2. A minimum of 12 credits of collateral courses including Mathematics 120, 121, 222.

3. The Wisconsin Department of Public Instruction requires an additional 8 credits of science in another discipline for teacher certification.

NOTE: Enrollment caps are in effect for those seeking teacher certification. Please contact the Physics Department early for entrance requirements and application procedures. Also see information about the Professional Education Program and the secondary education curriculum for teacher certification in the *Education* section of this catalog.

Physics Minor

1. A minimum of 25 credits including Physics 111, 150, 250, 300 and other physics courses numbered above 300. At least one elective must include a laboratory.
2. A minimum of 12 credits of collateral courses including Mathematics 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 must register for acceptance no later than the first semester of your junior year.
2. Physics 325, 435 will be offered first semester only in 1999-2000 and 2001-02.
3. Physics 335, 425 will be offered first semester only in 2000-01 and 2002-03.
4. Physics 326, 350 will be offered second semester only in 1999-2000 and 2001-02.
5. Physics 426, 450 will be offered second semester only in 2000-01 and 2002-03.
6. You may receive credit for only one of these: Physics 100, 101, 150, 201, 203.
7. You may receive credit for only one of these: Physics 100, 101, 202, 204, 250.
8. You will not receive credit for graduation for a course if you have already successfully completed a more advanced course in a similar 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, 201
Physics 204	Physics 100, 101, 202
Physics 250	Physics 100, 101, 202, 204

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, 222, 320; Physics 150, 250, 300. Chemistry 115, 116 (or 105, 106) are also recommended. Specific engineering curricula and universities have

individual requirements. See a pre-engineering adviser for additional requirements and suggested electives. For recommended courses in prechemical engineering, see the listing under *Chemistry* earlier in this catalog.

Courses in Physics

PHYS 100. Energy in Today's World. 3 cr. Basic energy concepts; energy sources and processes; projected depletion of present resources; role of conservation, research, and development; alternatives and prospects for the future. 2 hrs lec, 2 hrs lab per wk. GDR:NS

PHYS 101. General Physics. 5 cr. Fundamental principles of physics with emphasis on application; designed for students in the elementary education curriculum, general education, communicative disorders, nutritional science, 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 major or minor in physics. Topics include careers, areas of current research, and library research techniques.

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. 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 cons instr. GDR:NS

PHYS 201. Applied Principles of Physics I. 4 cr. Selected topics in mechanics, heat, and sound. 2 hrs lec, 1 hr disc, 3 hrs lab per wk. Purchase of lab manual required. Prereq: Math 100 or equiv, or cons instr. For natural resources students.

PHYS 202. Applied Principles of Physics II. 3 cr. Selected topics in electricity, magnetism, optics, and modern physics. 2 hrs lec, 3 hrs lab per wk. Purchase of lab manual required. Prereq: 201 or equiv, or cons instr. For natural resources students.

PHYS 203. College Physics I. 5 cr. Mechanics, heat, and sound. Recommended for students in general education, biology, and premedical and related fields. 3 hrs lec, 1 hr disc, 3 hrs lab per wk. Prereq: 1 yr of high school algebra and 1 yr of high school geometry, or equiv. GDR:NS

PHYS 204. College Physics II. 5 cr. Light, electricity and magnetism, and topics in modern physics. Recommended for students in general education, biology, and 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 206. Basic Electricity. 3 cr. Electrical concepts including voltage, current, resistance, capacitance, and inductance; simple a.c. and d.c. circuits, Kirchhoff's laws and other circuit laws; instrumentation in circuit analysis. 2 hrs lec, 2 hrs lab per wk. Prereq: Math 106 or equiv, or cons instr.

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 cons instr. GDR:NS

PHYS 300. Modern Physics. 3 cr. Special relativity, quantization, Bohr atom, matter waves, Schrodinger equation, structure of nuclei, radioactivity and nuclear reactions, elementary particles. Prereq: 250.

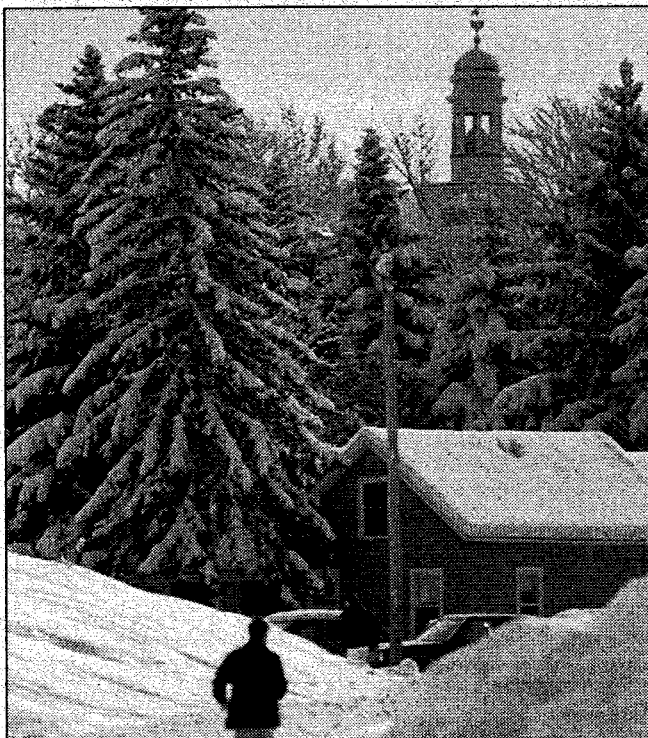
PHYS 301. Electronics. 4 cr. Theory, application and practice of solid state devices; circuits and systems using these devices. Three hrs lec, 3 hrs lab per wk. Purchase of laboratory manual is required. Prereq: 206 or equiv, or cons instr.

PHYS 302. Digital Electronics. 3 cr. Theory and operation of digital gates, flip-flop circuits, counters, shift registers, multiplexers, and analog to digital converters; applications of Boolean algebra to digital arrays, codes, coding and decoding. 2 hrs lec, 2 hrs lab per wk. Prereq: 206 or equiv, or cons instr.

PHYS 325. Electricity and Magnetism I. 3 cr. Introduction to theory of electrostatics; potentials and fields; dielectrics. Prereq: 250, Math 222.

PHYS 326. Electricity and Magnetism II. 3 cr. Magnetostatics; magnetic properties of materials; Maxwell's equations; electromagnetic radiation. Prereq: 325.

PHYS 335. Advanced Mechanics. 3 cr. Vectors; rectilinear and curvilinear motions, including simple harmonic and damped



vibrations; rotation of rigid bodies; Lagrangian mechanics. Prereq: 250, Math 222.

PHYS 350. Intermediate Laboratory. 2 cr. Experiments and laboratory practice in electricity, magnetism, and optics. 1 hr lec, 3 hrs lab per wk. Prereq: 325 or cons instr.

PHYS 381. Selected Topics. 1-3 cr. Advanced coursework in areas such as astrophysics, optics, nuclear, or solid state physics. Topic will be announced in the timetable. Prereq: Cons instr.

PHYS 388. Research Participation. 1-4 cr. Investigations of current problems in physics; 3-12 hrs lab per wk. May repeat for max of 6 cr. Prereq: Cons research supervisor.

PHYS 425. Quantum Mechanics I. 3 cr. Wave functions and operators; Schrodinger's equation; Heisenberg formulation; potential barriers and wells; angular momentum; hydrogen atom. Prereq: 300, Math 222.

PHYS 426. Quantum Mechanics II. 3 cr. Approximation methods; spin; selection rules and transitions; helium atom; diatomic molecules; applications to solid state and nuclear physics. Prereq: 425.

PHYS 435. Thermodynamics and Statistical Mechanics. 3 cr. Introduction to laws of thermodynamics and their explanation by statistical mechanics. Applications to gases, liquids and solids; boson and fermion systems; phase and chemical equilibrium. Prereq: 250, Math 222.

PHYS 450. Advanced Laboratory. 2 cr. Experiments and laboratory practice in atomic and nuclear physics. 1 hr lec, 3 hrs lab per wk. Prereq: 300 or cons instr.

PHYS 496. Independent Study. 1-4 cr. Planned study to supplement preparation in area of specialization; regular scheduled conferences with the staff supervisor. 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 the project.

PHYS 701. Physical Science. 3 or 4 cr. In-depth examination of certain developments in physical science from the standpoint of the principles involved and the impact on human thought and way of life. Open to teachers who want an introductory course in physical science.

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.

Political Science (College of Letters and Science)

Ed Miller, Chair
Room 484, Collins Classroom Center
Phone: 715-346-2688
E-mail: emiller@uwsp.edu
<http://www.uwsp.edu/acad/polisci/>

Faculty: B Brophy-Baermann, M Brophy-Baermann, J Canfield, M Cates, R Christofferson, E Miller, J Morser, D Riley, JW Wang.

Political Science Major

Consists of at least 36 credits including:

1. Poli Sci 101 and EITHER 160(NW) or 180.
2. Poli Sci 203.
3. At least 18 credits in courses numbered 300 and above.
4. At least 3 credits in four of the following five fields.
 - a. **American politics and government:** Poli Sci 212, 242, 307, 308, 310, 313, 315(MNS), 316, 317, 320, 341, 411, 412, 413, 414(MNS).
 - b. **Public policy and administration:** Poli Sci 202(MNS), 250, 304(EL), 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, 371(NW), 374.
 - e. **International politics:** Poli Sci 305(EL), 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, 313, 320, 395, 411, 412, 450; Accounting 210; English 250; Philosophy 315.

Public Policy and Administration: Poli Sci 202(MNS), 250, 354, 356, 358, 397; Computer Information Systems 101/102; Math 355.

Teacher Certification: 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 which is required for certification by the Department of Public Instruction. The DPI also requires all elementary and secondary education majors to take Poli Sci 201 or Poli Sci 101 and 242.

Political Science Minor

Consists of at least 21 credits including:

1. Poli Sci 101 and EITHER 160(NW) or 180.
2. At least 9 credits in courses numbered 300 and above.
3. At least 3 credits in four of the five fields listed above with the major.

Academic Standards

1. To graduate with a major in political science, you must earn a grade point average of 2.50 or higher (2.75 to student teach) in ALL courses taken in the major, including transfer courses, regardless of any declaration of academic bankruptcy. You may repeat a course in the major only if you follow the course repeat policy found in the **More Academic Information** section of this catalog.

2. Begin your study of political science by taking Poli Sci 101. Take 200 level survey courses before the 300-400 level courses in the various fields.
3. Courses in political science are open to all students who meet the prerequisites.

Credit-by-Exam Policy

The Political Science Department will grant credit for political science courses that satisfy general degree requirements if you demonstrate your competency on an authorized examination. You may attempt an examination only once.

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. For Poli Sci 160 you must receive a score of 3 or higher on the AP test or pass a department-authorized exam described below.

For the remaining political science courses that meet general degree requirements you will receive access to materials from the current or most recent course. The exam will be based on recent tests from the course. The instructor will evaluate your proficiency and assign a grade of P or N based on standards outlined in the course syllabus.

Courses in Political Science

POLI 101. American Politics. 3 cr. Survey of American politics and government. GDR:SS1

POLI 160(NW). Comparative Politics. 3 cr. Theories of comparative politics; study of political systems of selected Western, non-Western, and Communist countries. GDR:SS1

POLI 180. International Relations. 3 cr. Analysis of general principles and theories of international politics and organizations; emphasis on security, power, prestige, and peace. GDR:SS1.

POLI 190. Contemporary Political Issues. 1 cr; pass/fail. Critical examination of social and political implications of a major, contemporary issue. 2 hrs per wk. Subtitle will designate area. May take twice with different subtitles.

POLI 201. American Governments for Teachers. 3 cr. Survey of U.S. national, state, and local governments. For students seeking teacher certification. May not earn credit in both 201 and 101. Does not count toward a Poli Sci major or minor. GDR:SS1.

POLI 202(MNS). American Policymaking. 3 cr. Analysis of governmental policymaking; emphasis on theories of the policy process and substantive policy issues. GDR:SS1

POLI 203. Introduction to Political Analysis. 3 cr. Introduction to approaches and methods of political science research. Emphasis on research design, data collection, interpretation, and use of computers in political science. Prereq: 101 or 160 or 180 or cons instr. GDR:SS1

POLI 212. Law and Legal Systems. 3 cr. The 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 the subnational level; examination of empirical theories which seek to explain political behavior in states and communities; emphasis on Wisconsin. Prereq: So st. GDR:SS1

POLI 250. Public Administration. 3 cr. Theory and practice of public administration in the United States. Prereq: So st. GDR:SS1

POLI 270. Theories of Politics. 3 cr. Critical survey of literature, problems and solutions in political theory; nature of political man, purposes and conceptions of government, and viability of government as a social control device. Prereq: So st.

POLI 304/504. Environmental Policy. 3 cr. Environmental quality policymaking processes and policy outputs, including statutes, agency rules, and court decisions dealing with air, water, and land; technology as problem and solution; analysis of costs, results, trends. GDR:EL

POLI 305. International Environmental Politics. 3 cr. Analysis of regional and international environmental issues, and how politics plays a role in defining and posing solutions for global ecological problems. Emphasis on rationality, interdependence, and development. GDR:SS1

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 the relationship between the media and major political institutions as well as controversies surrounding the media. Prereq: 101 or cons instr.

POLI 308. Public Opinion. 3 cr. Formation, measurement, and content of American political opinions; relationship to public policies.

POLI 310. American Presidency. 3 cr. An analysis of the development of the American chief executive, with primary emphasis on the 20th century president; the nature of presidential power, its effectiveness and its limitations.

POLI 313. Judicial Process. 3 cr. The nature and role of law and of the judiciary in American democracy; basic American judicial concepts; judicial organization, selection, tenure, and procedure. Prereq: 212 or cons instr.

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 United States.

POLI 317/517. Political Corruption and Reform. 3 cr. Examination of ethical issues surrounding elections and governing. Corruption, scandals, and reform legislation. Prereq: 101.

POLI 320/520. Legislative Process. 3 cr. Analysis of the forces and procedures that determine the formation of law and public policy in the United States.

POLI 341. Urban Politics. 3 cr. Analysis of urban governments in the United States; attention to governmental structures, powers, policies, and political patterns in both 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. GDR:SS2

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. GDR:SS2

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 364/564(NW). Russian Politics. 3 cr. Political processes and governmental structure of Russia, comparison with processes and structure of the former Soviet Union. GDR:SS1

POLI 366. Nationalism and Ethno-Politics. 3 cr. National identity and nationalism: focus on connection between national identification and religion, language, ethnicity, gender, culture, and citizenship. Emphasis on impact of nationalism in post-World War II Europe and the former Soviet Union.

POLI 370(NW). Asian Politics. 3 cr. Political institutions, leadership, socioeconomic problems, and international relations of selected Asian countries. GDR:SS1

POLI 371(NW). Chinese Politics. 3 cr. Examination of the evolution, dynamics, and institutions of the political and economic system of the People's Republic of China. GDR:SS1

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POLI 372. African Politics. 3 cr. African governments and politics; interstate relations in Africa; Africa and world affairs.

POLI 374. Political Development. 3 cr. Analysis of the dynamics and processes of political transition; emphasis on issues associated with political, economic, and psychological changes in selected third world and eastern European countries.

POLI 376. International Political Economy. 3 cr. Analysis of interstate relationships with primary emphasis on the political implications of economic concerns such as trade disputes, investment penetration, and industrial protectionism.

POLI 383. U.S. Foreign Policy. 3 cr. International and internal forces underlying the foreign policy of the United States; relating U.S. aims and policies to other important states and regions of the world.

POLI 384/584. Russian Foreign Policy. 3 cr. International and internal forces underlying the foreign policy of Russia; relating Russian goals and policies to other important states and regions of the world.

POLI 385. International Organizations and Law. 3 cr. Analysis of the role, structure, and functions of contemporary international organizations, the role of international law in dispute resolution.

POLI 386. Politics of Terrorism. 3 cr. In-depth analysis of the definitions and uses of terrorism; critical review of theories and cases from a wide variety of viewpoints and situations; understanding the role of the symbol of terrorism on the broader political arena.

POLI 387. International Simulation. 1-3 cr. Simulate international interactions such as trade negotiations, peace talks, and meetings of international organizations. Students act as representatives of various governments in making policies, allocating resources, and forming alliances under different scenarios. Subtitle will designate area. May repeat for a max of 3 cr with different subtitles. Prereq: Cons instr.

POLI 391. American Political Thought to 1865. 3 cr. GDR:HU3

POLI 392. American Political Thought Since 1865. 3 cr. GDR:HU3

POLI 393/593. Early Western Political Theory. 3 cr. Critical analysis of selected political thinkers of the Western World from the pre-Socratics through the Medieval Period, such as Protagoras, Socrates, Plato, Aristotle, Cicero, St. Augustine, St. Thomas, and Machiavelli. GDR:HU3

POLI 394/594. Modern Western Political Theory. 3 cr. Critical analysis of selected political thinkers of the Western World from the Reformation to the Contemporary period, such as Luther, Calvin, Bodin, Montesquieu, Hobbes, Locke, Rousseau, Burke, Hume, Bentham, Mill, Hegel, Marx, and Lenin. GDR:HU3

POLI 395/595. Topics In Contemporary Political Theory. 3 cr. Advanced level analysis of current problems and topics in political theory.

POLI 396/596. Radical and Utopian Politics. 3 cr. Selected revolutionary movements, leading actors in revolutionary dramas, and radical and utopian blueprints of future societies.

POLI 397/597. Methods of Policy Analysis. 3 cr. Systematic methods, techniques, and tools for public policy evaluation; policy analysis as service to decision makers, analysts in the policy and political processes. Prereq: 202 or 314, statistics, or cons instr.

POLI 411/611. American Constitutional Law I. 3 cr. American constitutional development as exemplified by Supreme Court decisions; examination of selected judicial decisions interpreting the Constitution; consideration of political and governmental implications of such decisions; constitutionalism and judicial review; the commerce clause; the powers of the national executive, legislative and judicial branches.

POLI 412/612. American Constitutional Law II. 3 cr. Same as 411/611, covering civil liberties and civil rights; due process of law; equal protection of the laws.

POLI 413. Theories of Constitutional Interpretation. 3 cr. Analysis of contemporary debate concerning Constitutional interpretation and meaning.

POLI 414(MNS). Race, Poverty, Gender and the Law. 3 cr. Analysis of critical legal studies, critical race theory and feminist legal theory perspectives on the American legal system.

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. Number of credits determined by instructor.

POLI 490. Selected Problems in Political Science. 3 cr. Examination of problems in political thought or political activities. Subtitle will designate topic.

POLI 497/697. Methods of Political Science Research. 3 cr. Examine political science as a discipline by using the materials, approaches, methods, and modes of presentation of contemporary research. GDR:SS1

POLI 498. Honors Thesis. 3 cr. Preparation of research paper under direction of political science faculty member. Prereq: Nine credits of honors courses plus cons chair and supervising faculty member.

POLI 499. Special Work. 1-3 cr. Upperclass political science majors and minors may arrange for independent study with cons chair. Credit based on scope of the 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 the project.

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 an agreement with St. Joseph's Hospital, Marshfield, UW-Eau Claire, UW-Stevens Point, and the UW Colleges, you can complete a bachelor of science in nursing degree from UW-Eau Claire.

You spend the first two years at UW-Stevens Point. Following your sophomore year, you complete an eight week summer session on the UW-Eau Claire campus. You spend the last four semesters at St. Joseph's Hospital, Marshfield. This segment of nursing education consists of both didactic and practical experiences.

The nursing degree is awarded by UW-Eau Claire. General degree requirements for UW-Eau Claire are satisfied through the following courses here at UW-Stevens Point.

- 1. General education requirements:**
Communication 101.
English 101, 102.
Foreign Language, 8 credits.
Math 355.
Psychology 110, 260.
Social Sciences, 11 credits in at least 4 disciplines.
Humanities, 11 credits in at least 4 disciplines.
Wellness, 1 credit of aerobic activity (A/A) and 1 credit of health enhancement (HE).
- 2. Major support courses:** Biology 160, 285, 286, 333; Chemistry 105; Medical Technology 105, 295.
- 3. Nursing courses:** 52 credits are offered through St. Joseph's Hospital via distance education technology and through use of on-site instructors. Five credits of nursing courses must be completed during a summer session at UW-Eau Claire.

For more complete information about the prenursing program and admission to the UW-Eau Claire professional nursing program, please contact the nursing coordinator in the Medical Technology Office.

PROFESSIONAL EDUCATION PROGRAM

See *Education*.

**Psychology
(College of Letters and Science)**

Coralie E. Wells, Chair
Room D-240, Science Building
Phone: 715-346-2883
E-mail: cwells@uwsp.edu

Faculty: N Bayne, D Desforges, D Elsenrath, M Fang, A Gervasio, H Hekmat, D Henderson, JD Holmes, S Holmes, D Kortenkamp, R Lubitz, R Mosier, M Plonsky, T Rowe, P Sudevan, C Wells.

Psychology Major

Consists of 37 credits:

1. Psych 110, 300, 389 (must take 300 and 389 in order).
2. At least three courses from each group:
 - a. Psych 260, 301, 320, 351.
 - b. Psych 325, 330, 331, 375.
3. Nine additional elective psychology credits which may include courses from a and b above, not used to satisfy the particular grouping requirement.

Psychology Major with Concentration in Human Services

Consists of at least 43 credits, including:

1. The requirements for the major as defined above.
2. Psych 350, 351, 401, 402, 480, and 482. These courses may be used to fulfill the required 9 elective credits in the psychology major (3 above).

Enrollment priority for practicum courses (402, 482) goes to students who have completed 350, 351, 401, and 480.

Psychology Minor

Consists of 18 credits in psychology, including Psych 110.

Psychology Minor for Secondary Teacher Certification

Consists of 25 credits:

1. Psych 110, 300, 351, 389.
2. Choose one from each of the four groups:
 - a. Psych 260 or 320.
 - b. Psych 301 or 452.
 - c. Psych 331 or 375.
 - d. Psych 325 or 330.

Academic Standards

To be approved for graduation with a major in psychology, you need a minimum cumulative grade point average of 2.25 in all courses taken in psychology, regardless of a declaration of academic bankruptcy. Transfer students meet this requirement by having at least a 2.25 cumulative GPA in the total major and at least a 2.25 cumulative GPA in psychology courses taken at UWSP.

The School of Education requires a grade point average of at least 2.75 in the major and minor fields for admission to student teaching and 3.00 for teaching internship.

Enrollment caps are in effect for those seeking teacher certification. Please contact the Psychology Department early for entrance requirements and application procedures. Also see information about the Professional

Education Program and the Secondary education curriculum for teacher certification in the *Education* section of this catalog.

Test-out and Credit-by-Exam

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, 250, 255, 290, 315, 320, and 330 if you receive a score that is equal to or greater than 70 percent of items on the departmental test-out exam.

You are not eligible for test-out if you are currently enrolled in the course. You may take a test-out exam only once.

Courses in Psychology

PSYC 110. Introduction to Psychology. 3 cr. Introduction to the scientific study of behavior and mental processes, and methods used in psychological research. GDR:SS1

PSYC 198. Reading in the Discipline. 1 cr; pass/fail. Improve critical reading and thinking skills. Taken in conjunction with designated sections of psychology courses. Prereq: Cons instr.

PSYC 240. Psychology of Women. 3 cr. Research and theory concerned with women's personality, roles, and capacity; emphasis on socialization and sex role development. Prereq: 110. GDR:SS1

PSYC 250. Psychology of Adjustment. 3 cr. Nature of adjustment and the conditions related to mental health in normal persons. Prereq: 110. GDR:SS1

PSYC 255. Psychology of Sexual Behavior. 3 cr. Psychological aspects of sexual behaviors, responses, and attitudes, including psychosexual development, varieties of sexual experience, basic physiology, sexual problems and therapy, and psychological factors in contraception, conception, pregnancy, and childbirth. Prereq: 110. GDR:WL/HE

PSYC 260. Introduction to Developmental Psychology. 3 cr. Survey of growth and development; physical, perceptual, cognitive, linguistic, emotional, and social development; emphasis on human development from conception through adulthood. Prereq: 110. GDR:SS1

PSYC 280. Consciousness. 3 cr. Psychological-neurophysiological research and theories about various states of consciousness, such as sleep, dreams, mental imagery, and mystical states; altering consciousness through hypnosis, psychedelic drugs, biofeedback and meditation. Prereq: 110.

PSYC 285. Parapsychology. 3 cr. Empirical and theoretical analysis of abnormal (anomalous) transfer of information (extrasensory perception); anomalous physical effects (psychokinesis). Survival experiences such as out-of-body, near-death, and apparitional experiences. Reincarnation phenomena. Prereq: 110.

PSYC 290. Psychoactive Drugs and Behavior. 3 cr. Introduction to psychopharmacology; examination of effects of commonly used drugs on the central nervous system, behavior, and the motivation for administration, consumption, and abuse of legal and illegal drugs. Prereq: 110 or cons instr. GDR:WL/HE

PSYC 295. Computers in Psychology. 3 cr. Variety of computing skills specific to psychology: file management, word processing, spreadsheets, basic statistics, graphics, electronic mail, and internet. Prereq: 110.

PSYC 295. Career Development in Psychology. 1 cr; pass/fail. Exploration and preparation for careers and professions in psychology. Readings and activities to assist in understanding fields of psychology, planning for graduate school, graduate school search and application processes, curricular and extracurricular preparation for baccalaureate-level occupations, and resume development. Prereq: Psych major.

PSYC 300/500. Statistics for Psychologists. 4 cr. Calculation and interpretation of measures of central tendency, variability, correlation, and regression in psychological research; hypothesis testing and estimation from large and small samples; analysis of variance; forms of

experimental design. 3 hrs lec, 2 hrs lab per wk. Prereq: 110, and Math 100 or a suitable placement text score.

PSYC 301. Theories of Personality. 3 cr. Contemporary approaches to the study of behavior; clinical and experimental contributions to the understanding of the personality and its structure. Prereq: 110.

PSYC 315. The Psychology of Adolescence. 3 cr. Behavior of adolescents; how physiology and culture determine personality; adjustment problems youth encounter in society. Prereq: 110. GDR:SS1

PSYC 320. Social Psychology. 3 cr. Individual behavior as a function of social environment; how learning, cognition, motivation, and perception affect interpersonal behavior development. Prereq: 110. GDR:SS1

PSYC 321. Environmental Psychology. 3 cr. Empirical and theoretical relationships between human behavior and experience and the physical environment; environment perception; environmental influences on individual development and social interaction; interaction with natural and built, rural and urban environments. Prereq: 110.

PSYC 322(MNS). Cross-Cultural Psychology. 3 cr. Examination of theoretical and methodological foundations of cross-cultural psychology through study of human behavior in a broad international perspective. Prereq: 110.

PSYC 325. Physiological Psychology. 3 cr. Introduction to biological bases of behavior. Functioning of the nervous system and its relation to behavior, perception, motivation and thinking. Topics may include behavioral endocrinology, behavioral genetics, evolutionary psychology, and psychopharmacology. Prereq: 110.

PSYC 330. Perception. 3 cr. Fundamental concepts of perception involving all the senses, with emphasis on hearing and vision; experimental findings, theoretical interpretations, and demonstrations relating to perception. Prereq: 110. GDR:SS1

PSYC 331. Cognitive Psychology. 3 cr. Selections from major 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. Discussion of theoretical and experimental research in a special area 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, 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, safety, and the working environment; consumer behavior; engineering psychology. Prereq: 110.

