

# UNIVERSITY OF WISCONSIN-STEVENSON POINT



**Undergraduate Catalog  
1991-1993**

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# University of Wisconsin-Stevens Point Undergraduate Catalog, 1991-93

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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1991-93 Undergraduate Catalog  
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## The Iris

The iris has been one of the important symbols of the University of Wisconsin-Stevens Point since its days as a State Normal School. In 1907, one year after the yearbook was *The Iris*, a salutation in the publication stated: "In Greek mythology, Iris is represented as a beautiful virgin diety with golden wings, and clothed in purple raiment. She was the messenger of the gods, who conveyed divine commands to mankind. . . . When man beheld her splendid colors (the same as the colors of this school) he rejoiced, for it was symbolic of divine favor."

The cover of this catalog is printed on recycled paper.

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# 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 306 students. Since then, we have undergone several name changes, while expanding our programs and attracting more students. We are now one of the 13 units of the University of Wisconsin System. With approximately 8,500 undergraduate and graduate students, we are large enough to offer a diversity of programs, yet small enough to offer students individualized educational experiences. Nearly 80 percent of our 400-plus full-time faculty members have doctorate or equivalent degrees.

Students attend classes in seven major buildings in a six square block area. The College of Natural Resources Building, home of one of the nation's largest undergraduate natural resources programs, displays a massive computer-generated mosaic mural, the largest artwork of its kind. Old Main and the University Center lie south of the classroom buildings, and the residence halls lie north of the classroom buildings. Just north of the residence halls is Schmeekle Reserve, a 195-acre nature area with a 24-acre lake, a nature center, and several hiking and cross-country skiing trails.

## 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.

1. Providing baccalaureate degree level and selected graduate programs within the context of its approved select mission.
2. Meeting the educational personal development needs of students through effective teaching, academic advising, and counseling, and through university-sponsored cultural, recreational, and extracurricular programs.
3. Providing a first priority emphasis on teaching excellence.
4. Providing a base of liberal studies needed as the foundation for university degrees in the arts, letters and sciences, as well as for specialized professional and occupational degrees at the baccalaureate level.

5. Providing a program of preprofessional curricular offerings consistent with the university's mission to serve the needs of citizens in its geographical area.
6. Supporting a commitment to scholarly activity integral to and supportive of instructional programs and teaching excellence.
7. Meeting the off-campus instructional and continuing education needs of citizens in the campus service region and (as appropriate to unique program capability) in the state within the context of coordinated statewide planning of outreach programs.
8. Providing public service to the surrounding region both as a cultural center and a source of problem-solving expertise.
9. Participating in regional consortia and interinstitutional relationships in order to maximize educational opportunity for the people of the region effectively and efficiently through the sharing of resources.
10. Supporting a commitment to serving the special needs of minority, disadvantaged and nontraditional students.

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

- Provide a broad foundation of liberal studies and selected degree programs in the fine arts, humanities, natural sciences, and social sciences, imparting the heritage of human civilization, critical intelligence, and the skills necessary for a lifetime of learning and upon which education in the professional fields may be built.
- Provide undergraduate professional programs in communicative disorders, teacher education, home economics, the visual and performing arts, paper science, and natural resources with emphasis on the management of resources.
- Provide graduate programs in teacher education, communicative disorders, natural resources, home economics, communication and other select areas clearly associated with this university's undergraduate emphases and strengths.
- 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 Stevens Point Community

Stevens Point is in the heart of Wisconsin. Incorporated in 1858, it is the government seat of Portage County.

Known as the "Gateway to the Pinerias," it was for many years the supply point for the lumbering industry in the pine forests which stretch north of the city. Sawmills and later papermills were the economic base of the community.

Today Stevens Point is a city of about 25,000 in a metropolitan area of nearly 60,000 and is the "Gateway to Wisconsin's Vacationland." The international headquarters of Sentry Insurance gives Stevens Point a cosmopolitan flavor which is unusual for a Midwestern city of its size.

In its picturesque setting on the banks of the Wisconsin River, Stevens Point offers a wide range of recreational opportunities, including 34 city and county parks, the historic Market Square, and the CenterPoint Mall.