PSYC 350/550. Theory of Psychological Testing. 3 cr. Characteristics of psychological tests; study of the most widely used intelligence, aptitude, interest, and personality tests. Prereq: 110, 300 or Math 355; or cons instr.

PSYC 351. Abnormal Psychology. 3 cr. Research-based study of the classification, causes, origins (etiology), and treatment of the major psychological disorders including anxiety and mood disorders; schizophrenia; personality disorders, childhood problems, sexual dysfunctions, and neurological disorders. Prereq: 110.

PSYC 360/560. Prevention and Modification of Behavior Problems in Children. 4 cr. Nature and origin of behavior problems in children; examination of strategies for their prevention and modification; practicum with children. Prereq: 260 or cons instr.

PSYC 375/575. Learning. 3 cr. Simple and complex learning, including conditioning, sensory-motor learning, language learning, problem solving, with 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. An introduction to the principles of experimental design with practice in conducting

research, analyzing results, and writing research reports. 2 hrs lec, 2 hrs lab per wk. Prereq: 300.

PSYC 399/599. Special Work. Upperclass psychology majors and minors and other qualified students may arrange for independent study. Credit based on scope of the project. Prereq: Cons instr and chair.

PSYC 400. Advanced Experimental Psychology. 3 cr. Theory and techniques of advanced experimental design and methods of statistical analysis; consolidation through practice and procedures acquired in 389 including independent research. 2 hrs lec, 2 hrs lab per wk. Prereq: 389.

PSYC 401/601. Introduction to Counseling and Psychotherapy. 3 cr. Major approaches to counseling and psychotherapy; theory, research, evaluation, and demonstration. Prereq: 110 and cons instr for nonmajors, 301 and 351 recommended.

PSYC 402/602. Practicum In Counseling and Psychotherapy. 3 cr. Clinical application of theory and research in counseling and psychotherapy. Development of professional ethics, attitudes, behaviors, communication, and intervention skills essential to the therapeutic interview. Student counseling interviews are videotaped and critiqued. Prereq: 401 and cons instr.

PSYC 452. History, Systems, and Contemporary Issues. 3 cr. History of major systems and areas of psychology; current trends of theory and research; a senior paper is required. Prereq: Sr st; 389 or cons instr.

PSYC 465/665. Psychology of Late Adulthood. 3 cr. Psychological processes, behavior, and aging; methods of studying the aging process; research paper or experience working with the elderly required. Prereq: 110 and cons instr.

PSYC 480/680. Behavior Modification. 3 cr. Clinical application of behavior theory and research in the treatment of phobias, anxiety, depressions, delinquencies, psychosis, language and other behavior disorders, including such topics as desensitization therapies, assertive training, token economics, biofeedback, and self-control. Prereq: 110; 351 recommended.

PSYC 482/682. Practicum In Behavior Therapy. 3 cr. Clinical application of behavior modification principles in the treatment of behavior disorders. Prereq: 480 and cons instr.

PSYC 485/685. Behavioral Medicine. 3 cr. Theory, research, and assessment of psychological factors that contribute to the causes of specific disorders. Topics may include hypertension, coronary prone behavior, obesity, pain, and sleep disorders. Prereq: 480/680 or cons instr.

PSYC 490. Seminar: Fields of Psychology. 2 or 3 cr. Discussion of psychology theory and research. Subtitle will designate area. May repeat for credit with different subtitles. Prereq: 110 and cons instr.

PSYC 491/691. Workshop. 1-5 cr. Subtitle will designate area. May repeat for credit with different subtitles.

PSYC 494. Human Services Internship. 1-6 cr. Field experience in human services agencies or activities under direction of field placement supervisors and psychology faculty. May repeat for 9 cr max. Prereq: 351, 401, psych major, jr st, 2.5 cum & psych GPA, cons instr, and con reg in 495.

PSYC 495. Human Services Internship Seminar. 1 cr. Weekly professional seminar meetings. Review professional practice standards, critique case study presentations, discuss professional ethics. Prereq: Con reg in 494.

PSYC 796. Special Work. Advanced graduate students may arrange for specialized independent study with cons instr, chair, and chair of major department. Credit based on scope of the project.

Public Administration and Policy Analysis

(College of Letters and Science)

Ed Miller, Chair of Political Science Department
 Room 484, Collins Classroom Center
 Phone: 715-346-2688
 E-mail: emiller@uwsp.edu

Public administration and policy analysis is an interdisciplinary program, offering both a major and a minor, administered by the Political Science Department. It is designed for students interested in public service or graduate education in this area.

Public Administration and Policy Analysis Major

Consists of 40 credits distributed as follows:

1. **Government**, 6 credits: Poli Sci 101, 242.
2. **Principles**, 9 credits: Poli Sci 202, 250; Econ 210.
3. **Functional areas**, 9 credits from: Poli Sci 354, 356 or Econ 311, Poli Sci 358, 450, Business 380 or 386.
4. **Tools of analysis**, 7 credits: Poli Sci 397 and 4 credits of statistics from Econ 310 or Math 355 or Psychology 300 or Sociology 351.
5. **Electives**, 9 credits selected from one of the groups listed below. A course used to fulfill a requirement in Sections 1-4 above MAY NOT also be used to fulfill a requirement in this section.
 - a. **Public policy**: Econ 315, 328; Sociology 260; Poli Sci 212, 304, 306, 308, 314, 317, 320, 414, 455.
 - b. **Public planning**: Geography 276, 370, 372, 373; Natural Resources 480; Poli Sci 341, 455; Sociology 260, 356, 357; Econ 374.
 - c. **Human resources administration**: Business 347; Econ 345, 346; Poli Sci 315, 354, 455; Psych 345, 350, 401; Sociology 270, 310, 315.
 - d. **Natural resources and the environment**: Econ 342; Geography 340, 368; History 366; Natural Resources 370, 371, 372, 473, 480; Philosophy 380; Poli Sci 304, 305, 455.
 - e. **Public finance administration**: Acct 210, 211, 312, 370; Econ 311, 328; Poli Sci 356, 358, 455.
6. **Recommended**: Poli Sci 455 internship.

Public Administration and Policy Analysis Minor

Consists of 25 credits.

1. **Government**, 6 credits: Poli Sci 101, 242.
2. **Principles**, 6 credits: Poli Sci 202, 250.
3. **Functional areas**, 6 credits from: Poli Sci 354, 356, 358, 450, Business 380.
4. **Tools of analysis**, 7 credits: Poli Sci 397 and 4 credits of statistics from Econ 310 or Math 355 or Psych 300 or Sociology 351.

Academic Standards

To graduate with a major in public administration and policy analysis, you must earn a grade point average of 2.50 or higher in ALL courses taken in the major, including transfer courses, regardless of any declaration of academic bankruptcy. You may repeat a course in the major only if you follow the course repeat policy found in the **More Academic Information** section of this catalog.

Courses in public administration and policy analysis are open to all students who meet the prerequisites.

PUBLIC RELATIONS AND ADVERTISING

See *Communication*.

REGIONAL ANALYSIS AND COMMUNITY DEVELOPMENT

See *Geography*.

Religious Studies

(College of Letters and Science)

Donald E. Fadner, Chair of Philosophy Department
 Room 489, Collins Classroom Center
 Phone: 715-346-3340
 E-mail: dfadner@uwsp.edu
<http://www.uwsp.edu/acad/phil/>

Faculty: C Demsey, D Fadner, A Keefe.

Courses in *religious studies* are administered by the Philosophy Department.

Philosophy Major with Concentration in Religious Studies

Consists of a minimum of 33 credits including:

1. History: Philosophy 325, 326, 327.
2. Logic: Philosophy 121 or 322.
3. The religious studies concentration:
 - a. **Asian religions**: Religious Studies 100 or Philosophy 105.
 - b. **Cross-cultural perspectives**: One course from Religious Studies 102, 105, 107, or 316.
 - c. **Biblical literature**: One course from Religious Studies 303, 304, or 320.
 - d. **Approaches to the study of religion**: One course from Religious Studies 301, 302, 321, or Anthropology 320.
 - e. **Capstone course**: Religious Studies 450.
 - f. **Electives**: A minimum of 6 additional credits from religious studies and one or more of the following areas: anthropology, history, and philosophy. Collateral courses must be approved by the department chair.

Religious Studies Minor

Consists of a minimum of 18 credits. At least 9 credits must be at the 300 level.

1. At least one course selected from each group:
 - a. Asian religions: Religious Studies 100 or Philosophy 105.
 - b. Western religions: Religious Studies 101, 301, 303, 304, 311, or 330.
 - c. Cross-cultural perspectives: Religious Studies 102, 105, 107, 316, 321, or Anthropology 320.
2. Electives: A minimum of 9 additional credits from religious studies and one or more from the following areas: anthropology, history, and philosophy. Collateral courses must be approved by the department chair.

Religious Studies Minor for Teacher Certification

Consists of a minimum of 22 credits including:

1. Five courses distributed as follows among three groups:
 - a. Non-Western religious traditions: Religious Studies 100; and one from Philosophy 105; Religious Studies 105, 316.
 - b. Western religious traditions: Religious Studies 101.
 - c. Religion in human life and culture: Religious Studies 102 and one from 302, 310, 311.
2. Select at least 7 additional credits, with the advice of your departmental adviser, from 300 level religious studies courses and the following collateral courses: Anthropology 320; History 316; Philosophy 105, 320. One credit must be Religious Studies 399 focusing on conceptual, pedagogical, and legal aspects of teaching religious studies in public schools.

Academic Standards

1. To ensure that your program is as well planned as possible, each major or minor is required to have a departmental adviser.
2. You must have your adviser's approval for all courses you select to apply to the major or minor.
3. To be accepted and retained as a major and approved for graduation, you must have a minimum grade point average of 2.00 (2.75 to student teach) in courses counted toward the major, 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. The chair of the department may allow exceptions. 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.
4. Courses in religious studies are open to all students who meet the prerequisites.

Courses in Religious Studies

REL 100(NW). Religions of the World: Eastern. 3 cr. A survey of the ideas and practices of major Eastern religions: Hinduism and Buddhism. GDR:HU3

REL 101. Religions of the World: Western. 3 cr. A survey of the ideas and practices of major Western religions: Judaism, Christianity, Islam. GDR:HU3

REL 102(MNS). The Ways of Religion. 3 cr. A cross-cultural survey of common patterns in religious experience and expression, with specific consideration of the distinctive religious styles created by African-Americans and American Hispanics. GDR:HU3

REL 105(NW). Myths of Creation. 3 cr. A study of the sacred stories of peoples living before or outside the Judeo-Christian spheres of influence which 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 religion, 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 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. Topics may include colonialism and

post-colonialism, millenarian movements, religion and violence, religion and politics, and global fundamentalism. GDR:HU3

REL 303. Introduction to the Old Testament. 3 cr. Study of Old Testament literature in the context of its historical and cultural background. GDR:HU3

REL 304. The New Testament and Early Christianity. 3 cr. Study of selected New Testament and extra-biblical texts to discern the religious perceptions shaping various early Christian movements. GDR:HU3.

REL 310. Religion and Moral Problems. 3 cr. Principles of religious ethics applied to specific moral problems, such as birth control, abortion, war, civil disobedience, and violence. GDR:HU3

REL 311(MNS). Religion in America. 3 cr. Examination of the beliefs, practices, and interactions of the diverse religious traditions represented in the United States (e.g. Native American, Hispanic, Protestant, African, American, Catholic, Jewish, Asian, Muslim). GDR:HU3

REL 316(MNS). Native American Religions. 3 cr. An examination of the religious ideas and practices of selected Native American tribes. GDR:HU3

REL 321. Studies in Religion. 3 cr. Topics in the study of religion in human life and culture. Subtitle will designate area. May repeat for credit with different subtitles. GDR:HU3

REL 330. Female Images and Myths in Religion. 3 cr. An investigation of attitudes toward women expressed in Western religious traditions and various responses of contemporary women to these traditions. GDR:HU3

REL 331. The Myth of the Hero. 3 cr. An analysis of the religious significance of classical and modern hero tales. GDR:HU3

REL 399. Independent Study. 1-3 cr. Individual work in religious studies on a special problem, theme, thinker, or period may be arranged with an instructor, in consultation with the chair. Credit will be based on the scope of the project.

REL 450. Selected Topics. 3 cr. Major issues in the academic study of religion and culture. Subtitle will designate topic. May repeat under different subtitles.

For more course listings in religious studies, see the *Latent Course List* at the end of this section.

Research

RSCH 798. Thesis Research. 0 cr. Continuation of thesis research of half time or more. May enroll only twice. Prereq: Approval of grad adviser and grad program coordinator.

RESOURCE MANAGEMENT

See *Natural Resources*

RETAIL STUDIES

See courses listed in the *Latent Course List*

R.O.T.C. (Reserve Officers Training Corps)

See *Military Science*.

RUSSIAN

See *Foreign Languages*.

SAFETY & HEALTH PROTECTION

See *Health Promotion and Human Development*.

Scientific and Technical Writing (College of Letters and Science)

Wm. John Coletta, Coordinator
Room 433, Collins Classroom Center
Phone: 715-346-4749
E-mail: jcoletta@uwsp.edu

An interdisciplinary minor in *scientific and technical writing* is administered by the English Department.

Scientific and Technical Writing Minor

Consists of 24 credits. At least 12 credits must be 300 level or higher.

1. Required: English 254, 349, 354, 365.
2. Required emphasis: choose 6 credits from ONE area below:
 - a. **Computer Graphics:** choose ONE sequence from:
 - 1) Communication 221, 322.
 - 2) Art 200 and 350 or 400.
 - 3) Art 400, 450.
 - 4) Art 207, and one course approved by the coordinator.
 - b. **Natural Resources:** NRES 320, 363, 364, 477.
 - c. **Natural Science:** 6 credits from science courses designated Writing Emphasis (WE), such as: Geography 380, Chemistry 338, 346, 496; Computer Information Systems 358. You may use other WE science courses toward the natural science emphasis with the approval of the coordinator of the minor.
3. Electives: 6 credits from the following selected in consultation with the coordinator: Communication 321, 365, 391; English 350, 351, 352, 358, 379, 399, 498; Forestry 350; Natural Resources 365, 370, 390, 412. You may also use courses listed in 2 above that you did not use as required courses.
4. Collateral information.
 - a. Meet the general degree requirements (GDR) for natural science by using science courses labeled 101 or above.
 - b. Computer Information Systems 101 and 102 are highly recommended.

SEMESTER ABROAD

See *International Programs* in the section of this catalog entitled *More Academic Information*.

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

Small City Analysis Minor

Consists of a minimum of 25 credits:

1. **Core courses**, 12 credits:
 - a. Required: 6-12 credits from Econ 374; Geography 373; Natural Resources 480; Poli Sci 341; Sociology 300, 356.
 - b. Electives: 0-6 credits from Forestry 333; Geography 370, 372, 378; Natural Resources 474, 495; Poli Sci 242; Sociology 357, 358, 360, 363.
2. **Analytic skills**, 9 credits:
 - a. Computer science: 3 credits from Computer Information Systems 101-102, 210, 112, 113.
 - b. Research methods: 3 credits from Econ 310; Geography 276, 476; Poli Sci 497; Sociology 351, 352; Psychology 300; Math 355.
 - c. Policy analysis/management: 3 credits from Business 380; Poli Sci 250, 397.
3. Internship or independent research on small cities: 3 credits from Poli Sci 455, 499; Sociology 497 or 498; Geography 399 or Natural Resources 499.
4. Seminar or colloquium on small cities: one credit approved by one of the coordinators.



Social Science

(College of Letters and Science)

William Skelton, Coordinator
Room 410, College of Professional Studies Building
Phone: 715-346-4490
E-mail: wskelton@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.

Social Science Major

(Without teacher certification) consists of the following:

1. Meet requirements for a minor in one of the following fields: anthropology, economics, history, political science, sociology.
2. Earn 6 or more credits in each of three social science fields listed below, but do not include the field you have selected for your minor:
 - a. Anthropology.
 - b. Economics.
 - c. Geography (human), consisting of Geography 110, plus 3 credits in human geography courses numbered 300 or above.
 - d. History (in addition to history credits necessary to meet the general degree requirements).
 - e. Political Science.
 - f. Psychology.
 - g. Sociology.
3. Sufficient additional credits to total 45 or more, with at least 15 in courses numbered 300 or above.

Broad-Field Social Science Major for Teacher Certification (grades 7-12)

Consists of a minimum of 54 social science credits from the following subjects: anthropology, economics, geography (human), history, political science, psychology and sociology. Select alternative A or B.

Alternative A:

1. A certifiable major (minimum of 34 credits) in one of the subject areas listed above and
2. A minimum of 20 credits distributed over at least two of the other social science subjects.
3. At least 12 credits must be in history and/or political science.

Alternative B:

1. A certifiable minor (minimum of 22 credits) in one of the social science subjects listed above and
2. A minimum of 32 credits distributed over at least three of the other social science subjects.
3. At least 12 credits must be in history and/or political science.

This "broad-field" social science major will permit teaching in the major field, the minor field, and the fusion courses. (The fusion courses are those drawn from several of the social science disciplines and, therefore, require a composite preparation in social science. Fusion courses include civics, social problems, American problems, area studies, vital issues, etc.) In addition, broad-field social science majors may be certified to teach in any of the social science disciplines in which they have completed 9 credits.

For certification in the "broad-field" social sciences, Wisconsin statutes require instruction in conservation and cooperatives. These requirements (normally Economics 210 or 272, and Natural Resources 370) are described in the *Education* section of this catalog.

Social Science Minor

(Without teacher certification) consists of 24 credits, 6 credits in each of the following social studies areas:

1. **Economics.** Required: Econ 210; Elective: Econ 211 or any 3 credit course numbered 300 or above approved by the social science adviser.
2. **Geography.** Required: Geography 110; Elective: any 3 credit course in human geography numbered 300 or above approved by the social science adviser.
3. **Political science.** Required: Poli Sci 101; Elective: any 3 credit course numbered 300 or above approved by the social science adviser.
4. **Sociology and anthropology.** Required: Sociology 101; Elective: any 3 credit course numbered 300 or above approved by the social science adviser.

Broad-Field Social Science Minor

This minor is open only to elementary education majors and is for DPI certification to teach grades 1-8. It consists of at least 24 credits as follows:

1. History, 9 credits: History 130 or 211; 107 or 108; and 3 credits from 215(NW), 216(NW), 219(NW), 220(NW), 253(NW), or 254(NW).
2. Political Science 160.
3. Geography 113 or 120.
4. Sociology 102.
5. At least 6 credits from Economics 210, Sociology 101, Anthropology 101.

Academic Standards

1. To graduate with a major in social science you must have a 2.0 cumulative GPA (**without** teacher certification) and a 2.75 cumulative GPA (**with** teacher certification) in all major required courses, including transfer courses, regardless of any declaration of academic bankruptcy.
2. No more than two courses for which you earned a D or D+ may be repeated for credit in the major. See the *More Academic Information* section of this catalog for the policy on repeating courses.
3. Courses in the social science major (without teacher certification) are open to all students who meet the prerequisites.
4. Enrollment caps may be enforced for admission into the professional education program for certification in broad-field social science. See your adviser or the coordinator of the program for more information.

Sociology

(College of Letters and Science)

Janis C. Weber, Chair
Room 488, Collins Classroom Center
Phone: 715-346-3060
E-mail: jweber@uwsp.edu

Faculty: J Bablitch, E Bishop, E Clark, D DeBoer, R Enright, G Itzkowitz, K McKinley, G Skelton, A Smart, K Throckmorton, J Weber, S Whipple, R Wolensky.

Sociology Major

Consists of a minimum of 34 sociology credits including:

1. Required: Sociology 101, 350, 351, 352.
2. Earn at least 18 credits in courses numbered 300 and above.
3. Complete remaining credits from any electives.
4. For teacher certification in sociology, the requirements are the same as above. Also see the **Education** section earlier in this catalog for additional requirements for teacher certification and admission to the Professional Education Program.

Sociology Emphasis Areas

In addition to a major in sociology, you may select an emphasis consisting of 12 or more credits in a specified area. Six of these credits may count toward the 34 credit major. The emphases are:

1. *Social psychology*: 310, 311, 315, 322.
2. *Deviance/social control*: 230, 306, 332, 333, 368.
3. *Family/socialization*: 224, 225, 240, 322, 343, 468.
4. *Urban/community*: 300, 355, 356, 357, 358, 360.
5. *Social work*: 261, 262, 316, 361, 362, 363, 364, 365, 376, 494, 495.

Adult Life and Aging Concentration for Sociology Majors

Consists of a minimum of 15 credits.

1. At least 9 credits from Sociology 265, 366, 367, 460, 467, 494 (in approp area), 497-499 (in approp area). Six of these credits may count toward the sociology major.
2. Cognate courses: at least 6 credits from Economics 328, Family and Consumer Education 390, Psychology 465.

Gerontology Minor

Consists of 25 credits.

1. Required: Biology 319, PEX 319, Psychology 465, Sociology 265 and 366.
2. Electives: Select 12 credits from the following. No more than 6 credits may be from any one discipline: Communicative Disorders 352, Economics 328, Family and Consumer Education 390, Food and Nutrition 458, Political Science 306, Psychology 491, Sociology 308, 328, 360, 367, 460, 467, 497-499.

Native American and Rural Social Work Minor

Consists of 31 credits.

1. Required core courses, 25 credits: Sociology 261, 316, 361, 362, 363, 365, 494, 495.
2. Electives, 6 credits from: Sociology 240, 262, 265, 270, 300, 306, 308, 310, 358, 368, 376.

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 308 and 368.
2. Electives, 9 credits, but no more than 6 credits earned in one of the disciplines below. Include a minimum of two areas.
 - a. Biology 285.
 - b. Economics 328.
 - c. Health Education 345.
 - d. Food and Nutrition 253, 351, 353.
 - e. Medical Technology 105, 295, 385.
 - f. Psychology 485.
 - g. Sociology 327, 328, 366.
3. Administration/analytical, 3 credits from: Political Science 250, 397; Sociology 352, 359.
4. Recommended, one course from Math 355, Psychology 300, Sociology 351.

Sociology Minor

Consists of a minimum of 18 credits. Sociology 101 and 350 are required. Additional credits are electives.

Sociology Minor for Teacher Certification

Consists of 25 credits.

1. Take Sociology 101, 350, 351, 352.
2. Take an additional 12 sociology credits numbered 300 or above.

Social Gerontology Concentration for Business Administration Major

See **Business and Economics** earlier in this catalog.

Academic Standards

1. To be accepted as a major or minor at the beginning of your junior year, retained and approved for graduation, 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 department chair may allow exceptions on a conditional basis.
2. You may petition the department 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 department chair may allow modifications to this rule.
3. You may take courses out of normal class level sequence only if you have approval from your adviser and instructor.
4. If you are preparing for specialized graduate studies, a professional school, or a specific career, you should request assignment to an adviser who is knowledgeable in that area to help you select your study program.

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Test-Out and Credit-by-Exam Policy

You will receive course credit for Sociology 101 if you take the Introduction to Sociology CLEP exam and receive a score equal to or greater than the 50th percentile. You must arrange to take the CLEP exam with Testing Services in Delzell Hall.

Test-out (not course credit) is available for Sociology 102, 224, 225, 230, 240, 265, 270, 300, 308, 310, 315, 316, 322, 327, 328, 343, 355, 357, 359, 360, 365, 366, 368, 370, 373. After you confer with the department chair about a course, the faculty member who teaches the course will prepare a comprehensive exam and define the passing score for you before you take the test. You may take a test-out exam only once. You are not eligible for test-out if you are currently enrolled in the course.

Courses in Sociology

SOC 100. Forum in Sociology or Social Work. 1 cr; pass/fail. Lecture and discussion of current social issues or topics in sociology or social work. Subtitle will designate area. May repeat with different subtitles for 3 cr max. 2 hrs per wk or equiv.

SOC 101(MNS). Introduction to Sociology. 3 cr. Sociology as a special field of social science, social relations, and social systems; the organization of societies and other human groupings; fundamentals of sociological investigation, dealing with the underlying premises, concepts, logic, and methods of sociology. GDR:SS1

SOC 102(MNS). Social Problems. 3 cr. Theories explaining social and personal disorganization and deviation; selected contemporary problems analyzed and related to their social contexts. GDR:SS1

SOC 224. Sociology of Childhood. 3 cr. Socialization processes in the early years; impact of social and cultural forces on child-rearing practices and outcomes; child welfare. Prereq: 101 or 102. GDR:SS1

SOC 225. Sociology of Adolescence. 3 cr. Socialization processes in the adolescent years; impact of social and cultural forces on adolescent issues and problems. Prereq: 101 or 102. GDR:SS1

SOC 230. Criminology. 3 cr. Analysis of crime as an institution, with reference to the behavior of those who define, engage in, or become the victims of criminal behavior. Prereq: 101 or 102. GDR:SS1

SOC 240. Marriage and the Family. 2 or 3 cr. Institutional variations of marriage and family; the contributions of behavioral sciences to understanding the processes of courtship and marriage interaction. Prereq: 101 or 102 and so st. GDR:SS1

SOC 261. Introduction to the Field of Social Work. 3 cr. Development of social welfare; contemporary public and private programs and appropriate settings; philosophy and principles of social work. Prereq: 101 or 102, or cons instr.

SOC 262. Social Welfare Policies and Programs. 3 cr. Development and philosophy of social welfare as an institutional system; critical analysis of programs, policies and issues; their interrelationship with other aspects of the social system. Prereq: 261 or cons instr.

SOC 265. Social Problems of Aging and Old Age. 3 cr. Analysis of problems of older people and proposed solutions; reasons for the changed position of the aged in society. Prereq: 101 or 102 or cons instr. GDR:SS1

SOC 270(MNS). Minority Groups. 2 or 3 cr. The role of minorities in society, their influence, impact, and relationship to the larger society. Prereq: 101 or 102 or cons instr. GDR:SS1

SOC 295. 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 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 302. Political Sociology. 3 cr. Empirical and theoretical analysis of the social bases, distribution, and management of political power in industrial societies. Prereq: 101 or 102 or cons instr.

SOC 305. Minority/Majority Relations. 1 cr; pass/fail. Awareness and understanding of values, lifestyles, and contributions of various minority groups including women. Discussion and lectures by faculty and guests. Prereq: Jr st or cons instr; attendance required to pass.

SOC 306/506. 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 the 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 the development of the social self in groups: interaction, perception, motivation, attitudes, values, communication, roles in interpersonal relations. Prereq: 101 or 102 or cons instr. GDR:SS1

SOC 311. Collective Behavior. 2 or 3 cr. The sociology of organized and unorganized social actions; the mob, crowd, mass behavior and social movements; the dynamics of mass persuasion. Prereq: 101 or 102 or cons instr.

SOC 312. Propaganda and Public Opinion. 3 cr. Theories and facts about propaganda and public opinion, mass communication and censorship; public opinion measurement and control. Prereq: 101 or 102 or cons instr.

SOC 315. Group Dynamics. 3 cr. Analysis of small groups including leadership and group interaction; research techniques. Prereq: 101 or cons instr. GDR:SS2

SOC 316(MNS). Child Welfare. 3 cr. Social, cultural, historical, and legal aspects of child welfare. Examination of principal child welfare services (supportive, supplementary, and substitutive), and their effects on Native American and other minority cultures. Prereq: 101 or cons instr.

SOC 322(NW). Culture and Personality. 3 cr. How literate and nonliterate cultures and subcultures affect personality development. GDR:SS1

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 of poverty in the United States; 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. GDR:SS2

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. 2 or 3 cr. Control and treatment of offenders. Prereq: 230 or 332.

SOC 340. Field Work and/or Community Research. 2-4 cr. Research or field work planned and carried out by a class (no individual research) under instructor's supervision. Subtitle will designate area. Prereq: 352 or cons instr.

SOC 343(NW). The Family: Cultural Perspectives. 3 cr. The family as a social institution, its place in different cultures and social strata, the impact of industrialization and urbanization. Prereq: 101 or 102 or cons instr. GDR:SS1

SOC 350/550. Sociological Theory. 3 cr. History, content, construction, and application of sociological theories. Prereq: 101 or cons instr.

SOC 351/551. Social Statistics. 4 cr. Descriptive and inferential statistics; use statistical software to analyze sociological data. 3 hrs lec, 2 hrs lab per wk. Prereq: Math 100 or equiv, Sociology 101, 350 or cons instr.

SOC 352/552. Research Methods. 3 cr. Examine and apply social research processes from problem formulation to data analysis; includes computer applications. Prereq: 350 and 351 or cons instr.

SOC 355. Environmental Sociology. 3 cr. Sociological perspectives on relationships between society and the natural environment emphasizing causes and consequences of natural resource depletion and environmental degradation. Prereq: 101, or cons instr or jr st. GDR:SS2 EL

SOC 356. Urban Sociology. 3 cr. Comparative and historical approach to cities; urban spatial structure, temporal patterns and population characteristics; ecological factors; the 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. GDR:SS2

SOC 358. Regional Sociology. 2 or 3 cr. Study of area-based statistical indices and characteristics, rural patterns and limits of urban dominance, and evidence of continuing historic and ethnic tradition as they are used to develop convenient units for social, cultural, and subcultural analyses. Prereq: 101 or 102 or cons instr.

SOC 359. Bureaucracy. 3 cr. Analysis of the structure and functioning of complex organizations in contemporary society. Prereq: 101 or 102 or cons instr. GDR:SS2

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 361/561. Social Work Methods: Casework and Group Work. 3 cr. Principles of generic social work in microsystems; concepts and casework practice with individuals and families, interviewing, relationships, social diagnosis, and treatment; group work practice, principles of model development, diagnosis, and treatment. Prereq: 261.

SOC 362. Social Work Methods: Community Organization and Social Service Administration. 3 cr. Principles of generic social work in macrosystems including planning, action, and advocacy; social service administrative concerns including relationships between organizations, and issues within the organization including supervision, consultation, research, and continuing education. Prereq: 261.

SOC 363. Rural Social Work. 3 cr. Evaluation of nonmetropolitan, regional social services and delivery systems; characteristics of rural populations and community analysis; concept and function of generalist social worker in nonmetropolitan areas. Prereq: 261 or cons instr.

SOC 364. Orientation to Native American Social Work. 3 cr. Introduction to values, beliefs, customs, and histories of Native Americans emphasizing Wisconsin tribal nations and their social service needs. Prereq: 261.

SOC 365(MNS). Social Work with Native American and Other Culturally Diverse Families (formerly 364). 3 cr. Awareness and understanding of Native American values and lifestyles; principles of social work that apply to problems affecting Native American and other culturally diverse families. Prereq: 261.

SOC 366. Sociology of Aging. 3 cr. Sociological theories and methods used to study aging; processes affecting the social status of older people and social attitudes toward them; the impact of increasing numbers of elderly on institutions of American society. Prereq: 101 or 102 or cons instr. GDR:SS2

SOC 367. Sociology of Middle Age. 3 cr. Analysis of the relationship between social institutions and middle-aged persons and predictable midlife events. Prereq: 101 or 102 or cons instr.

SOC 368/568. 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). Processes of Sociocultural Change. 3 cr. Theories, problems, and processes of social and cultural change in various cultures resulting from internal or external social forces. GDR:SS1

SOC 373. Technology and Contemporary Social Problems. 3 cr. Examination of the social, cultural, and personal consequences of developments in selected technologies. A subtitle will designate area. May NOT repeat for credit under different subtitles.

SOC 376. Human Behavior and the Social Environment. 3 cr. Theories of interaction between individuals and the social environment that apply to the practice of social work. Prereq: 261.

SOC 395. Special Topics in Sociology. 1-3 cr. Subtitle will designate area. May repeat for credit with different subtitles. Prereq: 3 cr in sociology or cons instr.

SOC 460/660. Sociology of Work, Leisure, and Retirement. 3 cr. The nature and function of work, retirement as a process,

preparation for and adjustment to retirement. Prereq: 9 cr in the social sciences or cons instr.

SOC 467/667. Social Gerontology. 3 cr. Critical issues in social gerontology; emphasis on industrialized societies; analysis of techniques for implementing programs and policies relating to the older-population. Prereq: 9 cr in the social sciences or cons instr.

SOC 468/668. Problems in Family Interaction. 3 cr. Examine contemporary family problems. Prereq: 9 cr in the social sciences or cons instr.

SOC 490/690. Seminar: Fields of Sociology. 2 or 3 cr. How sociological theory and research apply to general and special areas of study. Subtitle will designate area. May repeat for credit with different subtitles. Primarily for majors. Prereq: 9 cr in the social sciences or cons instr.

SOC 494. Social Work Practicum. 1-6 cr. Observation and social work practice under the guidance of cooperating field placement supervisors in an approved social service agency; emphasis on guided social work. Sociology majors may apply for placement with cons field coordinator and chair. Prereq: 361 and con reg in 495.

SOC 495. Social Work Practicum Seminar. 1 cr. Weekly meetings of students taking 494 to discuss the application of social work practice theory to the agency setting, and to increase knowledge of and identification with the social work profession. May repeat for 4 cr max. Prereq: Con reg in 494.

SOC 497-499. Special Work. Each 1-3 cr. Upperclass sociology majors or minors may arrange for independent study with cons chair. Credit based on scope of the project. May apply 6 cr max to major.
497. Sociological Analysis and Research.
498. Social Work and Social Administration.
499. Sociology of Knowledge.

SOC 760. Seminar In Adult Development and Socialization. 2 or 3 cr. Advanced study of adult development and socialization topics. For persons interested in development and administration of midlife and late maturity programs. Prereq: 9 cr in the social sciences or cons instr.

SOC 796. Independent Study. 1-3 cr. Designed to supplement preparation in area of specialization. Prereq: 9 cr in the social sciences and cons chair.

SOC 799. Thesis. 2-6 cr.

For more course listings in sociology, see the *Latent Course List* at the end of this section.

SOIL and WASTE RESOURCES

See *Natural Resources*.

SPANISH

See *Foreign Languages*.

SPEECH

See *Communication*.

SPEECH PATHOLOGY AND AUDIOLOGY

See *Communicative Disorders*.

SPECIAL EDUCATION

See *Education and/or Health, Exercise Science, and Athletics*.

STUDENT TEACHING

See *Education*.

TEACHER CERTIFICATION

See *Education*.

Technology and New Media Arts

(College of Fine Arts and Communication)

Roger Bullis, Coordinator
Room 228, Communication Arts Center
Phone: 715-346-2879
E-mail: rbullis@uwsp.edu

Technology and New Media Arts (TNMA) Minor

This interdisciplinary minor is open to all university students. To declare the minor, contact the coordinator and fill out the appropriate form. Consists of 21 credits:

1. **Required:** TNMA 100, 110.
2. **Arts creation.** Take 6 cr (outside of your declared major) selected from: Art 103, 207, 215, 234, 236, 309; Theatre 241, 242, 243; Music 109; Communication 250, 253, 322, 365; English 253, 349, 353, 359.
3. **Multimedia production,** 3 cr: Select Communication 306 or courses listed in 4. below.
4. **Advanced multimedia production,** 3 cr: Select from Art 410; Communication 307; TNMA 308, 309.
5. **Senior project,** 3 cr: TNMA 400.

Courses in Technology and New Media Arts

TNMA 100. Creativity and the Arts. 3 cr. Creation across artistic media and genres. The nature of the artistic experience; aesthetic and design principles, theories and issues as expressed in art, theatre, dance, music, film, video and computer media. GDR:HU1

TNMA 110. Introduction to the Internet, Technology, and New Media Arts. 3 cr. World Wide Web understanding, appreciation, issues and content production. Basic computer graphics, Web page creation and design, and multimedia skills and issues. Technology trends including research, copyright, privacy, and censorship.

TNMA 308/508. 3-D Computer Graphics. 3 cr. Development of 3-D computer-modeling skills as well as introductory animation skill development. Emphasis on theory of design principles (scale and proportion, 3-D composition, color, etc.) as applied to 3-D computer simulated environments. Prereq: 100, 110, or cons instr.

TNMA 309/509. Advanced 3-D Computer Graphics and Video Animation. 3 cr. 3-D animation techniques and skills; development of visually stimulating imagery and creation of unified designs within 3-D environments. Character animation and digital video editing transfer and techniques. Projects based on student interest for use in broadcasting (advertising, promos, etc.), interactive game sequences, architectural walk-throughs, and accident re-creation. Prereq: 308 or cons instr.

TNMA 400. Senior Project. 3 cr. Development of a collaborative project. Prereq: All preceding requirements of TNMA minor.

TNMA 499. Independent Study. 1-3 cr. Independent study in technology and new media arts issues. Prereq: Cons instr.

TECHNICAL WRITING

See *Scientific and Technical Writing*.

Theatre and Dance

(College of Fine Arts)

Arthur Hopper, Chair
Room B-109, Fine Arts Building
Phone: 715-346-4429
E-mail: ahopper@uwsp.edu

Faculty: M Fehrenbach, S Gingrasso, A Hopper, K Horwitz, J Karlen, E Margolis, JS Moore, R Nelson, T Nevins, G Olsen, J Shepard, Steven Sherwin, Susan Sherwin.

Recognized as one of the premiere undergraduate theatre and dance departments in the upper Midwest, the department is an accredited member of the National Association of Schools of Dance and the National Association of Schools of Theatre.

Program Options

Department majors may pursue either the bachelor of arts (B.A.) or bachelor of science (B.S.) degree in theatre arts with options in dance or drama.

The bachelor of fine arts (B.F.A.) is available if you wish to pursue a major in theatre arts with a specialization in acting or design/technology or the musical theatre option. Minors are available in dance and drama. There is no musical theatre minor.

Academic Standards

To graduate with a major in Theatre Arts (dance, drama, or musical theatre options) you must achieve a minimum cumulative 2.0 grade point average in all required major courses, 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.

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 who will arrange an exam with the appropriate faculty member. If credit is granted, results will be forwarded to Registration and Records.

Transferring Credits

Transfer credits may be applied to the major or minor with the approval of the department chair.

Annual Meetings

Department meetings are held in the fall semester for all majors and minors to prepare you for the academic year.

Advising

Department majors and minors are assigned faculty advisers whose specialty matches the student's area of interest. The dance coordinator advises all new and transfer dance majors and minors during the first year. Thereafter, students are assigned to one of the other dance faculty. BFA students are advised by the program head of their particular major. Drama majors are advised by the department chair or other drama faculty.

Scholarships

A limited number of scholarships are available to entering students in dance, design/technology, and musical theatre. Contact the theatre and dance office for information about the annual scholarship auditions. Scholarships are also available for continuing students.

Required Production Activity

For Majors: Enroll in a production activity **each semester.**

Production activity areas are scene shop, costume shop, deck run crew, costume run crew, house/public relations, design, performance, directing/choreography/management. You may repeat an area after you have completed 6 different activities.

For Minors: Enroll in a different production activity **once each year.** You may not repeat an area.

For Majors and Minors:

1. Run crew must work appropriate rehearsals and the run of the show.
2. Other activities must complete 40 hrs work.
3. Credit for production activities includes Dance 126, 226, 326, 426, or Theatre 126, 226, 326, 426, as appropriate.
4. If you do not enroll for a production activity or do not complete the activity satisfactorily, you will be placed on probation and must make up the missed work in the next semester. If you must make up missed work, you must also enroll in a production activity for the current semester. If the work is not made up, you will be dropped from the major or minor.
5. Normally a production activity may only count in the current semester. If a production occurs unusually late in a semester, the production activities for that production may count for the following semester.

DANCE

Susan Gingrasso, Dance Coordinator
 Room B106, Fine Arts Center
 Phone: 715-346-2500
 E-mail: sgingras@uwsp.edu

About the dance program

The UWSP dance program emphasizes a technical core of ballet, jazz, and tap. Other courses are composition, movement theory, dance history, lighting design, dance education, and modern dance. Unique to our program is the student-designed interdisciplinary project where you complete a minimum of three adviser approved courses in another discipline and finish the project during your senior year. The project encourages multifaceted learning, fosters creativity, broadens employment potential, and contributes to a total educational experience. The curriculum also enables you to pursue a minor or a second major.

In addition, the dance program encourages general students to enroll in dance courses to experience the joy of dancing and appreciate the value of dance as an art form. The UW-Stevens Point dance option of the theatre arts major is accredited by the National Association of Schools of Dance.

Admission/retention requirements

You are admitted into the program as a major or minor by completing an application form and successfully passing a performance. Applications and schedules are available from the Theatre and Dance Department upon request. Continuation in the major and minor is determined by satisfactory completion of performance juries each semester.

Performance and choreography

The dance program encourages dance students to continue their training throughout their undergraduate studies. After completing the core requirements, you will have the option to take selected performance classes for either 2 or 3 credits. You will have a variety of opportunities to perform and/or choreograph in the mainstage and studio dance concerts, musical productions, and composition class showings. Additional performance and choreographic opportunities are available on and off campus.

Portfolio review

You must maintain a portfolio of work that includes evaluations of performance juries and choreographic work, writing samples from theory and history courses, and documentation of your interdisciplinary project.

Professional opportunities in dance and a related academic field

The faculty invites you to be innovative in researching the many opportunities available to graduates who combine skills in dance with another discipline. This preparation allows the graduate to step into an existing career path in dance or create a new one.

Courses for nonmajors/nonminors

Dance 103, 105, 112, 114, and 115 are introductory level dance classes and are open to all university students. All other technique and performance courses are open to those who meet the prerequisites or test-out criteria. You may apply one credit of each course toward the general degree requirement of wellness/aerobic activity.

Dance Option of Theatre Arts Major (B.A./B.S.)

Consists of 48 credits.

1. **Core, 18 credits:**
 - a. Dance 104, 106.
 - b. Three credits from Dance 205, 206, 305, 306 (placement exam required for entrance)
 - c. Six credits of Dance 214 and 314.
 - d. Three credits of Dance 215.

NOTE: The dance faculty recommends that students interested in continuing their dance studies take two core classes per semester and participate in summer dance workshops to expand their network of professional performance contacts.
2. **Theoretical studies, 11 credits:** Theatre 100, Dance 220, 328, 352, 420.
3. **Performance and choreography, 13 credits:** Theatre 242; Dance 201, 212, 301, 302.
4. **Senior seminar and interdisciplinary project:** Dance 496 and 497. Before taking the senior seminar, you must complete a minimum of 9 credits outside of dance in consultation with your adviser. After the first 6 credits, you must meet with your adviser to discuss project possibilities.
5. **Required production activity:** See description above.

Dance Minor in Theatre Arts

Consists of 27 credits.

1. **Theoretical studies:** Theatre 100, Dance 220, 352.
2. **Performance and choreography:** Dance 104, 106, 201, and 301.
3. **Electives:** 9 credits from Dance 205, 206, 212, 214, 215, 314, or 420.
4. **Required production activity:** See description above.

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DRAMA

Arthur Hopper, Coordinator
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Phone: 715-346-4429
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Drama Option of Theatre Arts Major (B.A./B.S.)

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.

Curricular Requirements

Consists of 43 credits.

1. Theatre 100, 146, 162, 160 or 170, 351, 352, 451, 452; Dance 112 or 212.
2. Nine credits from: Theatre 149, 241, 242, 243, 244, 346, 375.
3. Electives: 10 credits approved by adviser. Up to 3 elective credits may be from Theatre 126-426.
4. **Production activity:** See description above.

Drama Option of Theatre Arts Major (B.F.A.)

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.

Admission audition required

Admission to the BFA acting specialization and the BFA design and technology specialization is by audition and interview. You enter the program usually in your sophomore year, but talented high school seniors may audition prior to their freshman year. Contact the theatre and dance office for more information.

Portfolio and performance reviews

In the BFA acting and design/technology program you undergo an annual review by means of performance juries or portfolios to determine your progress. If you do not demonstrate satisfactory work, you may be placed on probation or dropped from the major.

Required auditions

BFA acting majors must audition for all departmental mainstage and studio drama productions.

Curricular Requirements

Consists of 78 credits.

1. Theatre 100, 146, 162, 160 or 170, 351, 352, 375, 451, 452.
2. Complete ONE area of specialization.
 - a. **Acting.** Theatre 129-429 (4 cr.), 172, 232, 233, 244, 281, 282, 332, 333, 380, 381, 382, 384, 481, 482; Dance 112 or 212, and 8 elective credits approved by your adviser. Up to 3 elective credits may be from Theatre 126-426.
 - b. **Design and technology.** Theatre 149, 241, 242, 243, 244, 341, 342, 343, 345, 347, 348, and 17 elective credits approved by your adviser. Up to 3 elective credits may be from Theatre 126-426.
3. **Production activity:** See description above.

Drama Minor in Theatre Arts

Consists of 24 credits:

1. Theatre 100, 146, 162, 170; 6 credits from 351, 352, 451, 452; 8 credits of department electives. Up to 2 elective credits may be from Theatre 126-426.
2. **Production activity:** See description above.

Musical Theatre Option of Theatre Arts Major (B.F.A.)

Choose this option if you are a multi-talented 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

High school students interested in this program are strongly encouraged to audition in their senior year. Since a limited number of students are accepted each year, the earlier the audition, the better chance you have for acceptance. Transfer students should also audition for acceptance into the program before transferring to UWSP. Contact the theatre office for more information about auditions.

Retention in the program

Your progress in the musical theatre program is assessed annually. You must perform each semester in either a mainstage production or a performance forum. You are juried at the end of each semester through your junior year. If at any time you are not making satisfactory progress in the program or not adhering to the retention standards established by the department, you may be placed on probation or dropped from the program.

Required auditions

Musical theatre majors must audition for all departmental mainstage and studio theatre productions.

Curricular Requirements

Consists of 78 credits.

1. **General courses,** 13 credits: Theatre 100, 146, 162, 451, 452.
2. **Acting,** 18 credits: Theatre 170, 172, 281, 282, 380, 480.
3. **Dance,** 10 credits: Dance 105, 112, 114, 115, 212.
4. **Voice,** 14 credits: Theatre 131, 231, 232, 233, 331, 333, 431.
5. **Piano,** 4 credits: Music 158.
6. **Musical Theatre,** 16 credits: Theatre 110, 111, 129-429 (4 cr.), 361, 362.
7. **Electives:** 3 credits approved by your adviser.
8. **Production activity:** 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 INCLUDING 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. Introduction to advanced 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. Introduction to advanced fundamentals of ballet concepts and techniques. 4 hrs per wk. May repeat once with cons instr for 6 cr max. Prereq: 105 or test out. GDR:WL/AA

DNCE 112. Theatre Dance and Tap I. (formerly 211) 2 cr. Theatre dance forms, with beginning period styles of jazz and tap. 3 hrs per wk. GDR:WL/AA

DNCE 114. Jazz I. 2 cr. Introduction to beginning level jazz technique and performance skills. 3 hrs per wk. GDR:WL/AA

DNCE 115. Tap I. 2 cr. Introduction to beginning level tap technique and performance skills. 3 hrs per wk. GDR:WL/AA

DNCE 126. Theatre Practicum for Dancers. 1 cr. Practical work in theatre production for the dancer by special arrangement with the instructor.

DNCE 201. Composition I. 2 cr. Exploration of basic elements and styles of movement and text through improvisation. 3 hrs per wk.

DNCE 203. Modern IIA. 2-3 cr. Mastery of 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 completing 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. Mastery of 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 completing 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. Mastery of 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 completing 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. Mastery of 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 completing core. May repeat for 6 cr max. Prereq: 106 and placement exam, or test out. GDR:WL/AA

DNCE 212. Theatre Dance and Tap 2 cr. Theatre dance forms with beginning period styles of jazz and tap. Continuation of 112. 3 hrs per wk. Prereq: 112 or test out. GDR:WL/AA

DNCE 214. Jazz II. 2-3 cr. Mastery of 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 completing core. May repeat for 6 cr max. Prereq: 106, 114 or test out. GDR:WL/AA

DNCE 215. Tap II. 2-3 cr. Mastery of 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 completing core. May repeat for a 6 cr max. Prereq: 104, 112 or test out. GDR:WL/AA

DNCE 220. Movement Analysis and Theory I. 3 cr. Experiential, observational and analytical study of the language of movement through body, effort, space and shape with application to performance. Introduction to motif writing and skeletal and muscular systems.

DNCE 221. Movement Analysis and Theory II. 3 cr. Continuation of 220 with emphasis on more complex movement theory and application through performance. Prereq: 220.

DNCE 226. Theatre Practicum for Dancers. 1 cr. Practical work in theatre production for the dancer by special arrangement with the instructor. Prereq: So st or cons instr.

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. GDR:WL/AA

DNCE 301. Composition II. 3 cr. Exploration of small group forms through studies in time, space, dynamics, and musical forms. 4 hrs per wk. Prereq: 201 or cons instr.

DNCE 302. Composition III. 3 cr. Emphasis on solo forms and exploration of multimedia technology in dance composition. Prereq: 201 and 301.

DNCE 303. Modern IIIA. 2-3 cr. Mastery of 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 completing 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. Mastery of 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 completing 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. Mastery of 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. Mastery of 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 completing 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. Mastery of 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 completing core. May repeat for 6 cr max. Prereq: 106 and 214 or test out. GDR:WL/AA

DNCE 315. Tap III. 2-3 cr. Mastery of advanced level tap technique and performance skills. 4 hrs per wk. Enroll for 3 cr as part of core. May enroll for 2 cr after completing core. May repeat for 6 cr max. Prereq: 104 and 212 or 215 or test out. GDR:WL/AA

DNCE 326. Theatre Practicum for Dancers. 1 cr. Practical work in theatre production for the dancer by special arrangement with the instructor. Prereq: Jr st or cons instr.

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. GDR:WL/AA

DNCE 328. Career Seminar. 1 cr. Survey of career options in dance.

DNCE 351. Dance History I. 3 cr. Development of dance in a cultural, philosophical, and political context from prehistory through the 1920s. GDR:HU1

DNCE 352. Dance History II. 3 cr. Development of dance in a cultural, philosophical and political context from 1930 to the present including culturally diverse American dance forms. GDR:HU1

DNCE 399. Special Work. 1-6 cr. Students may arrange for independent study on individual or group projects with cons instr and chair. Credit based on scope of the project. Subtitle will designate area.

DNCE 409. Dance Midwest. 2 cr. Performance experience in a touring dance company. 4 hrs per wk. May repeat 4 times for 8 cr max. Prereq: Audition.

DNCE 420. Teaching Theories and Practices. 3 cr. Introduction to the theories and practices of teaching dance. Observe, demonstrate, and practice teach for beginning level classes. Con reg in 103, 105, 112, 114, or 115 required. Prereq: 220, jr st or cons instr.

DNCE 426. Theatre Practicum for Dancers. 1 cr. Practical work in theatre production for the dancer by special arrangement with the instructor. Prereq: Sr st or cons instr.

DNCE 428. Dance Internship. 1-6 cr. Supervised field experience with a cooperating agency in fields related to dance. Prereq: Cons dance coordinator.

DNCE 496. Senior Seminar. 3 cr. Preparation for developing interdisciplinary project required for graduation. Prereq: Jr or sr status, 201, 301, 302, and 9 cr from another discipline.

DNCE 497. Senior Interdisciplinary Project. 3 cr. Prepare and present a project combining dance and another discipline. Project must be approved by department and supervised by interdisciplinary project committee. Prereq: 201, 301, 302, 496, and 9 cr from another discipline approved by adviser.

Courses in Theatre

THEA 100. New Major/Minor Seminar. 1 cr. Orientation to department policies, practices, and procedures. Prereq: Required for all new department majors/minors in first fall semester of enrollment.

THEA 105. Theatre Appreciation. 3 cr. Introductory study of the theatre; what it is and has been. Study plays, playwrights, and various theatre crafts. GDR:HU1

THEA 110. Music Theory for Musical Theatre Performers I. 3 cr. Music theory fundamentals: pitch recognition and notation, scales, triads, intervals, rhythm, vocabulary; introduction to harmonic and structural analysis and four-part writing. Lab section includes applied musicianship skills: sight singing, group singing, and basic keyboard skills using material from Broadway musicals.

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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 126. Theatre Practicum. 1 cr. Assigned participation in theatre productions.

THEA 129-429. Performance Laboratory. 1-6 cr. Intensive laboratory experience in performance techniques. Subtitle will designate area. May repeat for credit with different subtitles.

THEA 131. Vocal Training I. 1 cr. Private voice lessons for musical theatre performer. Prereq: Cons instr and dept chair. May repeat once for credit.

THEA 146. Introduction to Theatre Technology. 3 cr. Study and application of materials and techniques for costume construction and stagecraft. Costume: introduction to basic process, skills and equipment required and used in construction of theatrical costumes. Stagecraft: stage equipment, rigging, woodworking tools, scale drawings, scenic and lighting design presentations, lighting systems, properties, and production organization. 6 hrs lec and/or lab per wk.

THEA 149. Introduction to Theatrical Design. 3 cr. Beginning design techniques: drafting, sketching, and rendering. 3 hrs lec and/or lab per wk.

THEA 160. Introduction to Acting. 3 cr. Beginning acting course for nonacting majors designed to encourage imagination, self-expression, communication, and a fundamental understanding of the acting process.

THEA 162. Script Analysis. 3 cr. Fundamentals of analysis for the actor, designer, or director.

THEA 170. Fundamentals of Acting I. 3 cr. Beginning acting course for performance majors to explore fundamental process of character development through the playing of a dramatic action. Includes exercises to free body, voice, and emotions of inhibitions which restrict open communication within a dramatic situation. Prereq: Performance major or cons instr.

THEA 172. Fundamentals of Acting II. 3 cr. Continuation of 170 with emphasis on script and character analysis. Prereq: 170, or 160 and cons instr.

THEA 180. Audition Fundamentals. 1 cr. Introduction to fundamental techniques of a prepared theatrical audition. Emphasis on purpose, selection, preparation, and presentation.

THEA 226. Theatre Practicum. 1 cr. Assigned participation in theatre productions.

THEA 231. Vocal Training II. 1 cr. Private voice lessons for musical theatre performer. Prereq: Cons instr and chair. May repeat once for credit.

THEA 232. Voice and Articulation I. 2 cr. Identification and practice of diaphragmatic breathing; elements of articulation and vocalization; analysis and control of voice placement and projection. 4 hrs lec or lab per wk. Prereq: 170, or cons instr.