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



Keith R. Sanders

## Administration

Keith R. Sanders, Chancellor

H. Howard Thoyre, Vice Chancellor for Academic Affairs

Gregory M. Diemer, Assistant Chancellor for Business Affairs

William H. Meyer, Acting Assistant Chancellor for Student Life

Helen R. Godfrey, Assistant Chancellor for University Relations

James L. Schurter, Dean of Academic Support Programs and Information Technology

David J. Staszak, Dean of Graduate Studies

Gerard McKenna, Dean of the College of Fine Arts and Communication

Justus F. Paul, Dean of the College of Letters and Science

Alan Haney, Dean of the College of Natural Resources

Joan North, Dean of the College of Professional Studies

## Admissions

At UW-Stevens Point you can attain a fuller and more mature understanding of the world, and so prepare to live a purposeful and productive life as a responsible member of society. The scope of human knowledge is so immense that you cannot survey it systematically in four years of formal education. However, at UW-Stevens Point you can continue the lifelong pursuit of knowledge and understanding, a crucial process for an educated individual.

Specifically, as you become an educated person at UW-Stevens Point you can reach five important goals:

1. To acquire proficiency in oral and written communication and nonverbal symbol systems.
2. To learn to think critically and to understand the ways in which to acquire knowledge, advance it, and bring it to bear on problems.
3. To acquire sufficient knowledge of human behavior and of our own and other cultures to understand issues in the development of civilizations, appreciate the intellectual and aesthetic contributions of civilizations, and achieve a perspective on problems in the contemporary world.
4. To acquire the knowledge and the skills of mental and physical health to enhance both your longevity and your effectiveness.
5. To achieve competence in at least one specific field of study.

To help you reach these goals, we emphasize liberal arts and general education studies.

### 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 students. 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 Affirmative Action Office, Room 210, Main Building, or phone (715) 346-2002.

If you are disabled, 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 Disabled Student Services Office, Room 103, Student Services Center, (715) 346-3361. You may also call on them for help with counseling, housing, academic advising, and tutoring. We urge you to call 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.

**Entrance Requirements**

Entrance requirements for new freshmen for the 1991-92 school year are as follows:

1. Graduate from a recognized high school or its equivalent. Your high school is recognized if (a) it is operated by a public school district, (b) it is a private school that is accredited by a federally approved accreditation association, or (c) it is a private school that is not accredited but is recognized by the UW System because of its performance. If you did not graduate from a recognized high school, you must show proof that you have a high school equivalency certificate that is based on the GED examination, the Wisconsin High School Equivalency Examination or other established criteria.
2. Complete a minimum of 16 credits from the academic areas listed below. A credit is one academic year of study.

Required College Preparatory Courses	Credits
English*	4
Mathematics**	2
Social Science	3
Natural Science***	2
College Preparatory Electives from the above areas or foreign language	3
Other Electives From the above areas or fine arts, computer science, and other academic areas	2

\*English: Three credits of high school composition and literature that include writing and grammar. The fourth English credit can be any English course approved by the Department of Public Instruction.

\*\*Mathematics: Algebra and geometry or 2 credits of algebra. We will not accept pre-algebra or similar courses.

\*\*\*Natural Science: Two credits from biology, chemistry, earth science/physical geography, or physics. If you are interested in pursuing a college major which requires considerable study in mathematics or the natural sciences, we recommend you complete 3 to 4 credits of mathematics and a minimum of 3 credits in the natural sciences.

3. You will be admitted if you rank at or above the 50th percentile of your high school graduating class and meet requirements 1 and 2.

OR

4. You will be admitted if you earn a composite score of 22 or higher on the American College Testing (ACT) examination and meet requirements 1 and 2.

OR

5. If you do not meet requirements 3 or 4, you will be considered for admission on an individual basis. We will look carefully at the combination of your high school rank and your ACT composite score.
6. If you are denied admission because you do not meet any of the above requirements, you may establish eligibility for admission on probation by

taking the ACT exam, achieving a composite score of at least 19 and either:

- a. Enrolling in a summer session at UW-Stevens Point or any regionally accredited college or university, taking 6 credits or more, and earning a grade point average of at least 2.0 (C) or better, OR
- b. Enrolling in the second semester of the academic year at UW-Stevens Point, taking 12 credits or more, and earning a grade point average of at least 2.0 (C) or better.

**NOTE:** Because we must limit enrollment, Option 6. is suspended until further notice.

7. If you do not qualify according to the above requirements, you may appeal to the director of admissions for special consideration. If you lack rank-in-class or adequate test scores, you may be considered on the basis of other factors that show you could be successful in college. We give particular consideration to applicants who have been out of school for three or more years or have been educationally disadvantaged.
8. All new freshman applicants must take the ACT examination.