THEA 233. Voice and Articulation II. 2 cr. Development of actor's vocal instrument including articulation and elimination of regionalisms. 4 hrs lec or lab per wk. Prereq: 170, 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. Make-up Design. 3 cr. Fundamentals of 2- and 3-dimensional stage make-up through character analysis, design, and application. Extensive practical experience through laboratory and crew work on departmental productions. 4 hrs lec and/or lab per wk plus class assignments on departmental productions.

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. Exploration of basic acting fundamentals through the analysis and performance of scenes from contemporary realistic plays. Prereq: 172 or cons instr.

THEA 326. Theatre Practicum. 1 cr. Assigned participation in theatre productions.

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. Team taught. Popular theatre from the viewpoint of the audience, the 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. Also offered as part of UW-Stevens Point 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 chair. 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 333. Voice and Articulation III. 2 cr. Advanced voice and speech laboratory to analyze demands placed on actor's voice by various acting styles. 4 hrs lec or lab per wk. Prereq: 170, 232; 233 and con reg in 481, or cons instr.

THEA 341. Scene Design II. 3 cr. Study and skills of scene design with multi-set productions, and advanced work on rendering techniques, model making, and computer-aided design (CAD). Introduction to resume and portfolio preparation. 3 hrs lec and/or lab per wk. Prereq: 241, or cons instr.

THEA 342. Lighting Design II. 3 cr. Study and skills of lighting design including design for a variety of the 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; script analysis, character analysis, historical period and the relationship 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 work in rendering techniques for scenic, costume and lighting design. 4 hrs studio per wk.

THEA 346. Stage Management. 3 cr. Role of stage manager as assistant to the director during rehearsal and in the management of 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. Computer-aided design techniques emphasizing both two-dimensional drafting and three-dimensional modeling. Exploring the computer as a tool for graphic imaging and applications for theatrical production. 4 hrs lec and/or lab per wk.

THEA 348. Pattern Drafting. 3 cr. Work in costume interpretation and pattern drafting of period garments. 4 hrs lec and/or lab per wk. Prereq: Jr st, 146, or cons instr.

THEA 351. Survey of Theatre History I. 3 cr. Significant aspects in the development of Western theatre from Greek origins to the late 19th century. Prereq: So st. GDR:HU1

THEA 352. Survey of Dramatic Literature I. 3 cr. Representative plays in the development of Western drama from the Greek origins through the mid-19th century. Prereq: So st. GDR:HU2

THEA 361. Survey of Musical Theatre I. 3 cr. Participatory investigation of forms and ideas which 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. Participatory exploration of 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 375/575. Directing I. 3 cr. Theory of directing; exercises in blocking and performing scenes. 4 hrs per wk. Prereq: 160 or 170, 162, and jr st.

THEA 376/576. Directing II. 3 cr. Practice in directing scenes and one act plays; develop directing skills. 4 hrs per wk. Prereq: 375 or cons instr.

THEA 380. Audition Techniques. 3 cr. Participate in developing audition skills, monologues, and cold readings. Prereq: 282 or cons instr. For BFA acting and musical theatre majors; open by audition to others who meet prerequisites.

THEA 381. Acting for the Camera I. 3 cr. Practical experience in video and film acting. 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 a variety of styles. Prereq: 282 or cons instr. For BFA acting and musical theatre majors; open by audition to others who meet prerequisites.

THEA 386. Acting for the Camera II. 3 cr. Continuation of 381. Prereq: 170, 282, 381, 384; or cons instr. For BFA acting and musical theatre majors; open by audition to others who meet prerequisites.

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. 1 cr. Assigned participation in theatre productions.

THEA 429. Drama Workshop. 1-6 cr. Intensive laboratory experience. Subtitle will designate area of concentration. Prereq: Sr st, or jr st and cons instr.

THEA 431. Voice Training IV. 1 cr. Private voice lessons for musical theatre performer. Prereq: cons instr and dept chair. May repeat once for credit.

THEA 445. Scene Painting. 3 cr. Introduction to scene painting and its application to the scenic design process; basic painting techniques; types of paint and materials. 4 hrs lec/lab per wk.

THEA 446. Technical Production. 3 cr. Advanced work in technical production including facilities management, budgeting, purchasing, scheduling, safety, and construction techniques. 3 hrs lec and/or lab per wk. Prereq: 241 and 242 or cons instr.

THEA 448. Costume Crafts. 3 cr. Advanced work in various craft areas: millinery, shoes, accessories, wigs, mold-making, dyeing, painting, and fabric manipulation. 4 hrs lec and/or lab per wk. Prereq: 243 or cons instr.

THEA 449. Seminar in Technical Theatre. 3 cr. Special projects and techniques of handling advanced technical theatre problems. Subtitle with designate area. May repeat once for credit under each subtitle. Arranged. Prereq: 241 or 242 or cons instr.

THEA 451. Survey of Theatre History II. 3 cr. Significant aspects in the development of Western theatre from the late 19th century to the present. Prereq: 351 or cons instr. GDR:HU1

THEA 452. Survey of Dramatic Literature II. 3 cr. Representative plays in the development of Western drama from the mid-19th century to the present. Prereq: 352 or cons instr. GDR:HU2

THEA 461(NW). 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. GDR:HU1

THEA 480. Musical Theatre Performance. 3 cr. Integrate acting, singing, and movement into effective musical theatre auditions and performances. May repeat for 6 cr max. Prereq: 282, 380, jr st. For BFA acting and musical theatre majors; open by audition to others who meet prerequisites.

THEA 481. Period Acting I. 3 cr. Theory and practice of acting verse and other drama written before the 18th century. Emphasis on Shakespearean plays. Prereq: 170, 282, 384, or cons instr. For BFA

acting and musical theatre majors; open by audition to others who meet prerequisites.

THEA 482. Period Acting II. 3 cr. Advanced study and practice performing plays written prior to the 20th century. Emphasis on comedy of manners. Prereq: 170, 282, 384, or cons instr. For BFA acting and musical theatre majors; open by audition to others who meet prerequisites.

THEA 490/690. Seminar in Theatre. 3 cr. Research and discussion of 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 497. Senior Project. 1-3 cr. Exhibit talents by developing special project in dance, drama, or musical theatre. Project must be approved by department and supervised by department project committee.

THEA 796. Independent Study. 1-3 cr. Designed to supplement preparation in area of specialization; regular conferences with a staff supervisor.

THEA 799. Thesis. 2-6 cr.

For more courses in theatre (drama) see the *Latent Course List* at the end of this section.

Tribal Sovereignty (College of Letters and Science)

History Department, Coordinator
Room 422/424 College of Professional Studies Building
Phone: 715-346-2334
E-mail: nlewis@uwsp.edu

Tribal Sovereignty Minor

Consists of a minimum of 21 credits as follows:

1. Required, 11-12 credits: History 288 (Treaties); Water 350 (Chippewa Fishing Rights), Geography 303, 388.
2. Electives: 10 or more credits from: History 382, English 280, Philosophy 381, Religious Studies 316, Anthropology 339, Sociology 395 (Tribal Social Welfare and Institutions).

UNDECIDED/UNDECLARED

Contact the *Student Academic Advising Center* in the Student Services Center.

WASTE MANAGEMENT/ RESOURCES

See *Natural Resources-Soil and Waste Resources*.

WATER RESOURCES

See *Natural Resources*.

WELLNESS

For the health promotion major, see *Health Promotion and Human Development*. For the list of courses that meet the wellness general degree requirement see *Health, Exercise Science, and Athletics*. Also see *General Degree Requirements*.

WILDLIFE

See *Natural Resources*.

Women's Studies (College of Letters and Science)

Nancy Bayne, Interim Coordinator
Room D241, Science Building
Phone: 715-346-2304
E-mail: nbayne@uwsp.edu

Women's Studies Minor

Consists of 22 credits:

1. Core, 9 credits: Women's Studies 105; one of 300, 320, 350; and 490 or 3 credits of 499.
2. Selections from Communication 370; English 102 with approp subtitle, 285, 365; History 313, 321 (Witchcraft, Prostitution, and Rape), 384, 385, 386, 391 (Women and War); Music 301; Philosophy 350; Political Science 414; Psychology 240; Religious Studies 105, 330, 331; Sociology 240, 295 (Sex Roles: Cross-Cultural Perspectives, or Sociology of Women), 316, 468; Women's Studies 200, 396 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 will be 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; examination of historical and cross-cultural materials. GDR:SS2

WOMN 200. Topics in Women's Studies. 1-3 cr. Interdisciplinary examination of one of the major topics in women's studies. Subtitle will designate topic. May take for credit twice with different subtitles.

WOMN 300/500. Topics in Women's Studies (Humanities Emphasis). 3 cr. Interdisciplinary examination of one of the major topics in women's studies. May take for credit twice under different subtitles. Prereq: 105 or cons instr. GDR:HU4

WOMN 320/520(MNS). Literary Perspectives on Race and Gender. 3 cr. How U.S. ethnic minority women writers treat the subjects of race, ethnicity, and gender; social and historical contexts of their literature. GDR:HU4

WOMN 350/550. Women and Science. 3 cr. Explores the interaction of women and science including survey of women's contributions to science, impact of science on women, feminist critiques of science, and feminist standpoints on the future of science. Prereq: Jr st or cons instr.

WOMN 396. Practicum. 1-3 cr. Students may arrange through the women's studies coordinator to work with a community organization or agency directly involved in aiding women.

WOMN 490. Seminar. 3 cr. The changing status of women in contemporary society; investigation of selected aspects of woman's role, e.g., in government, education, law, the family, the community; research involving reading and direct research projects, producing significant data or a seminar paper.

WOMN 499. Special Work. 1-3 cr. Students minoring in women's studies may arrange for special work with cons women's studies coordinator. Research will involve reading and a direct research project, producing significant data or a seminar paper.

WRITING

See *English* and *Scientific and Technical Writing*.

WRITING EMPHASIS (WE)

See *General Degree Requirements*. The timetable lists writing emphasis course offerings for each semester.

YOUTH PROGRAMMING AND CAMP MANAGEMENT

See *Natural Resources* for the minor called camp and youth agency administration and programming and other environmental education topics.

ZOOLOGY

See *Biology*.



Latent Course List

The following courses have been placed in the latent course file. They have not been deleted from the curriculum, but classes on these topics have not been offered in recent years. The dates in parentheses following the course titles indicate the last catalog where the full course description appeared. If there is enough student interest, any of these courses can be offered again. Contact the various departments for more information.

Accounting:

340 Fund Accounting, 3 cr, (89-91)

Anthropology:

111 Human Evolution, 3 cr, (95-97)
 120 Introduction to Native American Cultures, 3 cr, (95-97)
 322 Culture and Personality, 3 cr, (95-97)
 330 Anthropology of Politics, 3 cr, (91-93)
 334 Peoples of Europe, 3 cr, (95-97)
 336 Peoples of Africa, 2-3 cr, (83-85)
 337 Peoples of Asia, 2-3 cr, (83-85)
 338 Peoples of the Pacific, 2-3 cr, (83-85)
 342 Environmental Archeology, 3 cr, (95-97)
 350 Cultural Ecology, 3 cr, (95-97)
 360 Economic Anthropology, 3 cr, (91-93)
 370 Processes of Sociocultural Change, 3 cr, (95-97)
 373 Technology and Contemporary Social Probs, 3 cr, (95-97)
 450 Anthropological Theory, 3 cr, (95-97)

Art:

106 Layout and Lettering, 3 cr, (87-89)
 200 Introduction to Computers in Art, 3 cr, (97-99)
 206 Layout and Lettering, 3 cr, (83-85)
 284 Survey of Arts of Africa, Oceania, & Americas, 3 cr, (89-91)
 323 Papermaking, 3 cr, (89-91)
 347 American Indian Crafts, 2 or 3 cr, (89-91)
 348 American Indian Crafts, 2 or 3 cr, (89-91)
 350 Computer Graphics II, 3 cr, (95-97)
 400 Computer-Aided Design I, 3 cr, (95-97)
 441 Crafts, 3 cr, (89-91)
 442 Crafts, 3 cr, (89-91)
 450 Computer-Aided Design II, 3 cr, (95-97)
 490 Seminar, 2 cr, (89-91)
 701 Historical/Philosophical Concepts of Art, 3 cr, (89-91)
 703 Drawing, 3 cr, (89-91)
 721 Printmaking, 3 cr, (89-91)
 731 Watercolor Painting, 3 cr, (89-91)
 734 Painting, 3 cr, (89-91)
 736 Life Drawing, 3 cr, (89-91)
 743 Fiber Arts, 3 cr, (89-91)
 751 Sculpture, 3 cr, (91-93)
 761 Ceramics, 3 cr, (91-93)
 771 Art Metal, 3 cr, (91-93)

Art Education:

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

Astronomy:

570 Astronomy for Teachers, 4 cr, (91-93)
 571 Laboratory in Planetarium Studies, 2 cr, (91-93)

Biology:

050 Science Skills, 2 cr, (89-91)
 221 Career Development in Biological Sciences, 1 cr, (97-99)
 275 Introductory Bird Study, 2 cr, (95-97)
 303/503 Introduction to Marine Biology, 4 cr, (93-95)
 304 Ecological Perspectives, 3 cr, (97-99)
 318 Human Genetics and Eugenics, 3 cr, (89-91)
 319 Aging, 2-3 cr, (93-95)
 327 Genetic Engineering, 3 cr, (93-95)
 339/539 Bryology and Lichenology, 2 cr, (95-97)
 364/564 Protozoology, 4 cr, (85-87)
 367/567 General Entomology, 3 cr, (93-95)
 373/573 Histology, 4 cr, (95-97)
 376/576 Herpetology, 3 cr, (95-97)

381/581 Comparative Animal Physiology, 4 cr, (85-87)
 383/583 Human Reproduction, 3 cr, (85-87)
 384/584 Animals and Environment, 1 cr, (95-97)
 385/585 Animal Feeding Ecology, 1 cr, (97-99)
 386/586 Ecology of Reproduction in Vertebrates, 1 cr, (97-99)
 387/587 Field and Lab Studies in Animal Ecology, 1 cr, (85-87)
 425 Problems in Quantitative Biology, 2 cr, (97-99)
 520 Biological Techniques, 4 cr, (91-93)
 557 Principles of Plant Community Distribution, 1 cr, (91-93)
 560 Invertebrate Zoology, 4 cr, (91-93)
 625 Problems in Quantitative Biology, 2 cr, (91-93)
 705 Advanced Ecology, 3 cr, (87-89)
 710 Advanced Genetics, 4 cr, (87-89)
 711 Physiological Mechanisms, 4 cr, (87-89)
 726 Problem Analysis, 2 cr, (87-89)
 728 Integrated Biological Concepts, 3 cr, (87-89)
 790 Graduate Seminar, 1 cr, (87-89)

Chemistry:

104 Essentials of Chemistry, 2 cr, (95-97)
 369 Topics in Physiological Chemistry, 2 cr, (95-97)
 380 Industrial Hygiene Chemistry, 1 cr, (95-97)
 391 Seminar for Chem Majors in Teacher Ed, 1 cr, (83-85)
 468/668 Experimental Biochemistry, 1-2 cr, (95-97)
 492 Seminar for Chem Majors in Teacher Educ, 1 cr, (83-85)
 790 Chemistry Education Workshop, 1-4 cr, (93-95)

Chinese

101 First Year Chinese, 4 cr, (95-97)
 102 First Year Chinese, 4 cr, (95-97)
 200-301 Continuing Chinese, 4 cr, (95-97)

Colloquium

301-304 Colloquium on Important Books, 2-3 cr, (95-97)

Communication:

500 Introduction to Communication Research, 3 cr, (91-93)
 521 Advanced Journalism, 3 cr, (91-93)
 522 Communication Graphics Laboratory, 3 cr, (91-93)
 523 Journalism Writing Laboratory, 3 cr, (91-93)
 529 Topics in Journalism, 3 cr, (91-93)
 554 Broadcast News Laboratory, 3 cr, (91-93)
 591 Computer Communication Laboratory, 3 cr, (91-93)
 760 Perspectives in Communication Education, 3 cr, (87-89)
 785 Administrative Communication: Educ Systems, 3 cr, (87-89)
 xxx Diversity Comm Option (approved Faculty Senate 5-2-90)

Communicative Disorders:

353/553 Conversational Sign Language, 2 cr, (97-99)
 749 Total Communication, 3 cr, (87-89)
 766 Problems of the Deaf and Hearing Impaired, 2 cr, (87-89)
 768 Counseling in Communicative Disorders, 3 cr, (89-91)
 771 Speech Pathology Serv in Noneduc Settings, 3 cr, (87-89)
 780 Communicative Disorders in Children, 3 cr, (89-91)
 782 Administrative Aspects of Com Disorders, 3 cr, (87-89)
 790 Externship, 6 cr, (87-89)

Comparative Literature:

231 Survey of Dramatic Literature: Tragedy, 3 cr, (83-85)
 232 Survey of Dramatic Literature: Comedy, 3 cr, (83-85)
 240 Literature of the Bible, 3 cr, (83-85)
 250 Asian Literature, 3 cr, (83-85)
 251 The Fiction of Asia, 3 cr, (83-85)
 252 The Drama of Asia, 3 cr, (83-85)
 253 The Poetry of Asia, 3 cr, (83-85)
 300 Classical Poetry, 3 cr, (83-85)
 301 Classical Prose, 3 cr, (83-85)
 302 Medieval Literature in Translation, 3 cr, (83-85)
 303 Literature of the Renaissance, 3 cr, (83-85)
 350/550 Special Problems, 2-3 cr, (87-89)

Computer Information Systems

105 Intro to Campus Computing Facilities, 1 cr, (95-97)
 112 Introduction to FORTRAN Programming, 3 cr, (95-97)
 113 Introduction to COBOL Programming, 3 cr, (95-97)
 230 Computer Organiz and Assembly Language, 3 cr, (95-97)
 305 Operating Systems, 3 cr, (97-99)
 312 Advanced Programming: FORTRAN, 4 cr, (95-97)
 314 C Programming Language, 4 cr, (95-97)
 335 Computers, Data Processing, and the Law, 3 cr, (95-97)
 340 Artificial Intelligence, 3 cr, (97-99)
 351 Modeling and Simulation, 3 cr, (97-99)
 352 Decision Support Systems, 3 cr, (95-97)
 365 Computer Graphics, 3 cr, (95-97)

Convocation

100/300 Convocation, 1 cr, (95-97)

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Economics:

- 315 Business and Government, 3 cr, (95-97)
- 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)
- 756 Current Economic Problems, 3 cr, (91-93)

Early Childhood Education:

- 160 Special Topics in Child Development Associate Competencies, 1 cr, (97-99)

Education:

- 241 Creative Activities for Young Children, 3 cr, (87-89)
- 388/588 Interpersonal Relations, 3 cr, (93-95)
- 527 Teach Reading to Gifted/Talented Students, 3 cr, (91-93)
- 550 Organization and Admin of Outdoor Educ, 3 cr, (91-93)
- 552 Workshop in Mental Health, 4 cr, (91-93)
- 561 Identif and Use of Community Resources, 2-3 cr, (91-93)
- 571 Workshop in Education, Aerospace, 1-3 cr, (91-93)
- 572 Wkshp in Educ, Techniq of Outdoor Educ, 1-3 cr, (91-93)
- 574 Wkshp in Ed: Group Dynamics in Sec Sch, 2-3 cr, (91-93)
- 587 Corrective Reading in Secondary School, 3 cr, (91-93)
- 589 Issues in Vocational/Technical Ed, 2-3 cr, (91-93)
- 594 Alternative Education, 1-2 cr, (91-93)
- 706 Experimental/Statistical Methods in Ed Rsrch, 3 cr, (91-93)
- 711 Seminar: Problems in Elementary Teaching, 3 cr, (91-93)
- 712 Seminar: Problems in Secondary Teaching, 3 cr, (91-93)
- 720 Research Studies in Elementary Education, 3 cr, (87-89)
- 727 Mastery Teaching, 2-3 cr, (91-93)
- 728 Clinical Supervision of Instruction, 2-3 cr, (91-93)
- 731 Mathematics in the Elementary School, 2-3 cr, (87-89)
- 732 Elementary School Language Arts, 3 cr, (91-93)
- 734 Elementary School Social Studies, 3 cr, (91-93)
- 736 Individually Guided Motivation, 2-3 cr, (85-87)
- 755 Values and Clarification, 3 cr, (91-93)
- 758 Education for Cooperating Teachers, 3 cr, (93-95)
- 765 Professional Experience: Secondary, 8 cr, (91-93)
- 770 Adviser's Function: Student Activities Program, 1 cr, (87-89)
- 774 Disturbed, Retarded, Learning Disabled Stu, 1-5 cr, (97-99)

English:

- 050 Developmental English, 3 cr, (97-99)
- 057 Independent Writing, 1 cr, (89-91)
- 170 Folklore, 1-3 cr, (97-99)
- 195 Freshman Seminar, 1 cr, (97-99)
- 519 The Novel Since 1850, 3 cr, (91-93)
- 551 Advanced Business Writing, 3 cr, (91-93)
- 574 Oral Foundations of Written Composition in Early Childhood, 1-3 cr, (91-93)

Fashion and Interior Design:

- 317 Structural Decorative Textiles, 3 cr, (93-95)
- 417 Applied Textile Design, 3 cr, (93-95)
- 529 History of Costume, 3 cr, (91-93)

Food and Nutrition:

- 591 Study Tour, 1-6 cr, (91-93)
- 644 Principles of Microwave Cookery, 1 cr, (91-93)
- 645 Food Preservation, 1 cr, (91-93)
- 646 Experimental Foods, 3 cr, (91-93)
- 650 Social and Cultural Aspects of Food, 3 cr, (91-93)
- 798 Research, 3 cr, (91-93)

Food Systems Management:

- 591 Study Tour, 1-6 cr, (91-93)

Foreign Language:

- 301 Contrastive Linguistics, 3 cr, (83-85)

Forestry

- 524 Forest Protection I: Abiotic Agents, 3 cr, (93-95)
- 624 Forest Protection II: Pathology, 3 cr, (93-95)
- 626 Forest Protection III: Entomology, 3 cr, (93-95)

French

- 542 Survey of French Literature, 3 cr, (91-93)

Geography:

- 108/308 Environmental Issues through Films, 2 cr, (93-95)
- 303/503 Geography of Indian Lands, 3 cr, (97-99)
- 368/568 World Populations and Resources, 3 cr, (91-93)
- 374/574 Geography of Agriculture, 3 cr, (91-93)
- 375 Mineral Resources, 3 cr, (93-95)
- 501 Middle America, 3 cr, (91-93)

Geology:

- 101 Principles of Geology, 5 cr, (89-91)
- 105 Historical Geology, 4 cr, (97-99)
- 591 Special Topics, 1-3 cr, (91-93)

German:

- 243 German Literature in Translation, 3 cr, (83-85)
- 441 Survey of German Literature, 3 cr, (83-85)
- 442 Survey of German Literature, 3 cr, (83-85)

Greek:

- 105 New Testament Greek, 4 cr, (85-87)
- 106 New Testament Greek, 4 cr, (85-87)

Health Education:

- 145 Introduction to Health Education/Promotion, 3 cr, (93-95)
- 790 Seminar in Current Issues, 1-3 cr, (91-93)

History:

- 228/328 Resource Development-Policy in Europe, 2-3 cr, (85-87)
- 300 Selected Historical Probs, Analysis/ Writing, 3 cr, (85-87)
- 301/501 Western Culture, 3 cr, (85-87)
- 310/510 Medieval Thought and Letters, 3 cr, (91-93)
- 311/511 Age of the Crusades, 2-3 cr, (91-93)
- 320/520 European Economic History, 3 cr, (85-87)
- 327/527 Recent World Politics, 3 cr, (95-97)
- 333/533 France: Enlighten, Revolution; Napoleon, 3 cr, (95-97)
- 334/534 Modern France, 3 cr, (95-97)
- 342 Polish Immigration to the United States, 3 cr, (85-87)
- 343/543 Africa South of the Sahara, 3 cr, (91-93)
- 367/567 The American Frontier, 3 cr, (85-87)
- 386/586 Probs in Immigration, Ethnic, Family History, 2-3 cr, (85-87)
- 387/587 American Reform Movements, 2-3 cr, (91-93)
- 764 Readings and Probs in European History, 3 cr, (83-85)
- 765 Readings and Problems in Russian History, 3 cr, (83-85)
- 766 Readings and Problems in Asian History, 3 cr, (83-85)
- 767 Readings and Probs in Latin American History, 3 cr, (83-85)
- 768 Readings and Problems in African History, 3 cr, (83-85)
- 775 Theories of History, 3 cr, (83-85)

Honors Program (95-97)

Human Development

- 391/591 Study Tour, 1-6-cr, (91-93)

Instructional Resources:

- 211 Learning Resources Approach to Educ, 1 cr, (89-91)
- 222 Introduction to Reference, 2-3 cr, (97-99)
- 223 Building Learning Resources Collections, 2-3 cr, (97-99)
- 361 Advanced Photography: Scientific, 3 cr, (89-91)
- 362 Advanced Photography: Color, 3 cr, (89-91)
- 363 Advanced Photography: Black & White, 3 cr, (89-91)

Mathematics and Computing:

- 341/541 Modern Geometry, 3 cr, (91-93)
- 342/542 Projective Geometry, 3 cr, (91-93)
- 347/547 Geometry for Elem and Junior High Teachers, 3 cr, (91-93)
- 348/548 Measure/Computation for Elem Sch Teacher, 3 cr, (85-87)
- 368 Contemporary Math for Elementary Teachers, 3 cr, (89-91)
- 385/585 Historical Topics for the Elem School Teacher, 3 cr, (85-87)
- 522 Vector Analysis, 3 cr, (91-93)
- 572 Topology, 3 cr, (91-93)

Menominee:

- 101 Beginning Menominee Language, 4 cr, (93-95)
- 102 Beginning Menominee Language, 4 cr, (93-95)

Military Science:

- 103 Leadership Laboratory, 1 cr, (95-97)
- 104 Leadership Laboratory, 1 cr, (95-97)
- 215 Leadership Laboratory, 1 cr, (95-97)
- 216 Leadership Laboratory, 1 cr, (95-97)

Music:

- 140 Oratorio Chorus, 2 cr, (93-95)
- 143 Marching Band, 1 cr, (93-95)
- 151 Class Applied Music—Voice, 2 cr, (93-95)
- 161 Applied Music I—Organ, 2 cr, (93-95)
- 180 Applied Music I—Classical Guitar, 2 cr, (93-95)
- 324/524 Organ Literature I, 3 cr, (93-95)
- 325/525 Organ Literature II, 3 cr, (93-95)
- 344/544 Large Ensemble: Vocal Jazz, 2 cr, (95-97)
- 345/545 Large Ensemble: Instrumental Jazz, 2 cr, (95-97)
- 349 Service Playing Techniques, 2 cr, (93-95)
- 628 Music Cultures in Pacific: Near East and Asia, 3 cr, (89-91)
- 687 Theory and Practice of Piano Tuning/Repair, 2 cr, (89-91)
- 722 Mass, Motet, and Contata, 2 cr, (89-91)

Natural Resources:

- 375/575 Environmental Field Studies, 3 cr, (91-93)
- 493/693 Environmental Field Seminar, 1-2 cr, (91-93)

Paper Science:

- 311 Electrical Engineering Concepts, 1 cr, (97-99)
- 312 Principles of Corrosion, 2 cr, (97-99)
- 313 Mechanics of Deformable Media, 2 cr, (97-99)
- 400 Summer Internship, 3 cr, (97-99)

Philosophy:

- 200 Intellectual Revolutions of the Modern World: Marx, Darwin, Freud, 3 cr, (93-95)
- 207 Classical Christian Metaphysics, 3 cr, (83-85)
- 301 Philosophy in a Literary Mode, 3 cr, (95-97)
- 304 Business Ethics, 3 cr, (95-97)
- 330 Existential Philosophy, 3 cr, (95-97)
- 335 Basic Texts of Hinduism and Buddhism, 3 cr, (95-97)
- 338 Chinese Philosophy, 3 cr, (95-97)
- 340 American Philosophy, 3 cr, (95-97)

Physical Education

- 447 Emergency Water Safety/ Safety Instructor, 1 cr, (97-99)

Physics:

- 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)

Polish

- 101 First Year Polish, 4 cr, (97-99)
- 102 First Year Polish, 4 cr, (97-99)
- 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)

Political Science:

- 211 Practical Law, 3 cr, (87-89)
- 309 Tribal Government in the United States, 3 cr, (87-89)
- 312 Law and Native Americans, 3 cr, (87-89)
- 351/551 Organization Theory and Practice, 3 cr, (87-89)
- 372 African Politics, 3 cr, (93-95)
- 396 Radical and Utopian Politics, 3 cr, (93-95)
- 454 Problems of Local Govt Administration, 3 cr, (87-89)
- *** Political Science Honors Program (97-99)

Psychology:

- 100 Personal Effectiveness, Study Skills, and Adjustment to College, 3 cr, (91-93)
- 340 Comparative Psychology, 3 cr, (93-95)
- 361/561 Mental Retardation/Develop Disabilities, 3 cr, (93-95)
- 393 Genocide: Psycho-Historical Foundations, 3 cr, (91-93)
- 460/660 Developmental Psychology Seminar, 3 cr, (93-95)

Recreation:

- 241 Camp Leadership, 2 cr, (89-91)
- 397/597 Workshop in Recreation, variable cr, (89-91)
- 399 Special Work, (89-91)
- 790 Seminar in Current Issues, 1-3 cr, (89-91)
- 796 Independent Study, 1-3 cr, (89-91)
- 797 Workshop in Recreation, variable cr, (89-91)

Religious Studies:

- 300 The Development of Christian Thought, 3 cr, (83-85)
- 305 Prophets and Prophecy, 3 cr, (95-97)
- 315 Religion in Literature, 3 cr, (95-97)

Retail Studies

- 100 Orientation to the Profession, 1 cr, (97-99)
- 131 Retail Industry Overview, 3 cr, (97-99)
- 201 Visual Merchandising, 3 cr, (97-99)
- 202 Social Psychological Aspects of Clothing, 3 cr, (97-99)
- 325 Sewn Product Analysis, 3 cr, (97-99)
- 329/529 History of Trends in Apparel and Textiles, 3 cr, (97-99)
- 331 Retail Management Principles, 3 cr, (97-99)
- 338 Franchise, Catalog, and Nontrad Retailing, 3 cr, (97-99)
- 339 Textiles and Apparel in International Economy, 3 cr, (97-99)
- 380 Merchandise Planning and Control, 3 cr, (97-99)
- 385 Retail Trends Seminar, 3 cr, (97-99)
- 391-591 Study Tour, 1-6 cr, (97-99)
- 395 Field Experience, 3-4 cr, (97-99)
- 396 Internship, 3-10 cr, (97-99)
- 399 Special Work, 1-3 cr, (97-99)
- 400 Professional Development, 1 cr, (97-99)

- 425 Retail Management Strategies, 3 cr, (97-99)
- 439 European Retail Systems, 3 cr, (97-99)
- 471 International Retailing, 3 cr, (97-99)
- 490/690 Workshop, 1-4 cr, (97-99)

Russian:

- 243 Russian Literature in Translation, 3 cr, (83-85)

Safety:

- 278 Safety Instructor Certification, 1 cr, (89-91)
- 306 Industrial and Institutional Safety, 2 cr, (89-91)
- 397/597 Workshop in Safety Education, variable cr, (89-91)
- 399 Special Work, variable cr, (89-91)
- 796 Independent Study, (89-91)

Sociology:

- 431 Sociology of Religion, 3 cr, (83-85)
- 702 Intergroup Relations, 3 cr, (83-85)

Soils

- 260 Introduction to Soil Resources, 4 cr, (97-99)

Spanish:

- 201 Third Semester Spanish, 3-4 cr, (89-91)
- 202 Fourth Semester Spanish, 3-4 cr, (89-91)
- 449 Poetry and Drama of the Golden Age, 3 cr, (83-85)
- 450 Prose of the Golden Age, 3 cr, (83-85)
- 460 19th Century Spanish Literature, 3 cr, (89-91)
- 470/670 20th Century Spanish Literature, 2 or 3 cr, (89-91)
- 471 20th Century Spanish-American Literature, 2 or 3 cr, (89-91)

Theatre Arts (Drama):

- 527 Fundamentals of Playwriting, 3 cr, (91-93)
- 551 History of Theatre I, 3 cr, (91-93)
- 552 History of Theatre II, 3 cr, (91-93)
- 725 Problems in Play Productions, 3 cr, (91-93)
- 785 Creative Drama for Children, 3 cr, (91-93)

Water Resources

- 385/585 Techniques in Hydrogeology, 2 cr, (95-97)

Wildlife:

- 320 Wildlife and Society: Contemp Issues, 1-3 cr, (95-97)
- 321 Principles of Captive Wildlife Management, 2 cr, (95-97)
- 322 Techniques of Captive Wildlife Management, 2 cr, (95-97)
- 355/555 Wildlife Diseases, 2 cr, (95-97)
- 356 Wildlife Disease Methods, 1 cr, (93-95)
- 454/654 Nonconsumptive Uses of Wildlife, 2 cr, (95-97)
- 493/693 Wildlife Field Seminar, 1-2 cr, (91-93)

Graduate Study

Graduate Degree Programs

At UW-Stevens Point you may select among accredited programs leading to these graduate degrees:

- Master of Arts in Communication
- Master of Music Education
- Master of Science in Communicative Disorders
- Master of Science in Education: (General)
- Master of Science in Education-Elementary Education
- Master of Science in Human and Community Resources
- Master of Science in Natural Resources
- Master of Science in Nutritional Sciences
- Master of Science in Teaching with a specialization in biology, English, reading certification in English, or history.

In addition, you may take part in programs offered through UW-Stevens Point's cooperative arrangement with UW-Oshkosh which lead to the:

- Master of Business Administration
- Master of Science in Education-Guidance and Counseling

You may also take part in programs offered through UW-Stevens Point's cooperative arrangements with UW-Superior which lead to the:

- Master of Science in Education-Educational Administration or Specialist in Education-Educational Administration.

Responsibility and Policy

The graduate faculty, through the Graduate Council and Faculty Senate, establish general requirements for graduate degrees. Each department which offers a graduate program establishes discipline specific degree requirements.

Graduate Study policies intend to:

1. Facilitate orderly progress of graduate students through their degree programs;
2. Meet expectations of accrediting agencies, other graduate schools, and the University of Wisconsin Board of Regents;
3. Provide a common university standard and encourage the development of quality programs.

As a graduate student, it is your responsibility to become aware of and abide by graduate study policies. Every effort will be made by graduate study personnel, coordinators, and advisers to aid you as you progress through your graduate career at UW-Stevens Point.

Graduate Study

Graduate Faculty. Members of the graduate faculty have all earned terminal degrees (or equivalent), hold the rank of assistant professor or higher, and have successful teaching experience or continuing evidence of scholarly achievement and professional activity in their discipline. They are nominated by their individual departments and are approved by the UWSP Graduate Council. Graduate faculty status allows individuals to regularly teach graduate courses, direct graduate students' committees, and be actively involved in graduate affairs. Graduate faculty have a "G" following their listing which appears at the end of this catalog.

Graduate Council. The Graduate Council is a standing committee of the Faculty Senate. Its members include the chair of the graduate faculty, one representative for each

department or school with an existing graduate program, two representatives from the College of Letters and Science, one representative each from the College of Professional Studies, College of Natural Resources, and College of Fine Arts and Communication, one representative from the Learning Resources Center, and two graduate students. As the representative body of the graduate faculty, the Graduate Council has the authority to recommend and determine policies related to the graduate programs of the university (subject to review by the Faculty Senate).

Departmental Graduate Committees/

Coordinators. Most of the larger departments offering graduate degrees have graduate committees and/or a graduate coordinator to deal with policy matters related specifically to their graduate degree programs. These committees/coordinators have general departmental concerns, and they should not be confused with your personal graduate committee and your graduate adviser. Departmental graduate committees/coordinators serve ALL of the graduate students in the department. Your graduate adviser and your graduate committee serve YOU.

When you have questions about a specific degree program, go to the department committee or coordinator first. You will find that these coordinators or committees are a valuable resource of information.

Student/University Relationships

Freedoms and Responsibilities. The university assumes that graduate students have intellectual maturity and a sense of commitment to the academic community. The freedoms and responsibilities listed below are general guidelines for your relationship to the university.

As a graduate student you are FREE:

- to express yourself freely in the classroom and take reasoned exception to the data and views presented in any course.
- from prejudiced or capricious academic evaluation.
- from disclosure of views or beliefs presented to an instructor during graduate study, except with your consent.
- to organize and join associations to promote your common interests.
- to examine and discuss questions of interest both publicly and privately.
- exercise the rights you enjoy as citizens (the freedom of speech, peaceful assembly, and rights of petition) without interference from the university.

As a graduate student you have the RESPONSIBILITY:

- to help maintain the atmosphere of free inquiry and free expression inherent in the academic community.
- to respect the right of other members of the community to express themselves freely.
- to observe scrupulous standards of intellectual honesty.

Graduate Study Academic Ethics. Only work that is solely yours may be submitted to a professor in the form of an examination paper, term paper, class project, research project, or thesis, unless the instructor specifically authorizes group work.

Cheating and plagiarism are prohibited. Plagiarism is the process of stealing or passing off as your own someone else's words or ideas, or presenting as your own an idea or product which is obtained from an existing source. To avoid any appearance of plagiarism or accidental plagiarism, it is important that you learn correct citation

procedures for your discipline and your classes. The plea of ignorance regarding citation procedures or of carelessness in citation is no defense against allegations of plagiarism.

You may not:

- purchase papers from commercial sources.
- use a single paper to meet the requirements of more than one course unless the professors of the courses approve.
- submit a paper or project completed by someone else.

Research Misconduct Policy

Standards of Conduct. As a researcher, you are expected to retain appropriate documentation for your research and adhere to accepted ethical standards appropriate to your academic discipline.

Definition of Research Misconduct. Misconduct is intentional falsification of data, plagiarism, or other practices that deviate from common research practice within the academic community for proposing, conducting, or reporting research. Honest error and differences in interpretation of data are not considered misconduct. Misconduct is prohibited at UWSP and may be cause for discipline or dismissal.

Reporting Research Misconduct. Research collaborators, colleagues, and anyone who has reason to believe that research misconduct has occurred are responsible for reporting the misconduct. Retaliation because of good faith reporting of misconduct is prohibited. However, individuals found to have brought allegations of a frivolous and/or malicious nature are subject to the same range of disciplinary action as those who are found guilty of this policy.

Processing Research Misconduct: Allegations

- A. Report allegations in writing to the dean of the appropriate college. The accused and the dean of his/her college will be informed in writing within 10 days of the allegation: (1) that he/she is being investigated, (2) exactly what the allegations are, and (3) the identity of the accuser.
- B. The dean of the college will undertake a prompt and discreet inquiry. All matters pertaining to the investigation and evidence supplied will be kept in strict confidence. An inquiry consists of information gathering and preliminary fact-finding to determine whether an allegation or apparent instance of misconduct warrants an investigation. The initial inquiry will be completed within 60 days from the time allegations were made to the dean.
- C. If the inquiry concludes that the allegation of misconduct is unsubstantiated, and an investigation is not warranted, the reasons and supporting documentation for this conclusion will be reported to the chancellor, who will be responsible for reviewing the conclusion of the inquiry. If the chancellor concurs in the conclusion that an investigation is not warranted, his/her determination, and all other supporting documentation from the inquiry will be recorded and the record maintained confidentially for a period of three years after the termination of the inquiry.
- D. If the preliminary inquiry finds reasonable cause to believe the allegations are not frivolous or misguided, the matter will be referred to an ad hoc committee appointed by the dean for formal investigation. The accused will be given a copy of the report of the dean's inquiry. The committee members will be knowledgeable about the researcher's area of inquiry, but will not be involved with the research in question or in competition with the accused. It may be necessary or advisable in certain situations to invite researchers from other institutions to participate in the investigation. The investigation must be initiated within 30 days of the completion of the inquiry. If the research has

been supported by extramural funds, federal agencies require notification that a formal investigation is underway.

1. The ad hoc committee will determine whether misconduct has taken place and assess its extent and consequences.
2. If the ad hoc committee finds the charges to be true, regular governance procedures will be followed by the dean of the college in consultation with the associate vice chancellor in determining the proper course of action. Recommendations may range from reprimand to dismissal depending upon the seriousness of the misconduct. The investigation should ordinarily be completed within 120 days of its initiation.
3. A copy of the ad hoc committee's preliminary report will be provided to the individual being investigated. The dean shall give the individual an opportunity to discuss the matter with the ad hoc committee and himself/herself before any action is taken under D2 of this policy. The individual may reply in writing to the committee. These replies will be attached to the committee's report.
4. Appropriate agencies and journals will be notified by the dean of the college of the ad hoc committee's findings if the committee finds that misconduct is substantiated.
5. If the misconduct is not substantiated, extensive efforts will be made to restore the reputation of the accused.

Copyrights and Patents—

Any copyrights you obtain as a graduate student on your original works (theses, educational products, research papers) belong to you except when they are subject to prior agreements between the university and extramural sponsors.

You have complete ownership and control of any patents that result from inventions you make as a graduate student at UW-Stevens Point. However, you must honor any contractual rights of extramural sponsors if you develop an invention while being financially supported through a grant or contract. To insure such sponsor rights, you should sign a patent agreement with the external agency at the beginning of your assistantship. Contact the associate vice chancellor if you have any questions regarding inventions or patents.

Admission to Graduate Study

There are three admission categories designed to meet your graduate needs.

Graduate Regular: If you wish to pursue a master's degree at UW-Stevens Point, you will need to be formally admitted to the university as a graduate regular student. Submit to the Admissions Office a completed graduate study application form, the \$45 nonrefundable application fee, and official transcripts from each college you have attended (both undergraduate and graduate). The transcript from the college from which you graduated must certify that you have received your baccalaureate degree. Upon receipt of your completed application file, the Admissions Office will forward your application materials to the coordinator of your intended graduate program. You may then be asked to submit additional application materials to the graduate program coordinator.

Graduate Special: If you wish to take graduate courses but do not wish to pursue a master's degree at UW-Stevens Point, you may register as a graduate special. To attend UW-Stevens Point as a graduate special, you must hold a bachelor's degree from an accredited institution. You do not need to complete a formal application process. You will be granted graduate special status when you register for classes.

As a graduate special student you can enroll in graduate-level courses and receive graduate credit for teacher certification requirements or for personal enrichment. A maximum of 9 credits can apply toward a master's degree provided they are approved by your adviser and fit within the seven-year time period. If you decide to pursue a master's degree, it is in your best interest to change your status to graduate regular as soon as possible.

Graduate Guest: If you wish to apply credits taken at UW-Stevens Point toward a graduate degree at another institution, you are neither evaluated nor formally admitted to UW-Stevens Point, but are permitted to enroll in specific courses with the approval of your graduate adviser at the other institution. This procedure assures that credits taken at UW-Stevens Point will transfer properly to another institution.

Admission Status and Your Specific Degree Program

Successful admission to Graduate Study requires admission to a specific degree program. Most graduate programs require additional application criteria such as letters of reference, personal interviews, standardized test scores, verification of certification, etc. You should contact the graduate coordinator in your discipline for these additional requirements. The Admissions Office forwards your graduate study application file to the graduate coordinator of your designated program area for final consideration for admission to that particular program.

Admission to Candidacy

Admission to a specific degree program does not automatically make you a candidate for a master's degree. You must meet residency and evaluation requirements before you are a degree candidate. The formal admission to candidacy process varies from one program to another, but generally you must:

- Earn at least 9 credits in residence at UWSP.
- Remove any academic deficiencies and/or complete all subject matter prerequisites.
- Maintain at least a B grade point average.
- Select a graduate adviser (and a graduate committee if required by your discipline).
- Complete and get approval for your Program of Study.

Graduate Adviser

When you first enter your graduate program you will probably be assisted by a departmental graduate adviser who counsels all incoming graduate students. In some of our graduate programs this person continues to advise all students in the program until the degree is nearly completed. In other programs, you will need your own personal adviser who may also be known as your "major professor." This individual plays a key role in guiding you through your graduate career. Your graduate adviser should act as a personal adviser, mentor, advocate, constructive critic, and friend. Your graduate adviser is the person who should "go to bat" for you when you encounter problems with your program plan, courses, and/or research.

Selecting a Graduate Committee

Your graduate adviser may be required to use other graduate faculty to make final decisions about the acceptability of your program plan and the quality of your thesis, if you choose to write one. Therefore, give careful consideration to your choice of these critical advisers who

will form your graduate committee. The graduate coordinator or your graduate adviser normally assists in this process.

The graduate committee consists of at least three graduate faculty members including your graduate adviser. Try to ask a person from outside your major discipline area to serve on your committee. A nongraduate faculty member who possesses expertise particularly relevant to your field of study may be appointed as a special extra member.

Your graduate adviser and/or the graduate committee is responsible for supervising your program of study and should:

- Guide you in an appropriate selection of courses and experiences to ensure that you are aware of all relevant material necessary for a complete understanding of your chosen field of study. This not only includes concentration of coursework in your major area of interest, but also selecting courses to bridge the gaps you may have in your previous educational experiences. This may require you to take some undergraduate courses to make up for deficiencies.
- Determine whether you have accumulated and demonstrated sufficient ability to engage in the analytic process of problem solving. A graduate degree entails more than just taking additional courses within a major. You will be expected to demonstrate your ability to synthesize the new knowledge you have gained in your graduate courses and apply this knowledge to solve contemporary problems.
- Make certain that if you elect to write a thesis it is consistent with the degree, confronts the interdisciplinary relationships of your subject area, and focuses on problem-solving methodology.

Your graduate committee members, including your graduate adviser, will be listed on your Program of Study form. They must sign this form indicating their approval of your graduate program plan. If you desire a change in the composition of your committee, it is your responsibility to explain to the current committee members why the change is desirable or necessary. If the change is acceptable to the outgoing and incoming professors, you should then notify the graduate coordinator for your department, school, or college to complete the transfer of committee members.

Program of Study

You and your graduate adviser jointly develop a Program of Study which 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 which, 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 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.

180 Graduate Study

You may make minor changes in your approved Program of Study with the approval of your graduate adviser in consultation with the graduate committee members. Major changes such as course substitutions, changing of committee members, changing from thesis to nonthesis, etc. require formal concurrence of you, your major professor, your graduate committee, and the graduate coordinator of your department, school, or college.

General Requirements for All Master's Degrees

- A maximum of 9 credits completed at the time of admission.
- A minimum of 30 credits in graduate courses (Communication, 30 cr + 1 credit colloquium), (Communicative Disorders, 37 cr + 21 cr practicum).
- At least 15 credits must be taken in courses numbered 700 and above.
- An approved Program of Study must be on file with your adviser and the graduate coordinator of your department, school, or college before you complete 15 credit hours toward the degree.
- A minimum overall grade point average of 3.00.
- No more than 6 credits total in special topics courses and independent study courses may apply toward a master's degree.
- Successfully complete a culminating experience.

All credits accepted toward a degree, including transfer credits, must be earned within a seven-year period. The time period starts with the beginning of the term in which the first course approved for your program of study was taken. For example: You are accepted into a UWSP graduate program in fall 1999. Part of your approved plan

of study for your master's degree includes a course taken in spring 1997. Thus, your seven-year time period to complete the degree starts with the beginning of the spring 1997 semester, NOT the semester in which you were accepted into your graduate program.

General Requirements for All Master of Science in Teaching (MST) Degrees

In addition to the general requirements of all master's degrees, the MST degree has the following requirements:

- Eligibility for certification for teaching in the area of specialization (biology, English, history) in the state of Wisconsin or another state.
- The minimum of 30 graduate credits distributed among:
 - Group I:** Major area of specialization, 18-24 credits. These courses provide additional depth in your teaching field and increase familiarity with new knowledge, problems, and trends.
 - Group II:** Professional education, 6-9 credits. These courses enhance your understanding of education and improve performance in the art of teaching.
 - Group III:** Liberal studies, 0-6 credits. These courses are taken outside the content area of your specialization and broaden your knowledge and outlook.
- A minimum of the equivalent of a major in the area of specialization at the completion of the graduate program.
- A minimum grade point average of 3.00 in the area of specialization at the time of graduation.



Academic Information

Academic Standards and Probation

You must maintain at least a B average (3.00 grade point average) to remain in good standing in a graduate program. Graduate regular students who fail to maintain at least a B average will be placed on probation. You must raise your overall grade point average to a B or better with the next 9 graduate credits you take. While on academic probation you cannot carry a graduate assistantship appointment or be admitted to candidacy for a degree. If you fail to raise the overall grade point, you will be dropped from your degree program and will be automatically reclassified as a graduate special student.

Grades of C will be accepted in no more than 8 of the 30 credits that apply toward a degree. Coursework with a grade below C may not be used to satisfy graduate degree requirements. You may not repeat a course unless you get approval from the dean of the college offering the course. For courses taken at this university, only the credit and grade earned in your second attempt will be figured into your grade point average, but the original grades are not taken off your record. If you plan to repeat a course, pick up a request to repeat a course form from Registration and Records and have it approved by the appropriate dean.

If you need to take extra credits to raise your grade point average, you may take only 6 credits beyond the 30 credit minimum requirements for the degree.

Incomplete and Pass/Fail Grades. You must remove a grade of incomplete before the end of the next semester. If not, it automatically becomes a failure unless it is a culminating experience course. Courses with pass/fail grades do not apply to a graduate degree program.

Academic Progress Standards for Graduate 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. The following 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, W, or WF. Plus and minus grades are included.
2. These standards are applied after you have accumulated 9 or more "semester hours enrolled."
3. Incomplete grades in thesis courses are excluded.
4. Transfer credits are excluded.
5. According to federal regulations, you are no longer eligible for financial aid after you attempt more than 48 graduate credits.
6. If you re-enter after being out of school one or more semesters, you must be making satisfactory academic progress at the time you re-enter in order to qualify for financial aid.
7. If you are ineligible for financial aid due to unsatisfactory academic progress, you may appeal to

the dean of your college for special consideration if you feel your lack of progress is due to extenuating circumstances.

Active/Inactive Status

Admission to a graduate program is usually granted to begin graduate coursework in a specific term (semester or summer session). If you delay your enrollment beyond the specific term of your admission (or if your admission letter does not include a specific term of admission), contact the Admissions Office to find out what will be needed to enroll in a future term.

If you do not earn any graduate credit for a period of five consecutive terms, you will be considered inactive and must be readmitted before enrolling. Inactive students who reapply must meet admission standards in effect at the time of readmission and must meet degree requirements that are in effect at that time.

Courses

The courses approved for graduate credit are listed in the undergraduate *Courses of Instruction* section of this catalog by academic department. All courses in your approved Program of Study will be in the 500-799 group. You must have graduate standing to take courses numbered 700 and above.

Dual numbered (slash) courses are those numbered in the 300/500 and 400/600 range and are offered simultaneously at the undergraduate and graduate levels. You may change an undergraduate course to a graduate course ONLY during the semester in which you are enrolled in the course, with the consent of the instructor.

When you take dual numbered courses as a graduate student you must meet at least one additional qualitative objective beyond the requirements for the undergraduate students in the same course. This might be a research project with a written and/or oral report, a term paper, a seminar or presentation given to the class, a product that can be used in class and shared with others, an essay or oral examination instead of an objective examination, etc. These additional qualitative objectives should be included in the syllabus for the course.

In addition, faculty members teaching dual-numbered courses should use instruction methods that involve dialogue, student discussion, and student presentations. Where this is not feasible for the entire class, there should be additional discussion/seminar sessions for the 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 those with similar qualifications (on an exceptional basis) in formats that allow for adequate reflection and integration of learning and meet the UW System requirements of (1) no more than one credit per week (seven consecutive days), (2) at least 800 contact minutes per credit, and (3) at least 1,600 minutes of out-of-class work per credit.

Credit Load and Limitations

You should register for credit any time you use the physical or personnel resources of the university to fulfill the requirements of your degree program. You can register on a per credit basis when you are doing research and/or working on a project, paper, or thesis at UW-Stevens Point. The instructor or graduate adviser determines the number of credits according to the scope of the project.

The normal graduate course load for a semester is 9 to 12 credits. If you register for 9 or more credits you are considered a full-time graduate student. Undergraduate and audit 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 the summer is not advised.

If you are supported by a full-time assistantship, we expect you to devote at least half of your time to your assistantship duties. Therefore, you should enroll for a maximum of 9 credits per semester.

You do not need to be registered during the semester that you graduate. However, some programs require that you must be enrolled in thesis or project credits each semester in order to maintain your status as a degree candidate. If your last semester only involves completing your thesis, you may enroll in **Research 798** with the approval of your graduate adviser and graduate program coordinator. This zero credit "course" will allow you to use e-mail, retain graduate student library privileges, and postpone federal loan payments. Or if necessary, the registrar will write a letter certifying that your thesis work involves at least 50 percent of your time.

Culminating Experience

You must successfully complete a culminating experience. The individual colleges or departments determine the nature of this experience subject to approval by the Graduate Council. Examples of experiences which may meet this requirement include: thesis, seminar paper, oral and/or written comprehensive examination, clinical paper or semester, integrative course, exhibition, or recital. Most programs will require more than one of the above experiences.

Degree Completion Time Limit

All credits accepted toward a degree, including transfer credits, must be **earned within a seven-year period**. The time period starts with the beginning of the term in which the first course approved for your program of study was taken. For example: You are accepted into a UWSP graduate program in fall 1999. Part of your approved plan of study for your master's degree includes a course taken in spring 1997. Thus, your seven-year time period to complete the degree starts with the beginning of the spring 1997 semester, NOT the semester in which you were accepted into your graduate program.

Drop/Add Procedure

Refer to the timetable for drop/add (change of registration) instructions. Get drop/add forms in the Registration Office.

Employed Students

If you are employed, you should consider the time demands of that job when planning an academic program. Certain fellowships, assistantships, and scholarships specifically limit other employment. You have the obligation to learn these restrictions and abide by them if you receive one of these awards. As a graduate student at UWSP, you are considered a student first. Employment within or outside of the university is of secondary consideration when determining the time devoted to the academic program.

Fee Assessments for Grad Credits

When you are admitted to a graduate degree program with graduate regular status, graduate fees are assessed for graduate credits and undergraduate fees are assessed for all undergraduate credits.

As a graduate special student taking courses for personal enrichment or teacher certification, you pay undergraduate fees for all undergraduate courses and graduate fees for graduate courses.

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 which you can obtain from the Registration Office. You pay graduate fees for graduate credits taken

during the split program period. Note that this is not a guarantee that these credits will be accepted into a master's program.