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

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

**Other Applicants**

1. **Transfer Students.** 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.

2. **Returning UW-Stevens Point Students.** If you have been away from campus for one semester or longer, see the Readmission section below.
3. **Nondegree (Special) Students.** If you are a high school graduate and want to take a limited number of courses, and you don't seek a degree, you may be allowed to register for courses without formally applying for admission.
4. **High School (Special) Students.** Contact the Admissions Office for information on how to take courses at UW-Stevens Point before graduating from high school.

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. **Because we must limit enrollment at UW-Stevens Point, all admission regulations for undergraduate students are subject to change at any time.**

## Readmission to UW-Stevens Point

Write or visit the Admissions Office, Room 102, Student Services Center, to apply to be readmitted to UW-Stevens Point.

1. If you left UW-Stevens Point while in good academic standing, ask any colleges you've attended since leaving UW-Stevens Point to send a copy of your transcript to our Admissions Office so that we can determine your eligibility for readmission.
2. If you left UW-Stevens Point under academic suspension:

**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.

**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.

**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 University Appeal Committee.

## Orientation for New Students

As a new student 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) 346-3361.

If you are a nontraditional student, you may get additional information about orientation and registration by writing or visiting the Nontraditional Student Information, Reference, and Referral Service Office, Room 131 in the University Center, or by calling (715) 346-2045.

If you are a transfer or re-entering student, take part in our one-day program which allows you to meet with a faculty adviser, take whatever placement exams are necessary, and register for classes. We will give you full

information on this program when you apply for admission.

## Transferring Credits to UW-Stevens Point

To transfer credits you have earned elsewhere to UW-Stevens Point, ask each college you have attended to send a transcript of your credits to UW-Stevens Point's Admissions Office. The Admissions Office computer matches and applies the credits you have already earned with a grade of D or better from other institutions to our general degree requirements and toward the total number of credits you need to graduate.

- If you earned an approved associate degree from another UW 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 (technology and contemporary issues and one credit each of aerobics/activity and health enhancement).
- We accept a maximum of 72 credits you earn at a two-year college.
- The appropriate department decides which credits apply to your major and minor.
- To graduate from UW-Stevens Point, you must earn 30 credits or more on the UW-Stevens Point campus.

## 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 transcript evaluator 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 1976.
  - 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 transcript evaluator's response. You must file this appeal at least one semester before you expect to graduate.

## Transferring Credit from VTAE Institutions

If you have been enrolled in the VTAE System and wish to continue your education at a UW System campus, 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 successfully completed an Associate of Applied Science degree in the VTAE System since September 1, 1987, 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 when there is a direct relationship between a VTAE associate degree program and a program offered at UW-Stevens Point.
- If you are transferring from the VTAE System, 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.