Grading Standards

According to Graduate Study policy:

- A Indicates superior work.
- B Indicates satisfactory but undistinguished work.
- C Indicates work below the standard expected of graduate students.
- D/F Clearly indicate unsatisfactory work and do not apply toward your degree.
- GP Indicates thesis and thesis-like courses in progress.

Graduation Requirements

Applications for graduation are available in the Registration and Records Office. You need to turn in an application before the start of your last semester. Candidates for summer graduation should turn in an application by January (the start of the semester preceding summer). All requirements must be completed by the end of your graduation term. If they are not completed by then, you must complete a new application for the next term in which you expect to graduate. There is a one time graduation fee of \$30.00

You should check with your adviser and graduate program coordinator by the middle of your last term to be sure your file is complete except for the elements you know are outstanding, e.g. current courses, thesis approval, etc.

Since there is no August commencement, you may choose to participate in the prior May or following December ceremonies. Notify Registration and Records at least two months before the commencement you wish to be in so there is time to include your name in the commencement program.

Incompletes

A grade of incomplete indicates that you have done satisfactory work in the course, but because of circumstances beyond your control you have been unable to finish all requirements. The incomplete is not given to enable you to do additional work to bring up a deficient grade. A grade of incomplete must be removed before the end of the next semester. Except for culminating experience courses, if the incomplete is not removed within that time, it automatically becomes a failure.

Registration

Follow current registration procedures that are published in the timetable which is available in the Registrar's Office. Registration instructions for off-campus and credit-outreach courses are available from the UWSP Extension Office of Credit Outreach, Room 012 Main Building.

Schedule of Classes

The timetable contains registration instructions and the schedule of all the courses to be offered in the following semester. Note that not all of the courses listed in the catalog are offered each semester. You should consult the timetable and your department chair when planning for registration in any given term.

Second Master's Degree

If you have earned a graduate degree from UW-Stevens Point and wish to pursue another degree, you must submit a new application for admission. Normally, you do not need to furnish transcripts or other credentials previously submitted. Check with the Admissions Office to be certain

that your records are complete. *Credits earned for one degree usually cannot be used to satisfy the requirements for a second degree.*

The Thesis

Some degree plans require a thesis. After you select a research topic, submit a proposal to your graduate adviser briefly describing what you want to do and how you plan to do it. Your graduate adviser and thesis committee review your proposal, determine how many credits (up to 6) you earn for writing the thesis, and approve or reject the proposal.

A thesis is a formal written work and should follow the standards of the style manual preferred by your department. Also consult the Graduate Study Thesis Manual and your graduate adviser for proper format.

If you are working on your thesis the equivalent of half time and not enrolled in other classes, you may enroll in **Research 798** with the approval of your graduate adviser and graduate program coordinator. This zero credit "course" will allow you to use e-mail, retain graduate student library privileges, and postpone federal loan payments. You may enroll only twice.

As a degree candidate, you defend your thesis in an open, public oral examination at least 30 days before you expect to graduate. Your thesis committee conducts the examination.

You must deposit a **bound** copy of your thesis at the University Library in order to complete your degree. The library provides a service for binding your thesis at a nominal cost.

Transcripts

To get a copy of your transcript, fill out the proper form in the Registrar's Office and pay the appropriate fee. A UW-Stevens Point transcript includes all of your UW-Stevens Point academic record.

Transferring Graduate Credits

UWSP does not automatically accept transfer graduate credits from other institutions. You must submit a formal application for approval of such credits. While credits taken prior to admission to a graduate degree program may be considered at the discretion of the coordinator of that program, in most cases you should obtain approval for any transfer credit **PRIOR** to taking those courses. The graduate coordinator for each program will determine the acceptability of transfer credits using the following criteria:

- The course must be from an institution regionally accredited **at the graduate level.**
- You must have taken the course for graduate credit at the offering institution.
- The course must be acceptable toward fulfilling degree requirements at the institution offering the course.
- The format and number of contact minutes (minimum of 800 minutes instructional time **PER CREDIT**) must be at least as rigorous as those for UWSP graduate courses,
- One credit per week is accepted.
- The course may not be a correspondence and/or mass media course, independent study course, or from extension divisions outside the UW System. Continuing Education Units (CEUs) are not equivalent degree credits and are not transferable.

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- Acceptance of the course does not make you exceed the 9 credit transfer limit.
- A maximum of 9 credits taken with graduate special status will apply toward a degree.
- You must have earned grades of A, B, or equivalent.
- You may not transfer credit applied toward another degree that you have already obtained.

If your graduate coordinator determines that the transfer course meets these minimum criteria, she/he may:

- Accept the transfer course and have the credits apply toward your Program of Study.
- Accept the transfer course as AN ADDITION to the normal 30-credit Program of Study.
- Accept the course as either applying to your degree plan or as an addition to the degree plan, but at a reduced credit level if the course does not meet UW-System's contact-hour-per-credit standards.

You must **complete a formal application for approval** of transfer credits before graduate credits from any institution other than UWSP can be considered. File the application for transfer credits with your graduate coordinator at least a month before the class begins. Your application must include (1) a photocopy of the catalog course description, (2) a course syllabus (if available), (3) verification that the course is a graduate course, (4) and verification that it is applicable to a graduate program at the institution offering the course.

After your graduate coordinator approves the transfer credit application, a copy will be sent to the Registration and Records Office which will add the transfer credits to your record after receiving an official transcript indicating completion of the course with at least a B (3.00). You will be notified when this is completed.

UWSP Extension

If you wish to continue or renew your education, you may take one of the graduate or undergraduate credit courses offered through the UWSP Extension Office of Credit Outreach, Room 012 Main Building; 715-346-3838 or 800-898-9472 (in Wisconsin).

Credit courses are taught by faculty at various sites throughout Central Wisconsin as well as via television/distance learning. These courses are offered primarily in the evening or on weekends to accommodate the busy schedules of working adults.

Withdrawing from Classes

When you withdraw, you terminate your complete registration for the semester. To withdraw, go to the Registration and Records 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 for the University of Wisconsin System provides the financial resources for a number of graduate assistantships. In addition, several college units have extramural funds to employ graduate assistants. When you have a full-time assistantship you can plan to work half time (20 hrs per wk) for the university. If you are a nonresident student and have at least a half-time assistantship or fellowship, you are also eligible for out-of-state fee remissions.

To qualify for graduate assistantships, you must:

- Be admitted to a graduate degree program at UWSP.
- Be in good standing in the degree program (maintain at least a 3.0 GPA).
- For a research assistant, enroll for at least 9 graduate credits per semester or 5 during the summer. For a graduate assistant enroll for at least 4 graduate credits per semester or 3 during the summer.

We recommend that graduate assistants limit their maximum course loads to 9 credits a semester.

We award assistantships on a competitive basis through departments to students admitted to a graduate program. Departments normally screen applications in the spring for fall appointment. Contact your department graduate coordinator for the criteria used to select graduate assistants.

If you are selected for an assistantship, you will enter into a contract with the university. The contract includes a description of the position offered, stipend, and length of employment. Discuss the specific nature of your responsibilities as a graduate assistant with your immediate supervisor at the beginning of your appointment.

As a graduate assistant you are normally required to be on campus for the same work periods as faculty. You are entitled to official holidays and normal break periods between sessions. Your specific work schedule, however, is at the discretion of your immediate supervisor. This is usually your graduate coordinator or department chair if you are a graduate assistant, or your graduate adviser if you are a research assistant. Arrange your work schedule at the beginning of the semester so that it does not conflict with your class schedule. Any changes 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 which is at least 20 hours per week in a regular session and 10 hours per week in a summer session. The remaining half time is devoted to your academic Program of Study. Therefore, we actively discourage employment in addition to the assistantship.

Graduate Assistant

As a graduate assistant you get professionally-related assignments that assist the university such as paper grading, assisting faculty in laboratory sections, research projects, developing materials for classroom instruction, assisting in departmental libraries, etc. You may be assigned duties such as gathering, organizing, and analyzing information for a department which may entail routine clerical, secretarial, or accounting procedures. However, the main thrust of the assignment is a learning experience.

The funds to support graduate assistants come directly from the university on a fiscal-year basis. Consequently your appointment is for a semester or academic year and cannot be assured for more than one academic year at a time.

As a graduate assistant you are an employee of the university, and your salary is taxable. You may be eligible for insurance benefits. Contact the Staff Benefits Office for more information.

Instructional Assistant

As an instructional assistant you will be given professionally related instructional assignments in the classroom under the direction of a graduate faculty mentor. You are also expected to participate in an instructional training and assessment program during your assistantship appointment. The instructional assistantship is a subcategory of graduate assistantships and, therefore, your salary is taxable. You may be eligible for insurance benefits. Contact the Staff Benefits Office for more information.

Research Assistant

As a research assistant you get paid for performing certain research duties. Research assistantships are only available in graduate programs where research is required as part of the degree requirements of all students who are candidates for the same degree. The assigned duties must be directly applicable to your degree requirements.

The funds for the stipend may come directly from the university or from an external sponsoring agency. Since the research is a degree requirement, the service you provide the university as a research assistant is taxable. You may be eligible for insurance benefits. Contact the Staff Benefits Office for more information.

Program/Project Assistant

Usually an external source provides funds to employ program/project assistants. Your duties as a program/project assistant are similar to those of the graduate assistant but are usually more specific and are dictated to the university by the sponsoring agency in a grant or contract. Taxability and benefits are the same as the graduate assistant.

Graduate Fellowship

A fellowship is a gift and requires no services from the recipient. The nontaxable funds come to the university from an external source, usually through a grant or contract. If you receive a fellowship, you cannot provide any service to the university or the sponsor for the funds you receive. To remain eligible for a fellowship you need to be in good academic standing in an approved academic program and participate in a prescribed Program of Study.

Student Research Fund

The Student Research Fund provides graduate students with funds to help defray research expenses that are required for their master's degree. If your degree program requires research or if you choose a research option in your program, you are eligible to apply for a grant from this fund. Your graduate adviser must certify that:

- The research project is required for graduation.
- You are making satisfactory progress toward your degree.
- The funds are necessary for you to complete the research.

Proposal deadlines occur twice each semester. Contact the Grant Support Office for application forms. A review

committee screens the grant applications and makes award recommendations.

Fee Waivers for Out-of-State Students

If you are a nonresident graduate student with at least a one-third 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) in order to be eligible for financial aid.

Part-time Employment

We discourage part-time employment because a full academic credit load of graduate studies requires so much of your time. If you are working full time, we recommend that you register for no more than 6 credits a semester or 3 credits for an eight-week session. We especially discourage supplemental employment if you have a full-time graduate assistantship.



Checklist for Master's Degrees

Below is a series of steps, in chronological order, that you should complete in order to obtain a graduate degree from UW-Stevens Point. Since the requirements are different for each degree, not all the steps listed will apply to your degree plan. However, the list is provided for you to keep

track of your progress as you work toward the completion of your degree requirements. Nearly all of the steps require you to fill out a printed form and get it approved before you move on to the next step.

Procedure/Event	Time Frame for Completion	Comments
Apply for graduate study (Get form at Admissions Office, 102 Stu Serv Ctr).	Before registering for a graduate class.	Required of ALL students attempting to earn a graduate degree.
Pay \$45 application fee.	When you apply to a graduate degree program with graduate regular status.	Not required of graduate special students.
Have official transcripts (except those from UWSP) sent to Admissions Office.	Before graduate regular status can be determined.	Not required of graduate special students.
Admissions will send your application file to the graduate program coordinator of your intended field of study.		
Submit other required documents to graduate program. Includes GRE scores, letters of reference, interviews, certification, other.	Before the application to a degree program can be considered.	Check with the graduate coordinator of the specific degree program. Not all programs require all of this information.
Acceptance by the graduate program.	During first semester of residence.	
Assignment/selection of graduate adviser.	Early, but depends on each program.	
Assignment/selection of graduate committee.	Early, but depends on each program.	Do this as soon as possible. Not required in all degree programs.
Program of study form, filed and approved.	Before you acquire 15 credit hours.	
Admission to candidacy.	Before you acquire 15 credit hours.	
Thesis/research topic approval. Varies with program.		
Culminating experience –Clinical semester/practicum –Comprehensive exam –Seminar –Seminar paper –Educational product –Exhibition/recital –Thesis	Approved 30 days before graduation. Deposited in LRC 10 days before graduation (if participating in commencement ceremony). Approved and deposited in LRC by graduation date (if not participating in ceremony).	
File application for graduation.	Before the start of your last semester.	
Application for graduation approved.	Approximately two weeks before graduation.	

GRADUATE PROGRAMS Biology

Robert Bell, Graduate Coordinator
Room 167, College of Natural Resources Building
Phone: 715-346-2159
E-mail: rbell@uwsp.edu

The Biology Department offers the Master of Science in Teaching (MST) degree. The program is designed for teachers and includes some work in education. If you are interested in a Master of Science (MS) degree, examine the Master of Science in Natural Resources. Several biologists have joint appointments in the College of Natural Resources and serve as major advisers for that degree.

To determine your specialization within a degree, meet with your graduate committee. If you are admitted without deficiencies, you have great flexibility in designing your program. In the MST, you may take credits in the liberal arts category (in addition to biology) in chemistry, geology, and physics.

As a secondary school teacher, the MST program will give you the opportunity for advanced study, experimentation, research, and involvement in various professional activities.

Admission to the Program

A three-member admissions committee reviews your application to determine if you have completed the equivalent of UW-Stevens Point's undergraduate major with collateral requirements in chemistry and mathematics. If you are missing required courses, they list these as deficiencies, and you complete these at the undergraduate level.

In order for you to be admitted, your overall grade point average (GPA) in your major, including collateral courses, should be 3.00 (B) or higher. If it is below this level, the committee reviews your overall GPA. If this is below 3.00, they usually suggest that you enroll as a graduate special student to demonstrate your ability to perform graduate-level work. You are accepted into a thesis plan only when a faculty member agrees to serve as your thesis adviser.

Culminating Experience

Nonthesis Option: Under this option you complete a research paper which grows out of your participation in Education 707, Educational Research. You also take a final oral or written comprehensive examination administered by your graduate committee. This is based primarily on the courses you have taken in the degree program but also may review your knowledge of concepts and your problem-solving skills.

Thesis Option: Under this option your thesis committee reviews your thesis research proposal and evaluates the final product. You also take a final oral examination. This is based primarily on the thesis but also may include questions on coursework you've taken and your knowledge of concepts.

Communication

Chris Sadler, Graduate Coordinator
Room 312, Communication Arts Center
Phone: 715-346-3898 or -3409
E-mail: csadler@uwsp.edu

In the Division of Communication you may work toward the Master of Arts (MA) in Communication degree specializing in organizational communication, interpersonal communication, public relations, and mass communication. Many students elect to take most of their coursework in one area and one or two courses in an adjunct area. Some will achieve a blend between areas, depending upon how they define an area of concentration. Working with your adviser, you define a plan of study best suited to your career aspirations.

Although a full-time student can complete this program in two years, many plan a two to five year part-time program. You must earn a minimum of 30 graduate credits, plus one credit for colloquium, but many students finish with more than 31 credits.

Admission to the Program

To be admitted to the Master of Arts in Communication program you need to:

1. Complete a baccalaureate degree from an accredited institution.
2. Submit undergraduate transcripts with GPAs.
3. Submit results of the Graduate Record Examination. (You may appeal to the graduate coordinator for an exception.)
4. Submit a statement of purpose which explains what role the completed degree will play in your future.
5. Submit a 5-7 page sample of your writing ability.
6. Write a brief analytical/critical response to a common essay provided to all applicants.
7. Provide two letters of recommendation that address the likelihood of your success in a graduate program.
8. Document relevant work experience that you want the admissions committee to consider.
9. If you are a foreign student, present a current TOEFL score of 575 or higher. Please inquire about other requirements for foreign students.

Additional Information

1. You will be admitted to the graduate program in communication on a **probationary** basis.
2. Full-time students are admitted in the fall only.
3. All communication graduate students must take Communication 701 and 702. All other coursework for your graduate degree is determined by you with the help of your adviser and other graduate faculty.
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:

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1. **MA candidate:** They grant you clearance to establish an advisory committee and obtain approval of your Program of Study.
2. **Conditional candidate:** They recommend steps you should take, and then they re-evaluate your status once you have completed their recommendations.
3. **Special student:** 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/exam 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/project/exam. You choose the members of your graduate committee which 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/project/exam.

Program Planning

You may choose one of three options:

Option 1--Thesis: 24 credits of coursework, plus 6 credits for thesis, and one colloquium credit. With the help of your graduate adviser, you form your thesis advisory committee which consists of an adviser and two additional members. 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/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. With the help of your graduate adviser, you form your project committee which consists of an adviser and two additional members. 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.

Option 3--Exam/Portfolio: 30 credits of coursework, one colloquium credit, comprehensive exam, and portfolio of graduate work. With the help of your graduate adviser, you form your plan of study. After you have completed 21 credits, with the help of your graduate coordinator, you form your exam committee, which is made up of faculty who taught your graduate-level courses at UWSP. This committee helps you put together your graduate portfolio and directs the five hour exam covering your graduate coursework. The exam may be taken no more than three times.

NOTE: All graduate students in the program:

- a. Must have at least 15 credits of 700 level courses (no more than 3 credits can be independent study).
- b. Must take Communication 701 and 702 plus at least two additional graduate level seminars.
- c. In addition to taking one credit of colloquium, must give a presentation at colloquium based on individual thesis, project, or graduate portfolio.

Communicative Disorders

Robert Balas, Coordinator of Academic Programs
Room 034, College of Professional Studies Building
Phone: 715-346-2739
E-mail: rbalas@uwsp.edu

In the School of Communicative Disorders you may work toward the Master of Science (MS) degree with either of two specialization options: speech-language pathology or audiology. In each area you receive the academic background and clinical practicum required to function competently and independently in a variety of professional employment settings.

The School of Communicative Disorders at UW-Stevens Point was among the first in the country to be accredited by the Education and Training Board of the American Speech-Language-Hearing Association. The program provides a quality education which emphasizes training in the prevention, evaluation, and treatment of disorders of hearing, speech, and language. Our graduates are located from coast to coast and in foreign countries in schools, universities, hospitals, and public and private clinics.

Clinical training begins at the undergraduate level and culminates with a clinical semester at the end of your graduate program. In consultation with the director of Clinical Services, you select a site (school, clinic, hospital, etc.) for a 15-week, concentrated, supervised practicum.

Admission to the Program

For either specialization you must have completed specific courses and practicum experiences at the undergraduate level. The coordinator of academic programs determines whether you have any deficiencies which you must eliminate them as soon as you enroll in the graduate program. For a detailed list of course content and practicum experiences required at the undergraduate level, ask the School of Communicative Disorders for a copy of the *Graduate Handbook: Speech-Language Pathology and Audiology*.

Admission to Candidacy

You must complete at least 9 credits of graduate work with a GPA of 3.00 (B) and not more than one grade of B-

Specializations

In either specialization you must meet the minimum standards for clinical certification as established by the American Speech-Language-Hearing Association which are in effect at the time you graduate.

Culminating Experience

In either area of specialization, you must fulfill a clinical semester (15 credits) after you have completed the appropriate coursework and clinical practicum. In the clinical semester, you are assigned full time for one academic term to a hospital, clinic, school, etc. to gain professional experience in the type of setting which most interests you.

Education

School of Education Graduate Advising Office
 Jay Price, Graduate Coordinator
 Dianne Smith, Student Status Examiner
 Room 438, College of Professional Studies Building
 Phone or Fax: 715-346-4403
 E-mail: jprice@uwsp.edu
 d1smith@uwsp.edu

The School of Education offers the following graduate programs:

- Master of Science in Education—Elementary Education. Open to certified teachers.
- Master of Science in Education—General. Open to certified elementary or secondary teachers with two or more years **full-time** teaching experience.
- Master of Science in Teaching. Refer to biology, English, and history—the three departments that offer this degree.

You may also work toward:

- Master of Science in Education: Educational Administration **OR** the Specialist in Education: Educational Administration, offered in cooperation with UW-Superior.
- Master of Science in Education: Guidance and Counseling, offered in cooperation with UW-Oshkosh.

Resources

School of Education-Graduate Advising Office, Rm 438, College of Professional Studies Bldg, 715-346-4403 for:

- School of Education graduate program admittance
- Graduate level certification programs (reading and special education certifications)
- Graduate/undergraduate catalogs
- Program planning and adviser assignment
- Planning sheets/program outlines
- Program of Study change forms
- Credit checks
- Graduate exams in education
- Application for graduation
- School of Education-Graduate Newsletter
- Education Graduate Advising Web Page—Links you to information and resources, including forms you can download.

The **Admissions Office**, Room 102, Student Services Center, 715-346-2441 provides applications to UWSP to pursue graduate study.

The **Registration and Records Office**, Room 101, Student Services Center, 715-346-4301:

- On-campus timetables
- Registration information (mail/walk-in)
- Requests for official transcripts
- Application for graduation.

The **UWSP Extension Office of Credit Outreach**, Room 012, Old Main Building, 715-346-3838:

- Off-campus timetables
- Registration for outreach and distance learning courses.

Master of Science in Education – Elementary Education

Admission to the Program

You must submit an application to pursue graduate study at UWSP **before** you can be admitted to the MSE–Elementary Education program. Obtain admission applications from the Admissions Office, Room 102, Student Services Center or the School of Education Graduate Advising Office, Room 438, College of Professional Studies. You must submit official transcripts covering your undergraduate coursework and any additional coursework listed on your application. The Admissions Office will process your application and then notify you that your materials will be forwarded to School of Education Graduate Advising. At that time, your application will be reviewed by School of Education Graduate Advising for admittance to the “program.”

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.

Admission to Candidacy

Program planning: Admission to candidacy (program planning) does not occur until after you have applied to pursue graduate study at UWSP (Admissions Office) and been admitted to the elected program of study (School of Education Graduate Advising). Once you are admitted you will receive a “working copy” form and program planning guidesheet which you are to use for preparing your proposed plan of study.

To be accepted as a candidate:

1. Complete no more than 9 credits of graduate work. You may apply earlier, but you should be admitted to the program and **meet with your adviser before you have completed 9 graduate credits.**
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. Complete and receive approval for your Program of Study.

The Program

Earn 30 credits in graduate courses:

1. **Professional education:** 9 credits which include foundations, curriculum, and research courses. Educ 782 may substitute for Educ 707 only with adviser approval prior to enrollment.
2. **Liberal arts:** 6-9 credits outside education (courses without the EDUC prefix).
3. **Area of specialization:** of the remaining education credits, at least 3 must be from courses in instructional methods, supervision and instruction, reading, foundations, etc. Advisers may approve exceptions for 500 level courses.

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,
 -OR-

Nonthesis Option: Take Educ 707 or 782 and write a noncomprehensive examination. You must have at least 24 credits completed toward your Program of Study including the required component area coursework before

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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 the School of Education Graduate Advising Office at 346-4403.

Exit Interview (credit check for graduation)

You must complete an exit interview one semester prior to the semester in which you plan to graduate. This interview will generate a credit check on your progress and requirements and provide a one-semester "cushion" to cover discrepancies. You will receive the application for graduation at the exit interview and you apply for graduation after the interview.

Deadlines: Decide on the term in which you anticipate receiving your diploma. Schedule your credit check, sign up for exams and apply for graduation by the month indicated.

- Apply by August for December diploma and graduation ceremony.
- Apply by December for May diploma and graduation ceremony.
- Apply by December for August diploma. There is no ceremony in August; however, candidates may request to participate in either the May ceremony before graduation or the December ceremony after graduation.

Master of Science in Education – General

This degree is for licensed teachers with at least two years of **full-time** elementary or secondary teaching experience. Substitute teaching will be considered for this requirement, but student teaching and interning will not. The program allows you to design a plan of study that meets your specific needs. You may incorporate credits from several disciplines into the 30 required graduate credits provided you can verify a professional need for them.

Admission to the Program

You must submit an application to pursue graduate study at UWSP **before** you can be admitted to the MSE (General) program. Obtain admission applications from the Admissions Office, Room 102, Student Services Center or the School of Education Graduate Advising Office, Room 438, College of Professional Studies. You must submit official transcripts covering your undergraduate coursework and any additional coursework listed on your application. The Admissions Office will process your application and then notify you that your materials will be forwarded to School of Education Graduate Advising where your application will be reviewed for admittance to the "program." You will also need to:

1. Send a copy of your teaching license to School of Education Graduate Advising.
2. Have an employing official provide a letter certifying that you have two or more years of **full-time** teaching experience. Interning and student teaching experience do not apply, but substitute teaching will be considered. For substitute teaching, have an employing official provide a letter documenting the number of days of substitute teaching with less than five hours a day and the number of days with five or more hours per day.

3. Have an employing official provide a letter of reference for you.
4. Have an undergraduate grade point average of 3.00 or higher. If your undergraduate GPA is below 3.00, you may be admitted on probation. You will then need to establish a minimum 3.00 cumulative GPA on your first 9 resident graduate credits at UWSP to be fully admitted.

To allow time for processing, you must apply no later than mid-semester of the semester **BEFORE** you want to be admitted.

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–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 which includes reading teacher (316), reading specialist (317), any of the special education certifications, the gifted/talented specialization, the technology and leadership specialization, or English as a Second Language (ESL) as part of your master's degree.
- **Option C, content specializations outside the School of Education:** 21 credits from outside education–courses *without* an EDUC prefix. Secondary candidates will pursue this option.

Admission to Candidacy

Program planning: Admission to candidacy (program planning) does not occur until after you have applied to pursue graduate study at UWSP (Admissions Office) **AND** been admitted to the elected program of study (School of Education Graduate Advising). Once you are admitted you will receive a "working copy" form and program planning guidesheet which you are to use for preparing your proposed plan of study.

You must submit a rationale statement with the proposed plan of study which 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 (i.e., curriculum, math, reading, etc.) and write a rationale for each group. You may prepare the rationale statement in paragraph format and attach it to the "working copy."

Please note that the "working copy" is **NOT** the final Program of Study. It is a tool used to assign an adviser whose background most closely parallels your area of interest and/or expertise. The "working copy" will be used at your advising conference to develop a formal plan of study which your adviser will approve.

Adviser assignment: The School of Education Graduate Advising Office makes all official adviser assignments after your proposed plan of study and rationale statement have been received. You may **request** a specific adviser at this time. School of Education Graduate Advising will send you a letter of adviser assignment which includes the address, phone number, and e-mail address of your adviser. You will need to schedule an advising conference with your assigned adviser in order to have your plan of study officially approved.

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.

You will receive a copy of the official Program of Study once the advising process has been completed. The original will be retained in the School of Education Graduate Advising Office. If you want to change your officially approved Program of Study, you must fill out a "change of study" request and forward it to School of Education Graduate Advising for processing prior to enrollment. Contact School of Education Graduate Advising if you have further questions regarding changes to your Program of Study.

Culminating Experience

Complete one of the following options:

Thesis Option: Write a thesis and a comprehensive examination covering liberal arts.

OR

Nonthesis Option: Enroll in either Education 707 or 782 (as approved by your adviser) and complete a comprehensive examination covering 12 credits from your Program of Study which 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 the School of Education Graduate Advising Office at 715-346-4403.

Exit Interview

Same as the MSE-Elementary Education. See above.