### Transferring Credit from UW-Center System Campuses

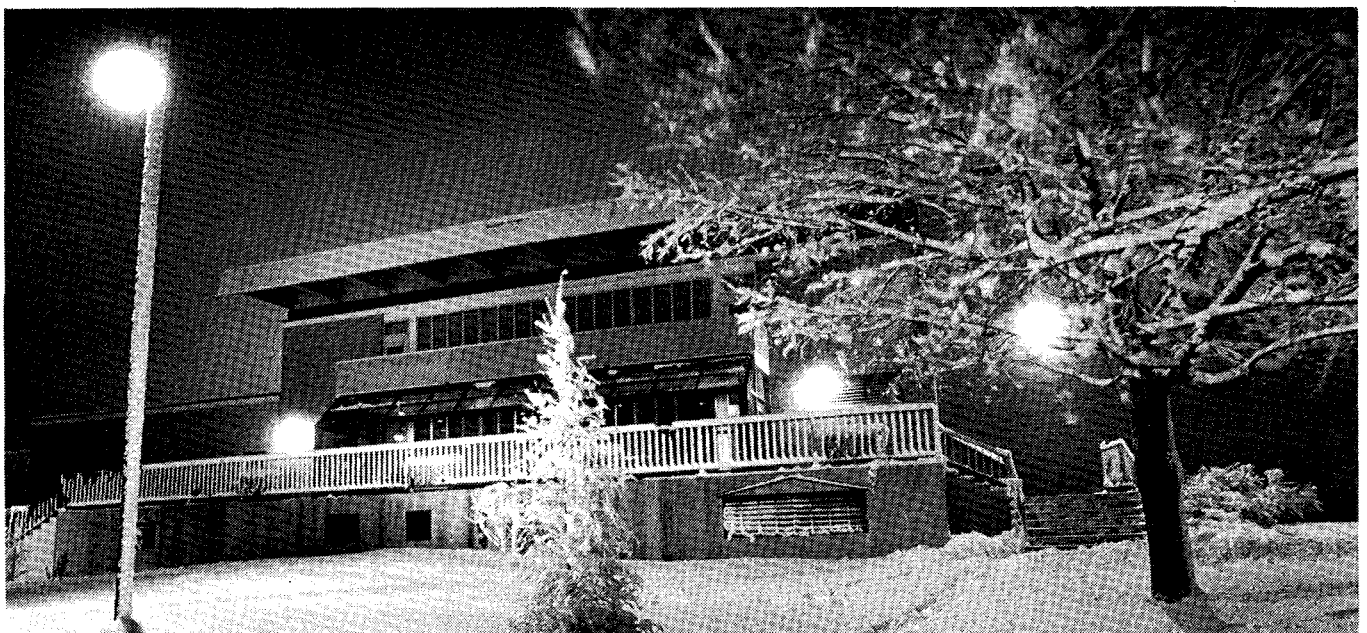
You may transfer up to a total of 72 credits in UW-Center System and other two-year college courses. Check the table below to see which Center System courses you've taken have UW-Stevens Point equivalents. The first column is a list of UW-Center courses from the UW-Center 1991-93 catalog. The second column lists equivalent courses at UW-Stevens Point. If UW-Stevens Point does not offer a course equivalent to a UW-Center course, this column will show the equivalent as an elective in a related area of study.

The third column describes how the UW-Center course will be applied toward the UW-Stevens Point general degree requirements (GDR's) when you transfer here. This column is left blank when a UW-Center course does not apply toward any of the UW-Stevens Point general degree requirements.

All UW-Center courses will transfer to UW-Stevens Point, regardless of equivalency or application to general degree requirements, unless noted in column three as "no credit." You will receive lower division (100-200 level) credit for any Center System courses which you transfer, even if the equivalent UW-Stevens Point course is an upper division course. Please contact the Admissions Office for additional information regarding the transferability of courses.

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

CIS	Computer Information Systems
COMM	Communication for general degree requirements
Comp Lit	Comparative Literature
FL	Foreign Language for general degree requirements
FLg	Foreign Language
GDR	General Degree Requirements
HI	History for general degree requirements
Hled	Health Education
HU1-4	Humanities Areas 1-4 for general degree requirements
Int	Interdisciplinary
Mls	Military Science
MNS	Minority Studies
NRes	Natural Resources
NS	Natural Science for general degree requirements
NW	Non-Western Culture
PE/AA	Physical Education/Aerobic Activity
PE/HE	Physical Education/Health Enhancement
Rec	Recreation
SS1-2	Social Science Categories 1 and 2 for general degree requirements
TCI	Technology and Contemporary Issues for general degree requirements
Wldl	Wildlife
Wstud	Women's Studies





# 6 UW Center Equivalency List

UW-Center	UW-Stevens Point Equivalent	Degree Requirement	UW-Center	UW-Stevens Point Equivalent	Degree Requirement
<b>Anthropology</b>			<b>BIOLOGICAL SCIENCES</b>		
Anth 100	Anth 101	SS1-NW	<b>Bacteriology</b>		
Anth 102	Anth 101	SS1-NW	Bac 101	Biol 333	NS
Anth 105	Anth 111	3 cr/SS1; 4 cr/NS	Bac 299	Biol 399	
Anth 200	Anth 101	SS1-NW	<b>Biology</b>		
Anth 204	Anth 101	SS1-NW	Bio 107	NRes 170	SS2
Anth 222	Anth elective	SS1-NW	Bio 109	Biol 100	NS
Anth 250	Anth elective	SS2	Bio 116	Biol elective	NS
Anth 291	Anth elective	SS1	Bio 151	Biol elective	TCI
Anth 299	Anth elective		Bio 152	Biol elective	NS
Anth 300	Anth elective	PE/HE	Bio 160	Biol 210	
Anth 301	Anth elective		Bio 230	Biol elective	TCI
Anth 302	Anth 395	SS1-NW	Bio 250	Biol 305	NS
Anth 303	Anth elective	NS	Bio 260	Biol 210	NS
Anth 308	Anth elective		<b>Botany</b>		
Anth 314	Anth 339	SS1-NW	Bot 100	Biol elective	NS
Anth 322	Anth elective	SS1-NW	Bot 130	Biol 130	NS
Anth 325	Anth elective	SS1-NW	Bot 202	Biol 344	
Anth 341	Anth elective	TCI	Bot 231	Biol 330	NS
Anth 343	Anth elective	SS1-NW	Bot 240	Biol elective	
Anth 350	Anth elective	PE/HE	Bot 291	Biol 498	
Anth 351	Anth elective	SS1	Bot 299	Biol 399	
Anth 353	Anth elective	SS1-NW	<b>Natural Resources</b>		
<b>Art</b>			For 120	For 120	
Art 100	Art elective		Wil 140	Wldl 140	
Art 101	Art 103		Nat 170	NRes 170	SS2
Art 102	Art 104		<b>Physiology</b>		
Art 103	Art 303		Phs 170	Biol elective	NS
Art 104	Art elective		Phs 202	Biol elective	NS
Art 105	Art 103		Phs 203	Biol elective	NS
Art 106	Art elective		Phs 230	Biol elective	NS
Art 107	Art 104		Phs 235	Biol 285	NS
Art 108	Art elective		<b>Zoology</b>		
Art 109	Art 303		Zoo 101	Biol 160	NS
Art 111	Art 101		Zoo 103	NRes 170	SS2
Art 112	Art 102		Zoo 105	Biol elective	
Art 113	Art 106		Zoo 140	Wldl 140	
Art 114	Art elective		Zoo 155	Biol 383	
Art 115	Art 102		Zoo 170	Biol elective	NS
Art 121	Art 234		Zoo 234	Biol 286	NS
Art 122	Art 331		Zoo 237	Biol 372	NS
Art 125	Art 334		Zoo 277	Biol 377	NS
Art 131	Art 351		Zoo 291	Biol 498	
Art 133	Art elective		Zoo 299	Biol 399	
Art 134	Art 351		Zoo 315	Watr 481	
Art 141	Art 321		Zoo 316	Watr 483	NS
Art 154	Art 361		Zoo 350	Biol 379	
Art 161	Art 315		<b>BUSINESS AND ECONOMICS</b>		
Art 170	Art 341		<b>Business</b>		
Art 172	Art 371		Bus 101	Bus 100	
Art 180	Art 181	HU1	Bus 110	Econ 372	
Art 181	Art 282	HU1	Bus 194	Bus elective	
Art 183	Art 283	HU1	Bus 201	Acct 210	
Art 185	Art 389	HU1	Bus 202	Acct elective	
Art 187	Art 383	HU1	Bus 204	Acct 211	
Art 188	Art 386	HU1	Bus 210	Bus elective	
Art 201	Art 236		Bus 243	Econ 310	
Art 202	Art 336		Bus 297	Bus elective	
Art 209	Art elective		Bus 299	Bus elective	
Art 210	Art 336		<b>Economics</b>		
Art 222	Art 332		Eco 101	Econ 100	SS1
Art 225	Art 335		Eco 203	Econ 210	SS1
Art 231	Art 351		Eco 204	Econ 211	SS1
Art 232	Art 352		Eco 230	Econ 360	SS1
Art 235	Art elective		Eco 243	Econ 310	
Art 236	Art 351		Eco 250	Econ 315	SS1
Art 237	Art elective		Eco 297	Econ elective	
Art 238	Art 352		Eco 299	Econ elective	
Art 241	Art 322		<b>Chemistry</b>		
Art 243	Art 421		Che 112	Chem 104	
Art 245	Art 421		Che 123	Chem 100	NS
Art 247	Art 421		Che 124	Chem 100	NS
Art 254	Art 362		Che 125	Chem 101	NS
Art 255	Art 362		Che 145	Chem 105	NS
Art 261	Art 320		Che 155	Chem 106	NS
Art 272	Art 372		Che 203	Chem elective	NS
Art 291	Art 398		Che 211	Chem elective	NS
Art 299	Art 399		Che 214	Chem elective	NS
<b>Astronomy</b>					
Ast 100	3 cr/Astr elective	3 cr/no GDR			
	4 cr-Astr 100	4 cr/NS			
Ast 101	Astr elective	NS			
Ast 200	Astr 205	NS			
Ast 291	1-2 cr/Astr elective				
	3 cr/Astr 380				