Graduate Certification Programs

The School of Education offers graduate certification programs in:

1. **Exceptional Education**
 - a. Early Childhood: Special Education
 - b. Emotional Disabilities
 - c. Learning Disabilities
 - d. Cognitive Disabilities-Borderline
 - e. Multicategorical Special Education
2. **Reading**
 - a. Reading teacher (316)
 - b. Reading specialist (317)
3. **English as a Second Language (ESL)**

You may complete these certifications as specializations in the MSE (General) degree via Option B or by enrolling as a graduate special student and pursuing certification only. Please forward a letter of intent to the School of Education Graduate Advising Office indicating which certification you wish to pursue. At that time a file will be established for you and an adviser assigned. Curriculum requirements for each of the certification areas are described below.

NOTE: If you are pursuing graduate level certification, you must DECIDE EARLY whether to incorporate credits for certification as part of the MSE-General degree. You may obtain a master's degree which incorporates certification by taking a course in each of the required component areas (foundations, curriculum, and research). You can have no more than 9 completed graduate credits at the

time your official Program of Study for the master's degree is approved. You CANNOT complete certification requirements and then apply for the master's degree anticipating completion of only 9 additional credits to obtain the master's degree.

The certification program plan is NOT the same as the master's Program of Study. The certification program plan outlines coursework required for certification only. The master's program plan outlines coursework required for the awarding of the master's degree. In some cases, coursework will apply to both programs. Certification candidates, therefore, will have two program plans on file: one which leads to certification and another which leads to the awarding of the master's degree. It is conceivable that a candidate may complete the requirements for one program plan prior to completing requirements for the other program plan. For further information contact the School of Education Graduate Advising Office.

Graduate Certification Programs in Exceptional Education

You may complete these certifications as specializations in the MSE (General) degree via Option B or by enrolling as a graduate special student and pursuing certification only.

Early Childhood: Special Education

To receive certification, fulfill these requirements:

1. Professional preparation: Complete a bachelor's degree in early childhood ed, exceptional ed, or elementary ed, including these required courses: Early Childhood Ed 364; Educ 398; and Psychology 260 or HD 261.
2. General exceptional education: Complete Educ 551 and 778.
3. Area of specialization: Complete 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 which lead to that certification.

Emotional 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 equivalent courses at the graduate level.
2. General exceptional education: Complete Communicative Disorders 567; Educ 556, 568, 704, 778; and
3. Area of specialization: Complete these courses, with an emphasis in emotional disabilities: Educ 564, 569, 781.

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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; and
3. Areas of specialization: Complete these courses, with an emphasis in learning disabilities: Educ 564, 569, 747, 781.

Cognitive Disabilities-Borderline

To receive certification, fulfill these requirements:

1. Professional education:
 - a. Complete your bachelor's degree in elementary or secondary ed, including these required courses: Educ 309 or 386; Educ 351, 381, 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; and
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 12-credit summer institutes and 5 credits over the regular school year. **Check with the School of Education Graduate Advising Office 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 possibly take some of the courses for variable credit (to be determined by your adviser). This will allow you to either specialize in one area or obtain equal coursework in each area.

Entrance Qualifications for Multicategorical Special Education

1. Be a certified teacher.
2. Be admitted to Graduate Studies.
3. Be provisionally certified in an area of special education.
4. Have a minimum of 3 credits (Educ 351/551).
5. Be able to commit to two consecutive summer programs for 9-12 credits each.

Course of Study

1. Summer I: 12 credits from Educ 556, 564, 568.
2. Semester I: Educ 781.
3. Semester II: Communicative Disorders 567 or 797.
4. Summer II: 12 credits from Educ 569, 704, 747, 778.

Graduate Certification Programs in Reading

You may complete these certifications as specializations in the MSE (General) degree via Option B or by enrolling as a graduate special student and pursuing certification only.

Reading Teacher (316) Certification

NOTE: You must have two years of successful *regular* classroom teaching experience in addition to the coursework for certification.

To receive certification you must earn 9 credits (6 from Area A and 3 from Area B) as described below. You can take them at the graduate or undergraduate level, but note that if you are applying the credits to a master's degree, they must be at the graduate level. Before you take Educ 741 you must take Educ 309, 310, 386/586, or English 381/581 (for English majors).

1. **Area A**, 6 credits: One course is required at both elementary and secondary levels.
 - a. Elementary: Educ 309 or 310.
 - b. Secondary: Educ 386/586 OR English 381/581.
2. **Area B**, 3 credits from Educ 327/527, 383/583, 706, English 275, 375/575.
3. Also earn 12 credits (plus any prerequisites) from Educ 741, 746, 747, 748.

Reading Specialist (317) Certification

You may complete 317 certification either as a specialization in the MSE (General) degree via Option B or by enrolling as a graduate special student and pursuing certification only. Meet the following requirements:

1. Complete a master's degree.
2. Meet the requirements for reading teacher (316) certification as outlined above.
3. Complete Educ 328/528, 749, 750, and 798.

Master of Science in Education: Guidance and Counseling

UW-Stevens Point cooperates with UW-Oshkosh in their degree program leading to guidance certification with one of three emphases.

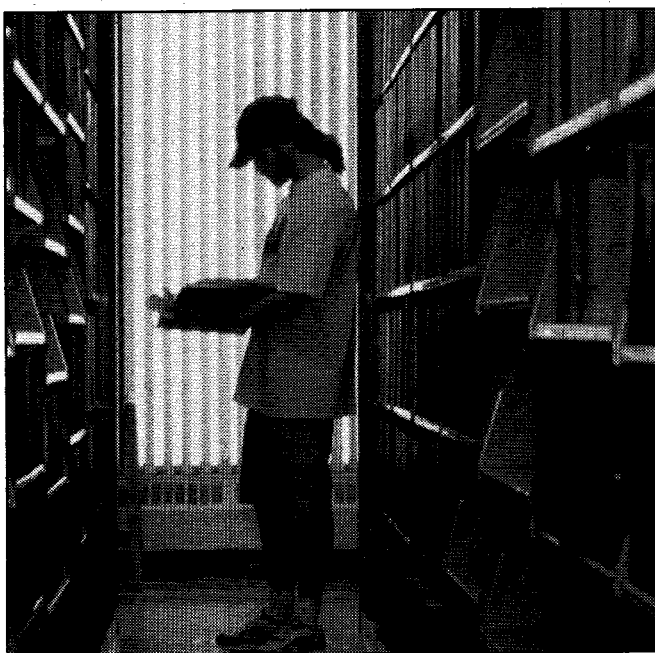
1. **Community counselor:** provides preparation for work in agencies, mental health institutes, county institutions, hospitals, industry, Job Service, and private practice.
2. **School counselor:** provides preparation for work in elementary, middle, or high school settings. You can also take an internship in school counseling if you do not have two years teaching experience.
3. **Student development:** provides preparation for work in post-secondary educational institutions.

You must meet admission criteria of the UW-Oshkosh Graduate School and the Counselor Education Program and apply for admission to candidacy BEFORE you complete 9 graduate credits. You will be assigned an adviser from UW-Oshkosh. Of the 48 credits required for the degree, 33 must be taken at UW-Oshkosh. Oshkosh courses will be offered at UW-Stevens Point as resources permit. For your culminating experience you may write a

thesis, seminar paper, or comprehensive examination or complete an academic integrative seminar. Contact the School of Education Graduate Advising Office for more information.

**Master of Science in Education:
Educational Administration -OR-
Specialist in Education:
Educational Administration**

These programs are offered in cooperation with UW-Superior. For more information, contact the School of Education Graduate Advising Office.



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. Successfully complete 18-24 credits in English courses selected with the approval of the graduate coordinator.
 - b. Successfully complete 6-9 credits in education courses.
 - c. With the approval of the graduate coordinator, 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. Successfully complete 15-18 credits in reading courses (up to 6 of them at the undergraduate level) including: Education 746, 747, 748; other courses approved by the graduate coordinator to total 15-18 credits.
 - b. Successfully complete 18-21 credits selected with the approval of the graduate coordinator.

Culminating Experience

Before you complete 21 credits, decide which of the four options you want to complete 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 coursework in English.

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History

Stephen P. Pistono, Graduate Coordinator
Room 430, College of Professional Studies Building
Phone: 715-346-4486
E-mail: spistono@uwsp.edu

You may earn a Master of Science in Teaching in history or in history with a concentration in the social sciences. You may also earn a Master of Science in Education (General) degree with a history concentration. In these programs you study specific historical periods or topics, acquire new information, learn the latest interpretations, and evaluate the latest methods of teaching the subject.

Admission to the Program

The History Department will admit you to its program if you:

1. Apply to Graduate Study,
2. Have an undergraduate major in history or social sciences,
3. Have earned a 2.75 cumulative GPA in your undergraduate work, and
4. Have earned a 3.00 GPA in your undergraduate major.
5. If you don't meet all these criteria, you may appeal to the History Department Graduate Committee for acceptance on probation.
6. Then complete a Program of Study form in consultation with your adviser, during the first semester you are in the graduate program.

Admission to Candidacy

After you have completed 12-15 credits of graduate work, have an evaluation meeting with your adviser. At that meeting, discuss your program, progress, and potential for success in completing your degree.

The Program

In consultation with your adviser, plan a program that best meets your professional needs. If you wish, you may specialize in a specific field of history.

1. **MST in history.** To earn your degree:
 - a. Achieve a 3.25 GPA in 30 credits of graduate coursework.
 - b. Earn at least 18 credits and no more than 24 in history, at least 12 of them at UW-Stevens Point. Earn at least 9 of these credits in courses numbered 700 and above and at least 6 of them at UW-Stevens Point.
 - c. Complete History 782 or 784 or 786. Do not concentrate all your work in any one area (e.g., American, European, or non-Western); earn at least 3 credits in a second area.
 - d. Earn 6-9 credits in 700 level education courses.
2. **MST in history with social science concentration.** Complete 30 graduate credits.
 - a. Earn 12 credits in history, at least 9 in courses numbered 700 and above and with at least a 3.25 GPA.
 - b. Earn 12 credits, with your adviser's approval, in one or more of the social sciences.
 - c. Earn 6 credits in 700 level education courses.
3. **MSE (General) with history concentration.** For full information on this degree, see the section in this chapter on **Education**. As part of the 21 credits toward this degree in your area of subject content or specialization, you may take history credits under the

professional option. Under the liberal arts option, you may take up to 21 credits in history.

After consulting with your education and history advisers, you determine your Program of Study in your area of specialization. Earn one-half of the credits in history courses numbered 700 and above. Also maintain at least a 3.25 GPA in history courses. If you wish to make exceptions to these history requirements, the history department chair, graduate committee, and graduate program coordinator must approve them.

Culminating Experience

You may either write a master's thesis for a maximum of 6 credits, or submit a research paper done for the Education Seminar.

The Thesis Option. If you choose to write the thesis, decide upon a topic in consultation with your adviser and then inform the graduate coordinator. After you submit the completed thesis, take an oral examination on it conducted by your thesis adviser and two other members of your department chosen by your adviser in consultation with you.

For you to pass this exam, your adviser and one other member of your committee must vote to approve both your thesis and your responses. You must then take a written comprehensive examination consisting of a 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 a 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.

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 & Community Resources and Nutritional Sciences

Cheryl Fedje, Graduate Coordinator in the School of Health Promotion and Human Development
 Room 224, College of Professional Studies Building
 Phone: 715-346-2096
 E-mail: cfedje@uwsp.edu

You may earn the Master of Science in Human and Community Resources or the Master of Science in Nutritional Sciences.

The Master of Science Degree in Human and Community Resources is designed to broaden your expertise in family and community resources, child and family studies, family and consumer education, or adult education. Each program is developed according to your individual needs and career goals.

The Master of Science Degree in Nutritional Sciences is designed to broaden your expertise in nutritional sciences or applied nutrition. Each program is developed according to your individual needs and career goals.

In both the human and community resources and nutritional sciences programs you have an opportunity for graduate teaching and research assistantships as well as for in-depth clinical/community practitioner experiences.

Abbreviations

FCE = Family and Consumer Education

FN = Food and Nutrition

HD = Human Development

Admission to the Program

For the *Human and Community Resources* program you need a bachelor's degree, but you must remove any deficiencies before applying for candidacy. The graduate faculty in your program area decides whether you may enter the program. If you have a cumulative undergraduate GPA less than 2.75, you may be admitted on probation for one semester. During that semester, you may take no more than 9 graduate credits and must earn a 3.00 GPA.

For admission to the *Nutritional Sciences* program, you need the following:

1. A bachelor's degree, but you must remove any deficiencies before applying for candidacy.
2. A 3.00 GPA.
3. Completion of the following courses or equivalent with a grade of C or better: Chemistry 105 and 106, 220, 260; Biology 101, 285, 333; FN 106 or 246, 253, 455, 457.
4. A letter of intent detailing your background qualifications, career goals, and how this program in nutritional sciences fits into your future professional plans. Applications for admission will be accepted twice a year: September 25 and February 1.

Admission to Candidacy

After you complete 9 credits of graduate work at UW-Stevens Point with a 3.00 GPA, you may apply for admission to candidacy. If your GPA is lower than 3.00, you will be placed on probation. If you then earn a 3.00 GPA on your next 9 credits, you will be admitted to candidacy. If you fail to maintain a cumulative GPA of 3.00, you will be dismissed from the program.

The Program—Human and Community Resources

1. Choose from one of three options: thesis option, project option, or examination option. In the thesis and project options, 30 graduate credits plus a defense of the thesis project are required. Thirty-two graduate credits and a written examination are required for the examination option. All three options require at least 15 credits numbered 700 and above.
2. **Thesis option:**
 - a. Core courses, 12-23 credits: HD 768, 782, 798, 799; FCE 789 or HD 764.
 - b. Options, 10-18 credits in one of the following:
 - 1) **Child and family studies:** HD 766 and other courses in human development, family and consumer education, and related fields to total 30 credits.
 - 2) **Family and consumer education:** FCE 790 or 791 and other courses in human development, family and consumer education, and related fields to total 30 credits.
 - 3) **Adult education:** FCE 590 and other courses in human development, family and consumer education and related fields to total 30 credits.
 - 4) **Family and community resources:** HD 760 and other courses in human development, family and consumer education, and related fields to total 30 credits.
3. **Project option:**
 - a. Core courses, 12-23 credits: HD 768, 782, 797, 798; FCE 789 or HD 764.
 - b. Options, 12-18 credits in one of the following:
 - 1) **Child and family studies:** HD 766 and other courses in human development, family and consumer education, and related fields to total 30 credits.
 - 2) **Family and consumer education:** FCE 790 or 791 and other courses in human development, family and consumer education, and related fields to total 30 credits.
 - 3) **Adult education:** FCE 590 and other courses in human development, family and consumer education, and related fields to total 30 credits.
 - 4) **Family and community resources:** HD 760 and other courses in human development, family and consumer education, and related fields to total 30 credits.
4. **Examination Option:**
 - a. Core courses, 12-23 credits: HD 768, 782, 797, 798; FCE 789 or HD 764.
 - b. Options, 12-18 credits in one of the following:
 - 1) **Child and family studies:** HD 766 and other courses in human development, family and consumer education, and related fields to total 32 credits.
 - 2) **Family and consumer education:** FCE 790 or 791 and other courses in human development, family and consumer education, and related fields to total 32 credits.

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- 3) **Adult education:** FCE 590 and other courses in human development, family and consumer education, and related fields to total 32 credits.
 - 4) **Family and community resources:** HD 760 and other courses in human development, family and consumer education, and related fields to total 32 credits.
- c. Satisfactorily pass a comprehensive exam that is not more than four hours in length within 90 days of finishing 32 credits of coursework. You may attempt the exam no more than twice.

You may take special topics courses and independent study courses in all of these areas. However, you may apply to your degree no more than 6 credits you earn in such courses.

The Program—Nutritional Sciences

Earn at least 30 credits at the graduate level, 15 of them in courses numbered 700 and above. Then take a comprehensive oral examination over your coursework and thesis.

1. Core courses: HD 798, FN 749, 753, 799.
2. Six credits outside the major area including Education 706 or Psychology 500 or Sociology 551 if you did not take a statistics course as an undergraduate.
3. Ten to 14 credits in food and nutrition and food systems management.

You may take special topics courses and independent study courses in all of these areas. However, you may apply to your degree no more than 6 credits you earn in such courses.



Music

Robert Kase, Graduate Coordinator
Room C-120, Fine Arts Center
Phone: 715-346-2229
E-mail: rkase@uwsp.edu

In the Music Department you may work toward the Master of Music Education degree with an emphasis in instrumental, vocal/choral, Suzuki talent education, jazz education, or studio pedagogy emphasis. In this program, you prepare for a full range of 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.

You may conduct and perform in a wide variety of vocal and instrumental ensembles. Through seminars and methods courses you gain a firm philosophical/technical career base. In the Suzuki talent education curriculum, you participate in the renowned Institute which brings several thousand students and teachers to the UW-Stevens Point campus each year.

Our regional computer network and instructional media center are valuable aids to both your research and your program development. The Center for Studies in Electronic Music Education provides facilities for combining computers, synthesizers, and the audiovisual media with classroom music activities.

Admission to the Program

To be considered for admission:

1. Submit a transcript of any undergraduate or graduate work you have taken at other institutions.
2. Have your past administrators, teaching colleagues, or college teachers in your major area send two letters of recommendation on your behalf.
3. If you wish to have an emphasis in instrumental, vocal/choral, or jazz, you must have state teacher certification. If your emphasis is Suzuki, certification is recommended but optional. If your emphasis is pedagogy, certification is optional.
4. Meet these requirements for certain emphases:
 - a. Instrumental, vocal/choral, jazz: an undergraduate degree in music education.
 - b. Suzuki talent education: an undergraduate degree in music education with teacher certification and a Suzuki-related performance area; OR gain admission by faculty evaluation, based on your performance area, music courses taken toward a related undergraduate degree, and significant involvement in Suzuki teaching. You may be required to take additional courses.
 - c. Studio pedagogy:
 - 1) Undergraduate degree in applied music or music education (teacher certification optional).
 - 2) Approval of faculty in your major area of performance. OR
 - 3) Admission by faculty evaluation, based on performance area, music courses taken toward a related undergraduate degree, and significant involvement in studio teaching and performance. You may be required to take additional courses.

Admission to Candidacy

To be admitted to candidacy:

1. Complete 9 credits with a grade of B or better.
2. Before you complete 15 credits, adopt a Program of Study, including projected courses, the topic of your culminating experience, and the selection of a graduate committee and project adviser, who is also chair of your committee.

The Program

To earn your degree, earn at least 30 graduate credits of which 10 must be in music education courses:

1. Major applied music, 4 credits; or 4 credits of music or general electives with the permission of your adviser, based on audition (vocal/choral, instrumental, jazz pedagogy majors only).
2. Music theory and applied creativity, 6 credits.
3. Music history/literature, 6 credits. (If you qualify, you may take Music 712, one other elective theory course, and 6 credits in music history/literature. If you have deficiencies, you will be counseled about what courses to take.)
4. Music education:
 - a. Instrumental, vocal/choral, jazz, Suzuki, 6 credits: Music Ed 786 and 787 (or 788-Suzuki; or 790-jazz)
 - b. Studio pedagogy, 5 credits: Music Ed 789 and Music 691.
5. Thesis option, 0-4 credits.
6. Electives, 4-9 credits. (See below.)

Culminating Experience

Option 1: Thesis, 4 credits; electives, 4 credits (studio pedagogy, 5 credits).

Option 2: Performance, methods and materials, 2 credits; electives, 6 credits (studio pedagogy, 7 credits).

Option 3: Seminar paper, 0 credit; electives, 8 credits (studio pedagogy, 9 credits); and comprehensive final examination.

No matter which option you choose, make an oral defense, demonstration or other presentation appropriate to the option before your committee. Select one of the three options in cooperation with the graduate coordinator and your project adviser. The options may include a wide variety of activities in research, performance, and teaching methodology.

Natural Resources

Christine Thomas, Graduate Coordinator
Room 265, College of Natural Resources Building
Phone: 715-346-4185
E-mail: cthomas@uwsp.edu

In the College of Natural Resources you may earn the Master of Science in Natural Resources, which encompasses forestry, forestry-recreation, urban forestry, wildlife, fisheries, limnology, resource management, extension programming, environmental education, international resource management, land use planning, soil science, aquatic toxicology, groundwater, watershed management, and water chemistry.

In the graduate program you have an opportunity for advanced study, research, and involvement in natural resource-related professional activities. We have designed all our programs to meet your individual needs and interests.

Admission to the Program

Complete both an application to Graduate Study and an application for the College of Natural Resources program and submit two letters of recommendation. The Graduate Record Examination is required. You also must have a 3.00 grade point average during your last two years as an undergraduate.

You do not need an undergraduate major in one of the natural resource specialties. However, you may have to take additional courses to make up deficiencies in your undergraduate curriculum. If you have an undergraduate major in social sciences or humanities, you have more deficiencies than someone with a major in the sciences. Graduate faculty in your area of interest admit you to the program. An adviser will be assigned to you when you are admitted.

The Program

1. You must earn at least 30 credits in graduate courses. At least 15 credits must be in courses numbered 700 and above.
2. You must take courses in at least four disciplines (e.g., forestry, wildlife, biology, and education).
3. Your graduate committee must consist of at least three members of the graduate faculty who represent at least two disciplines.
4. You must enroll for at least 3 thesis or independent study credits during each of your first four semesters.
5.
 - a. **Thesis option** (recommended for most students)
 - 1) Thesis: maximum of 6 credits count toward your 30 credit requirement; and
 - 2) Seminar: maximum of 4 credits in Natural Resources 794 and 795 count toward your 30 credit requirement.
 - b. **Nonthesis option** (available only with the approval of your graduate committee and adviser)
 - 1) Independent study, 3 credits: (library research, management plan, etc.); and
 - 2) Seminar: maximum of 4 credits of Natural Resources 794 and 795 count toward your 30 credit requirement.
 - c. **Nonthesis option for elementary and secondary teachers.** 39 credits and a comprehensive examination on the coursework. Check with the Wisconsin Center for Environmental Education for details on course requirements and dates the exam is provided.
6. Enroll in Natural Resources 794 every semester that you are not enrolled in Natural Resources 791 or 795. You may not substitute Natural Resources 791 for the seminar requirements.
7. Enroll in Natural Resources 796 or 799 each semester you are enrolled as a full-time student.

Culminating Experience

You must take a comprehensive final oral examination conducted by your graduate committee which includes questions on your thesis or seminar paper and on coursework.

Faculty and Staff

This listing includes faculty, academic staff, classified staff, and limited term and project employees. An asterisk (*) following the name indicates a part-time assignment. Appointments for summer, less than one semester, less than 3 credits, or less than 10 hours a week are not listed. The date indicates the beginning of service at the University of Wisconsin-Stevens Point.

HESA = Health, Exercise Science, and Athletics
 HPHD = Health Promotion and Human Development
 UW = University of Wisconsin
 (G) = graduate faculty member.

R. Anne Abbott, Prof of HPHD, 1987. BS, East Tennessee State U; MS, Florida State U; PhD, U of Pittsburgh. (G)

Katherine Anne Ackley, Prof of English, 1979. MA, Purdue U; BA, PhD, Ball State U. (G)

Richard C. Ackley, Asst Prof of Mathematics and Computing, 1967. BS, Western Michigan U; MA, U of Michigan, Ann Arbor. (G)

Terry L. Aittama*, Lect in HPHD, 1993. BS, UW-La Crosse; MPH, U of Michigan.

Katie Algeo, Asst Prof of Geography, 1997. BS, Duke U; PhD Louisiana State U.

Calvin Young Allen, Assoc Prof of Communication, 1969. BA, U of Evansville; MA, Ohio U. (G)

Gail Allen, Library Serv Asst Advanced, Instructional Materials Center Circulation Supervisor, 1975. BA, UW-Oshkosh.

Roxanne Allorie, Adviser in the Educational Support Prog, 1992. BS, UW-Stevens Point; MS, UW-Stout.

Jane Amdahl, Admin Prog Spec, Prog Asst 4 in the Office of Equity and Affirmative Action, 1986. AA, Rochester Junior College (Minn.).

Michael Amundson, Electronics Tech in Biology and College of Natural Resources, 1975. AA, Wis Indianhead Technical College.

Margaret N. Andersen*, Teacher, University Child Learning and Care Center, 1982. BS, UW-Stevens Point.

Eric M. Anderson, Assoc Prof and Coord of Wildlife, 1990. BS, Michigan State U; MS, PhD, Colorado State U. (G)

Judy Anderson*, Prog Asst in the School of Education, 1995.

Katherine J. Anderson, Asst Prof in the University Library, 1985. BA, MA, UW-Stevens Point; MLS, UW-Madison.

Martha L. Anderson, Senior Lect in Mathematics and Computing, 1987. BS, UW-Oshkosh; MA, U of Kansas.

Shelley J. Anderson*, Senior Graphic Designer in Campus Printing and Design, 1990.

Colleen Andrews, Senior Info Processing Consultant in Info Technology, 1986. BA, Dominican College (UW-Parkside).

Colleen A. Angel, Library Serv Asst Advanced, 1980. BS, UW-Stevens Point; MLIS, UW-Milwaukee.

Ernest Anthes, Senior Info Processing Consultant in Academic Computing, 1989. BSEE, Marquette U.

Arne Arneson, Assoc Prof, Dir of University Library, Dir of Teaching-Learning Resources, 1987. BM, MM, MA, UW-Madison. (G)

James Arrowood, Prof of Music, Dir of Bands, 1990. BA, Wake Forest U; MA, Radford U. (G)

Fidelis B. Asuquo, Custodian 2 Academic, 1984.

Darrell Austreng, Custodian 2 Academic, 1990.

Judy A. Babilitch*, Assoc Lect in Sociology, 1984. BA, Beloit College; MSW, U of Illinois, Chicago.

Robert C. Badger, Prof of Chemistry, 1984. BS, Ohio U; PhD, U of Toledo. (G)

Dirk Bahle*, Assoc Instructional Spec for Info Technology, 1998.

Kevin M. Bahr, Asst Prof of Business and Economics, 1999.

Mary Ann Baird, Prof of Interior Architecture, 1962. BS, UW-Stout; MST, UW-Stevens Point.

Ronald Baker*, Nurse Clinician 3 in Health Serv, 1995. BS, UW-Stevens Point; BSN, MSN, UW-Oshkosh.

Robert F. Balas, Prof of Communicative Disorders, 1976. AB, Valparaiso U; MA, Northern Illinois U; PhD, U of Denver. (G)

Joseph Baldarotta, Head Hockey Coach, Assoc Lect in HESA, 1991. BS, UW-Stevens Point.

Mark G. Balhorn, Assoc Prof of English, 1992. BA, Michigan State U; MA, U of Kansas; PhD, UW-Madison. (G)

Larry F. Ball, Assoc Prof of Art, 1991. BA, Oberlin College; PhD, U of Virginia. (G)

Sheila Bannister-Gross, Prog Asst 2 in UWSP Extension-Credit Outreach, 1987. BS, UW-Stevens Point.

Jesse J. Barker, Assoc Lect of Spanish, 1998. BA, Ithaca College; MA, Tulane U.

Richard J. Barker, Assoc Prof of Spanish, 1988. BA, Hamilton College; MA, U of Iowa; PhD, U of Oregon. (G)

Terese Marie Barta, Asst Prof of Biology, 1997. BS, PhD, UW-Madison; MS, U of California-Riverside. (G)

Barbara A. Bartkowiak, Prog Asst 1 in Music, 1981.