UW-Center	UW-Stevens Point Equivalent	Degree Requirement	UW-Center	UW-Stevens Point Equivalent	Degree Requirement
Che 244	Chem 248	NS	Eng 101	Engl 101	ENGL
Che 290	Chem elective		Eng 102	Engl 102	ENGL
Che 299	Chem elective		Eng 201	Engl 250	
Che 343	Chem 325	NS	Eng 202	Engl elective	HU2
Che 352	Chem 328	NS	Eng 203	Engl 253	
Che 363	Chem 326		Eng 204	Engl 353	
			Eng 210	Engl 251	
			Eng 220	Engl 240	
			Eng 250	Engl 200	HU2
			Eng 251	Engl 312	HU2
			Eng 253	Engl elective	HU2
			Eng 255	Engl elective	HU2
			Eng 260	Engl 211	HU2
			Eng 261	Engl 212	HU2
			Eng 262	Engl 213	HU2
			Eng 263	Engl 214	HU2
			Eng 264	Comp Lit 101	HU2
			Eng 265	Comp Lit 102	HU2
			Eng 266	Engl elective	HU2
			Eng 267	Engl elective	HU2
			Eng 270	Engl elective	HU2
			Eng 272	Engl elective	HU2
			Eng 274	Engl elective	HU2-NW
			Eng 275	Engl elective	HU2-NW
			Eng 276	Engl elective	HU2
			Eng 278	Engl elective	HU2
			Eng 279	Engl 285	HU2
			Eng 280	Engl elective	HU2
			Eng 290	Engl elective	HU2
			Eng 299	Engl 399	
			Eng 351	Engl 312	HU2
			Eng 353	Engl elective	HU2
			Eng 355	Engl elective	HU2
			Eng 370	Engl 383	HU2
			Eng 380	Engl 385	HU2
			<b>FOREIGN LANGUAGE</b>		
			<b>French</b>		
			Fre 101	French 101	FL
			Fre 103	French elctve	FL
			Fre 104	French 101	FL
			Fre 105	French 102	FL
			Fre 106	French elctve	FL
			Fre 107	French 102	FL
			Fre 118	FLg 100	
			Fre 119	FLg 100	
			Fre 201	French 211	FL
			Fre 203	French elctve	FL
			Fre 204	French 211	FL
			Fre 205	French 212	FL
			Fre 206	French elctve	FL
			Fre 207	French 212	FL
			Fre 215	FLg 100	
			Fre 216	FLg 100	
			Fre 219	French 318	
			Fre 221	French 341	HU2
			Fre 222	French 342	HU2
			Fre 223	French 370	HU2
			Fre 225	French 313	
			Fre 226	French 314	
			Fre 276	French elctve	HU2
			Fre 277	Comp Lit 350	HU2
			Fre 291	French 340	HU2
			Fre 299	French 499	
			<b>German</b>		
			Ger 101	Ger101	FL
			Ger 103	Ger elective	FL
			Ger 104	Ger 101	FL
			Ger 105	Ger 102	FL
			Ger 106	Ger elective	FL
			Ger 107	Ger 102	FL
			Ger 118	FLg 100	
			Ger 119	FLg 100	
			Ger 201	Ger 211	FL
			Ger 203	Ger elective	FL
			Ger 204	Ger 211	FL
			Ger 205	Ger 212	FL
			Ger 206	Ger elective	FL
			Ger 207	Ger 212	FL
			Ger 221	Ger 340	HU2
			Ger 222	Ger 340	HU2
			Ger 223	Ger 370	HU2
			Ger 225	Ger 313	
			Ger 226	Ger 314	
			Ger 276	Ger 243	HU2
			Ger 277	Comp Lit 350	HU2
<b>Communication Arts</b>					
Com 100	Comm 299				
Com 101	Comm 211	SS2			
Com 102	Comm 299				
Com 103	Comm 101	COMM			
Com 110	Comm elective				
Com 130	Thea 105	HU1			
Com 131	Thea 126, 226, 326, or 426				
Com 150	Comm 125	HU1			
Com 160	Comm elective				
Com 201	Comm elective	SS2			
Com 202	Comm elective				
Com 203	Comm elective				
Com 204	Comm elective				
Com 220	Comm elective				
Com 221	Comm elective				
Com 230	Comm elective	HU2			
Com 232	Thea 171				
Com 234	Thea 140				
Com 266	Comm 336				
Com 268	Comm elective	COMM			
Com 298	Thea elective				
Com 299	Thea 399				
Com 348	Thea 383				
Com 349	Thea elective				
<b>Computer Science</b>					
Cps 100	CIS 101				
Cps 101	CIS elective				
Cps 105	CIS 102				
Cps 110	CIS elective				
Cps 111	CIS 112				
Cps 113	CIS 110				
Cps 120	CIS elective				
Cps 130	CIS 102				
Cps 131	CIS elective				
Cps 133	CIS elective				
Cps 210	CIS elective				
Cps 211	CIS 112				
Cps 213	CIS 110				
Cps 231	Math 360				
Cps 240	CIS elective				
Cps 241	CIS 112				
Cps 243	CIS elective				
Cps 250	CIS elective				
Cps 251	CIS elective				
Cps 252	CIS elective				
Cps 253	CIS elective				
Cps 254	CIS elective				
Cps 255	CIS elective				
Cps 260	CIS 230				
Cps 270	CIS 210				
Cps 291	CIS elective				
Cps 299	CIS elective				
<b>Education</b>					
Edu 100	Educ 100				
Edu 200	Educ 100				
Edu 283	English 275				
Edu 300	Educ 351				
Edu 330	Educ elective				
<b>Engineering</b>					
Egr 100	Elective				
Egr 106	Elective				
<b>Engineering Graphics</b>					
Gra 102	Elective				
Gra 113	Elective				
<b>Engineering Mechanics</b>					
Mec 201	Physics 220				
Mec 202	Physics 221				
Mec 203	Elective				
<b>English and Literature</b>					
Eng 095	Engl 050	no credit			
Eng 096	Engl 050	no credit			
Eng 097	Engl 050	no credit			
Eng 098	Engl 050	no credit			