Gregory P. Bauer, Distinguished Psychologist, 1988. BS, UW-Stevens Point; MS, PhD, Oklahoma State U. (G)

Nancy E. Bayne, Interim Dir of Equity and Affirmative Action, Prof of Psychology, 1975. BS, MS, PhD, Iowa State U of Science and Technology. (G)

Kirstin E. Beach, Instr of Communicative Disorders, 1999.

Larry Beck, Dir of Facility Serv, 1990. BS, Purdue U; MBA, U of Chicago.

Kimberly Becken, Prog Asst 2 in the Biology Dept, 1990. BS, UW-Stevens Point.

David C. Becker, Instructional Spec in Suzuki, 1994. BM, UW-Madison; MM, The Juilliard School.

Pamela Becker, Academic Adviser; Disabilities Serv Adviser in the Student Academic Advising Center, 1983. BA, UW-Stevens Point.

Patti Clayton Becker, Assoc Prof in the University Library, 1993. BS, UW-Stevens Point; MS, Columbia U; MA, Drew U.

John Bedard, Custodian 2 Academic.

Margaret Beeber, Senior Advising Coord in the School of Education, 1989. BS, UW-Stevens Point.

Robert B. Beeken, Assoc Vice Chancellor for Personnel and Budget, Prof of Physics and Astronomy, 1980. BA, Western State College of Colorado; MS, Ohio U; PhD, The U of Iowa. (G)

Sue Beeken, Financial Spec 1 in the Point Card Office, 1998. BS, Western State College.

Richard H. Behm, Prof of English, 1976. BA, U of Saint Thomas; MFA, PhD, Bowling Green State U. (G)

Robert A. Bell, Assoc Prof of Biology and Water Resources, Chair of Biology, 1993. BA, Drake U; MS, Illinois State U; PhD, Arizona State U. (G)

Christopher A. Beloin*, Assoc Lect in Business and Economics, Interior Architecture, 1996. BA, Silver Lake College; MBA, Cardinal Stritch U; MSE, Concordia U (Wisconsin).

Holly L. Bembek, Dir of Conference and Reservations, 1976. BS, BA, UW-Stevens Point.

Dan Bemowski, Electronics Tech 2 in Info Technology.

Ismael (Roy) Benavides, Custodian 2 Academic, 1971.

Barb Bengsch*, Financial Spec 2 in Accounts Receivable, 1982.

John J. (Jack) Bennett Jr., Head Basketball Coach and Lect in HESA, 1996. BA, Ripon College; MEPD, UW-Stevens Point.

Julie Benson, Prog Asst 1, Records Clerk in Registration and Records, 1986. BS, UW-Stevens Point.

Daniel Berger, Info Systems Technical Professional Senior in Info Technology, 1994. BS, UW-Stevens Point.

Brant Bergeron, Dir of Alumni Relations, 1990. BS, UW-Stevens Point.

John I. Betinis, University Physician and Assoc Dir of Health Serv; Adjunct Prof of HPHD, 1977. BA, MD, U of Southern California; MPH, U of California, Berkeley. (G)

Hawthorne Beyer, Info Processing Consultant, College Technology Support Spec, 1998. BS, U of Nottingham, England.

Karyn L. Biasca, Assoc Prof of Paper Science, 1989. BS, U of California, Los Angeles; MS, PhD, Institute of Paper Chemistry. (G)

Paul Biersack, Craftworker Supervisor in Facility Serv, 1984.

John J. Birrenkott, Asst to the Asst Chancellor for Student Affairs, 1976. BS, UW-Stevens Point; MBA, UW-Oshkosh.

Pat Birrenkott*, Student Status Examimer in Registration and Records, 1994.

E. Sherwood Bishop, Prof of Sociology, 1972. BA, Lakeland College; MA, UW-Milwaukee; PhD, Florida State U. (G)

Steven A. Bjella, Assoc Prof of Music, 1991. BM, MA, U of Iowa. (G)

Joyce A. Blader, Security Officer 4, Crime Prevention Officer, 1977. BS, UW-Stevens Point.

Jerry D. Blanche, Dir of University Relations, 1999.

200 Faculty and Staff

- Patricia Ann Bloom**, Senior Lect in English, 1968. BA, MA, Ohio U.
- Thomas K. Bloom**, Assoc Prof of English, 1968. AB, MA, PhD, Ohio U. (G)
- Marne Boario**, Financial Spec in Accounts Payable.
- Julie Bodzislaw**, Prog Asst 4, Data Manager in Office of the Dean of the College of Professional Studies, 1965.
- Alan G. Boelk**, Head Men's and Women's Swimming Coach, Assoc Lect in HESA, 1997.
- Carol Bolton**, Prog Asst 2 in Safety and Loss Control, 1993.
- Judith W. Bond**, Asst Prof of Music, Coord of Music Education, 1994. BA, Grinnell College; MA, U of Minnesota. (G)
- Norman A. Bond**, Info Processing Consultant, College Technology Support Spec, 1998. BS, West Virginia U; MS, Southern Illinois U at Carbondale.
- Stephen R. Bondeson**, Prof of Chemistry, 1980. BS, UW-Stevens Point; PhD, Duke U. (G)
- Barbara Borski**, Prog Asst 2 for UW Extension in the College of Natural Resources, 1966.
- Janis J. Borski**, Prog Asst 3 in Health Serv, 1972.
- Mary R. Bowman**, Asst Prof of English, 1998. BA, College of William and Mary; MA, PhD, Duke U. (G)
- Mark S. Boyce**, Vallier Chair of Ecology and Wisconsin Distinguished Prof, 1993. BS, Iowa State U; MS, U of Alaska; MPhil, PhD, Yale U. (G) (on leave)
- Amy Jo Boyd***, Licensed Practical Nurse 2 in Health Serv, 1997.
- Dale E. Boyd**, Academic Custodial Supervisor 2, 1983.
- Sally A. Boyd**, Custodian 2 Academic, 1979.
- Michael Bozek**, Acting Leader, Wis Cooperative Fishery Research Unit, 1994. BS, UW-Stevens Point; MS, U of Nevada-Las Vegas; PhD, U of Wyoming (G)
- Peter Brandl**, Painter, 1991.
- Thomas Brandl**, Painter, 1996.
- Daniel Breining**, Instr of Foreign Languages, 1999.
- Jutta Brendel***, Instr in the English as a Second Language Prog.
- Kathy Breseman**, DAC in Military Science.
- Susan A. Brewer**, Assoc 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 2, 1998. BS, UW-Stevens Point.
- Jennifer Brindley**, Prog Asst 1 in the School of Education/Gifted and Talented Prog, 1998.
- Charles R. Brinkley**, Guest Artist in Theatre and Dance, 1999.
- Pamela Brooks***, Academic Adviser in the Student Academic Advising Center, 1996. BA, MA, U of Washington.
- Bryan Brophy-Baermann**, Asst Prof of Political Science; Assoc Lect in Communication, 1997. BA, PhD, U of Iowa.
- Michelle Brophy-Baermann**, Asst Prof of Political Science; Assoc Lect in Communication, 1997. BA, PhD, U of Iowa.
- Michael R. Brown**, Chemical Lab Tech Senior in Chemistry, 1992. BS, UW-Milwaukee.
- Thomas Brown***, Assoc Lect in Interior Architecture, 1999. BArch, UW-Milwaukee.
- Bryant Browne**, Assoc Prof of Natural Resources, 1993. BA, Boston College; BS, U of Massachusetts; MS, U of California-Berkeley; PhD, Syracuse U. (G)
- Stanford A. Brubaker***, Assoc Lect in HPHD, 1999.
- James G. Brummer**, Prof of Chemistry, 1985. BS, U of California, Davis; MS, U of Montana; PhD, Washington State U.
- Dale Bruni**, Maintenance Supervisor 3.
- Eleanor Brush**, Clinical Prof of Communicative Disorders, Dir of Clinical Serv, 1989. BA, U of Massachusetts at Amherst; MA, Mount Holyoke College. (G)
- Robert O. Brush**, Assoc Prof of Forestry, 1989. BS, MLA, PhD, U of Massachusetts at Amherst. (G)
- Thomas J. Buchholz**, Prof of English, 1970. BS, UW-Oshkosh; MA, UW-Milwaukee; PhD, UW-Madison. (G)
- Mathew Buchman**, Assoc Lect in Music, 1996. BM, Lawrence U.
- Mary Jo Buggs**, Asst Prof of English, 1966. BS, MST, UW-Stevens Point.
- Joyce Buigrin***, Senior Lect in Medical Technology, 1990. BS, UW-Eau Claire; MSA, Central Michigan U.
- Roger A. Bullis**, Prof of Communication, 1971. BA, MA, PhD, UW-Madison. (G)
- Thomas A. Burkart**, Offset Press Operator 2 in Campus Printing and Design. AD, Mid-State Technical College, 1987.
- Donald P. Burling**, Chief, Campus Security and Police in Protective Serv, 1972. AD, Madison Business College; AD, Mid-State Technical College.
- Jane A. Burroughs**, Prog Asst 1 in Political Science, 1966.
- Kathleen T. Buss**, Prof of Education, 1982. BS, The Ohio State U; MEd, PhD, Georgia State U. (G)
- Glory Bussian**, Custodian 2 Academic, 1983.
- Barbara Y. Butler**, Asst Prof of Anthropology, 1992. BA, Mount Holyoke College; MSSW, UW-Madison; PhD, U of Rochester. (G)
- Timothy P. Byers**, Outreach Prog Manager I in UWSP Extension-Credit Outreach and Wis Center for Environmental Education; 1996. BS, MS, UW-Stevens Point.
- Diane Canfield Bywaters**, Prof of Art, 1987. BFA, U of Kansas; MFA, Washington U, St. Louis. (G)
- James Lewis Canfield**, Prof of Political Science, 1969. AB, Albion College; MA, PhD, U of Michigan, Ann Arbor. (G)
- Diane A. Caporale-Hartleb**, Asst Prof of Biology, 1999. BA, U of Vermont; MAT, PhD, U of New Hampshire.
- Ann D. Carlson***, Asst Prof of Mathematics and Computing, 1965. BS, UW-Whitewater; MA, U of Northern Iowa.
- Kendra Carlson**, Research Tech in the College of Natural Resources.
- Stanley L. Carlson**, Prof of Mathematics, 1965. BS, UW-River Falls; MA, U of Northern Iowa; EdD, U of Northern Colorado. (G)
- Ginny Carlton***, Assoc Admin Spec for the Wis Environmental Education Board in the Wis Center for Environmental Education, 1993. BS, State U of New York College of Environmental Science and Forestry; MS, UW-Stevens Point.
- Patricia Caro**, Assoc Prof of Education, 1990. BEd, MEd, PhD, McGill U (Montreal); EdS, U of Virginia. (G)
- Donna Carpenter**, Circulation Librarian, 1964. BS, UW-Stevens Point.
- James A. Carpenter***, Lect in Music, 1999.
- James K. Carter**, Assoc Prof of Mathematics and Computing, 1985. BA, Ohio Northern U; MBA, U of Toledo.
- Alfredo Casas**, Motor Vehicle Operator Light in Facility Serv for Recycling, 1997.
- Anita Cash**, Prog Asst 2 in Office of Field Experiences and Dean's Office of the College of Professional Studies, 1993.
- Mark Cates**, Emeritus Prof of Political Science, 1963. AB, MA, PhD, Indiana U.
- Julie Cayo**, Prog Asst 1, Asst to the Chair and Faculty in Business and Economics, 1984. BA, UW-Eau Claire.
- Kristle F. Cecil***, Assoc Lect in Art and Design, 1998. BA, Marshall U; MA, Miami U.
- Randall J. Champeau**, Prof of Environmental Education and Resource Management, Dir of the Wis Center for Environmental Education, 1984. BS, MS, UW-Stevens Point; PhD, Michigan State U. (G)
- Lionel Chan***, Admin Asst in the Central Wis Economic Research Bureau, 1999.
- Jagdish Chander**, Prof of Physics and Astronomy, 1966. BSc, BA, DAV College Jalandhar (Pb.), Panjab U; MSc, Birla Institute of Technology and Science, Pilani; Dr. rer. nat., Friedrich Alexander U, Erlangen-Nuremberg. (G)
- Jyotsna Chander**, Senior Lect in Mathematics, 1968. BA, HMV College, Jalandhar City; MA, DAV College, Panjab U, Jalandhar City; MEPD, UW-Stevens Point.
- Therese Chang**, Financial Spec 4 in Gift and Grant Accounting, 1986. BS, U of Hawaii.
- Theresa M.F. Chao**, Asst Prof in the University Library, 1971. BA, National Chengchi U; MLS, U of Oklahoma; MSM, Cardinal Stritch College.
- Kenneth J. Chase**, Electronics Tech and Elevator Maintenance, 1977. BS, UW-Eau Claire.
- LeAnn M.L. Chase***, Assoc Lect in Education, 1998.
- Judy A. Chesebro**, Prog Asst 1 in Career Serv, 1968.
- David P. Chitharanjan**, Prof of Chemistry and Medical Technology, 1968. BS (Hons), MSc, Annamalai U, Madras, India; PhD, Wayne State U. (G)

- Jasia (Jayne) Chitharanjan***, Asst Prof of HPHD, 1998. BS, MS, UW-Stevens Point.
- Mary Chmiel**, Assoc University Relations Spec for University Relations, 1997. BS, UW-Stevens Point.
- Donna Christensen**, Clinical Asst Prof of Communicative Disorders, 1987. BS, UW-Madison; MA, Western Michigan U. (G)
- Ralph Christensen***, Lect in the College of Natural Resources, 1998.
- Dale N. Christiansen**, Custodian 2 Academic, 1980.
- Jay Christianson**, Macintosh Support Spec, Multimedia Hardware Support Spec in Info Technology, 1994. BA, UW-Stevens Point.
- Darrell A. Christie**, Assoc Prof of Economics, 1964. BS, Jamestown College; MS, U of Illinois at Urbana-Champaign.
- Richard D. Christofferson, Sr.**, Prof of Political Science, 1970. BS, Black Hills State U; MA, PhD, Purdue U.
- Dennis D. Church**, Plumber for Residential Living, 1991.
- Marie Cincera**, Prog Asst 3, Head Cashier in University Bookstore, 1969.
- Karen R. Cisewski**, Prog Asst 2, Dept Secretary in Mathematics and Computing, 1976.
- Kenneth R. Cisewski**, Custodian 2 Academic, 1979.
- Sarah J. (Sally) Clanton**, Dir of News Serv, 1977. BS, MA, UW-Stevens Point.
- Bonnie Clark***, Financial Spec Supervisor 3 in the College of Natural Resources, 1969.
- Charles E. Clark**, Exec Asst to the Chancellor, Lect in History, 1993. BA, Moorhead State U; MA, U of Kansas; PhD, U of Illinois at Urbana-Champaign.
- Eugene J. Clark**, Prof of Sociology, 1968. BA, U of Montana; MS, Montana State U; PhD, Louisiana State U. (G)
- Sharon S. Cloud**, Dir of the Native American Center, 1979. BS, UW-La Crosse; MSE, UW-Stevens Point.
- Laura J. Cole**, Asst Prof of Chemistry, 1995. BA, Albion College; PhD, U of Florida.
- Wm. John Coletta**, Assoc Prof of English, Environmental Studies Coord, Scientific and Technical Writing Coord, 1990. BS, State U of New York College at Cortland; MS, George Williams College; MA, U of Alaska-Anchorage; PhD, U of Oregon. (G)
- Douglas H. Collier**, Asst Prof of HESA, 1998. BA, MA, McGill U; PhD, Indiana U. (G)
- Joan M. Collins***, Prog Asst 2 in the College of Natural Resources, 1991.
- Sharon Combel***, Prog Asst 2 in Parking Serv, 1983.
- James E. Cook**, Prof of Forestry, 1988. BSF, Stephen F. Austin State U; MSF, Northern Arizona U; PhD, Virginia Polytechnic Institute and State U. (G)
- Perry A. Cook**, Asst Prof of Education, 1994. BS, UW-Stevens Point; PhD, UW-Madison. (G)
- Andrea Cool***, Assoc Lect in English, 1995. BA, UW-Platteville; MA, U of Missouri-Columbia.
- Sheldon J. Cooper**, Asst Prof of Biology, 1998. BS, Northern State U; MA, U of South Dakota; PhD, Utah State U. (G)
- Cheryl Copps**, Receptionist in the Counseling Center, 1998.
- Barbara Corgiat**, Women's Health Nurse Practitioner in Health Serv, 1995.
- Carolee A. Cote**, Prog Asst 2, Dept Secretary in Philosophy, 1981.
- David Coulthurst***, Assoc Lect in Communication, 1997. BS, UW-Stevens Point.
- Susan Cox**, Prog Asst 2, Office Manager in UWSP Extension-Outreach Education, 1984.
- Renee Craig-Odders**, Asst Prof of Spanish, 1994. BA, MA, UW-Milwaukee; PhD, Northwestern U. (G)
- Virginia B. Crandell**, Publications Editor 1 in News Serv, Editor of *Sundial* and *Message of the Day*, 1981.
- Patricia Ann Cray***, Library Serv Asst Senior, 1988. BA, California State U-Chico.
- Randy F. Cray**, Prof and Chair of the Division of Business and Economics, Dir of Central Wis Economic Research Bureau, 1986. BS, MA, MBA, Ball State U; PhD, Kansas State U. (G)
- Susan Crotteau**, Asst Dir of University Centers Admin, 1988. BS, UW-Stout.
- Richard Crowther**, Assoc Prof of Biology, 1986. BS, Sul Ross State U; MS, U of Texas at El Paso; PhD, New Mexico State U. (G)
- Debra Crunkilton***, Assoc Lect in Natural Resources, 1990. BS, MPA, PhD, U of Missouri-Columbia.
- Ronald Crunkilton**, Assoc Prof of Water Resources, 1990. BS, MS, Ohio State U; PhD, U of Missouri-Columbia. (G)
- Michelle Cuestas**, Custodian 2 Academic, 1996.
- Gary D. Cumley**, Asst Prof of Communicative Disorders, 1994. BS, Colorado State U; MS, U of Oregon; PhD, U of Nebraska-Lincoln. (G)
- David W. Cummings**, Security Officer 4, Student Patrol Coord in Protective Serv, 1989. BS, Hawthorne College.
- Alexandra Curless**, Prog Asst 2 for Upward Bound, 1977.
- John D. Curtis**, Prof of Biology, 1976. BS, Western Illinois U; MS, The Ohio State U; PhD, Iowa State U of Science and Technology. (G)
- Mark Cycosz**, Senior Info Processing Consultant in Admin Info Systems, 1987. BS, UW-Stevens Point.
- Kevin Czerwinski**, Asst Prof of Chemistry, 1995. BS, UW-Stevens Point; PhD, UW-Milwaukee.
- Robert Dall, Jr.**, Prog Coord at Treehaven, Lect in Environmental Education, 1990. BS, UW-Stevens Point.
- Karen Danczyk***, Prog Asst 1 in Registration and Records, 1979.
- Gretchen d'Armand**, Assoc Prof of Music, 1984. BM, Northwestern U; MM, UW-Madison. (G)
- Matthew Daubert**, Info Systems Technical Professional Intermediate in Admin Info Systems, 1996.
- Beverley David**, Lect in French, Dept of Foreign Languages, 1991. BA, U of Guyana; MA, U of British Columbia; Diploma in French Translation, U of British Columbia.
- Clive A. David**, Prof of Forestry, 1989. BScF, U of New Brunswick; PhD, U of British Columbia. (G)
- Tammi David**, Accountant-Journey, Asst to the Controller in General Ledger Accounting, 1995. BA, UW-Stevens Point.
- William C. Davidson**, Prof of Communication, 1968. BA, Goshen College; MA, PhD, The U of Kansas. (G)
- Mary A. Day**, Clinical Assoc Prof of Communicative Disorders, 1983. BA, College of St. Teresa; MS, UW-Madison.
- Kevin Deates**, Asst Football Coach, Assoc Lect in HESA, 1999.
- Leslie Midkiff DeBauche**, Prof of Communication, 1987. BA, MA, U of Iowa; PhD, UW-Madison. (G)
- Dorothy R. DeBoer**, Instr of Sociology, 1999.
- Kristy DeBolt**, Prog Asst 2 in Psychology, 1986. BS, UW-Stevens Point.
- Michael DeBot***, Asst Postmaster in Info Technology.
- Donna Decker**, Assoc Prof of English, Dir of UWSP Writers' Workshop, 1990. BA, City U of New York College of Staten Island; MA, City U of New York City College; PhD, Florida State U. (G)
- Denise Deering**, Senior Television Artist/Set Designer in University Telecommunications, 1981. BS, UW-Stevens Point.
- William A. Deering**, Assoc Prof of Communication, 1992. BA, Central Missouri State U; MA, Webster U; PhD, U of Missouri-Columbia. (G)
- Paula R. DeHart**, Assoc Prof of Education, 1994. BS, UW-Stevens Point; MS, PhD, UW-Madison.
- Priscilla Dehlinger**, Prog Asst 2 in Campus Activities, 1968.
- Jackie DeKay**, Payroll and Benefits Spec 3-Confidential in Personnel, 1970.
- Enilda Delgado***, Assoc Lect in Sociology, 1998.
- Eugene Delisio***, Student Serv Coord in Communication, 1996. BA, UW-Milwaukee; MA, UW-Stevens Point.
- Corrine G. Dempsey**, Asst Prof of Philosophy, 1999.
- Min Deng**, Assoc Prof of Mathematics and Computing, 1992. BS, MS, China U of Science and Technology; MS, U of Pittsburgh; PhD, Pennsylvania State U. (G)
- Patricia M. D'Ercole**, Senior Suzuki Spec and Suzuki Teacher Trainer, American Suzuki Talent Education Center, 1984. BME, Rosary College; MME, UW-Stevens Point. (G)
- Sonja S. Derkez**, Prog Asst 4 Confidential in Academic Affairs, 1976.
- Donna M. Desforges**, Assoc Prof of Psychology, 1991. BA, U of Houston; MS, PhD, Texas Christian U. (G)
- Thomas Detwyler**, Prof of Geography, 1981. BS, U of Michigan, Ann Arbor; PhD, The Johns Hopkins U. (G)
- William M. DeVita**, Trace Organic Lab Manager for Environmental Task Force Prog, 1988. BS, MS, UW-Stevens Point.
- Jennifer Dewitt**, Clerical Asst 2 in Admissions, 1997.
- Jean DiCicco**, Financial Spec 3; Asst Bursar, 1985.
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- Sarah Radtke***, Assoc Student Serv Spec in HESA, 1998.
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Academic/Administrative Bldgs

- 1 Old Main
- 2 Student Services Center
- 3 Communication Arts Center
- 4 American Suzuki Center
- 5 Health Enhancement Center
- 5 Box Office, Quandt/Berg Gyms
- 6 Science Building
- 7 Collins Classroom Center
- 8 Learning Resources Center
- 9 Fine Arts Center
- 10 Nelson Hall
- 11 College of Professional Studies
- 12 College of Natural Resources
- 21 Wood Utilization Lab
- 61 Dezell Hall

Service Buildings

- 14 Phy Ed Service
- 16 Phy Ed Storage
- 18 Schmeckle Shelter
- 25 George Stien Building
- 26 Maintenance Shop/Upholstery
- 31 Maintenance/Material Building
- 45 601 North Division Street

Centers

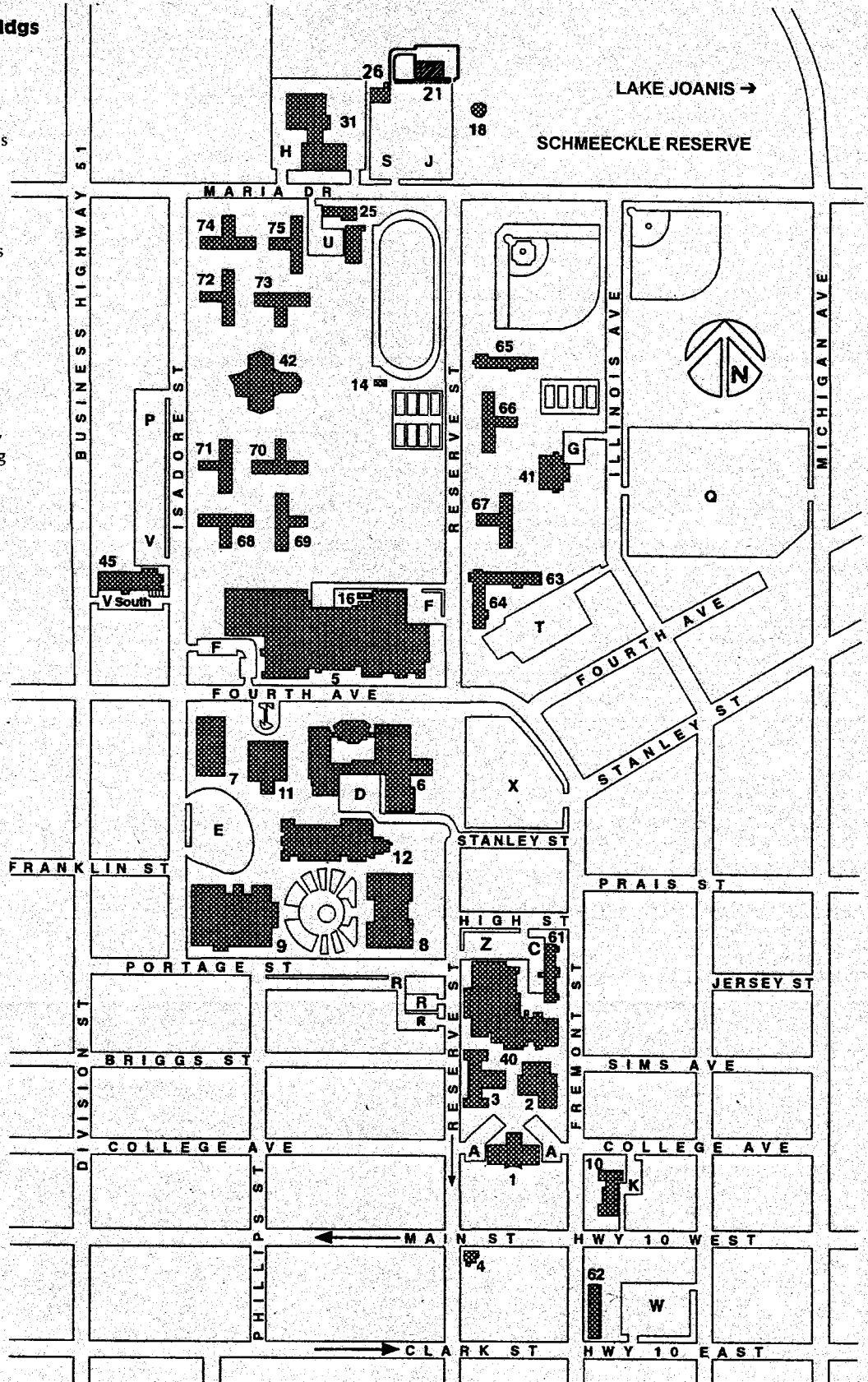
- 40 University Center
- 41 Allen Residence Center
- 42 DeBot Residence Center

Residence Halls

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

Parking Lots

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





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