# 8 UW Center Equivalency List

UW-Center	UW-Stevens Point Equivalent	Degree Requirement	UW-Center	UW-Stevens Point Equivalent	Degree Requirement
Ger 291	Ger 340	HU2	His 111	Hist 105	HI
Ger 299	Ger 499		His 112	Hist elective	HI
<b>Spanish</b>			His 114	Hist elective	HI
Spa 101	Span 101	FL	His 115	Hist 106	HI
Spa 103	Span elective	FL	His 118	Hist 391	HI-NW
Spa 104	Span 101	FL	His 119	Hist 107	HI
Spa 105	Span 102	FL	His 120	Hist 108	HI
Spa 106	Span elective	FL	His 123	Hist 331	HU4 BS
Spa 107	Span 102	FL			HI BA BM BFA
Spa 118	FLg 100		His 124	Hist 332	HI
Spa 119	FLg 100		His 126	Hist elective	HI
Spa 201	Span 211	FL	His 127	Hist 327	HI-NW
Spa 203	Span elective	FL	His 150	Hist elective	HI
Spa 204	Span 211	FL	His 198	Hist elective	HU1
Spa 205	Span 212	FL	His 211	Hist 367	HI
Spa 206	Span elective	FL	His 213	Hist 254	HU4-NW BS
Spa 207	Span 212	FL			HI-NW BA BM BFA
Spa 219	Span 318		His 215	Hist elective	HI-NW
Spa 221	Span 342	HU2	His 216	Hist elective	HI
Spa 222	Span 341	HU2	His 219	Hist 338	HU4-NW BS
Spa 225	Span 313				HI-NW BA BM BFA
Spa 226	Span 314		His 222	Hist 346	HU4-NW BS
Spa 235	FLg 330	HU4			HI-NW BA BM BFA
Spa 236	FLg 330	HU4	His 240	Hist elective	HI
Spa 237	Span elective	HU2	His 254	Hist 373	HU4 BS
Spa 277	Comp Lit 350	HU2			HI BA BM BFA
Spa 291	Span 493	HU2	His 255	Hist elective	HI
Spa 299	Span 499	HU2	His 256	Hist elective	HI
			His 257	Hist elective	HI
			His 259	Hist elective	HI
<b>Geography</b>			His 260	Hist elective	HI
Geo 101	Geog 120	SS1-NW	His 270	Hist elective	HI
Geo 104	Geog elective	4 cr/NS; 3 cr/no GDR	His 278	Hist 130	HI-MNS
Geo 107	Geog elective	4 cr/NS; 3 cr/no GDR	His 280	Hist elective	HI
Geo 110	Geog 113	SS1-NW	His 283	Hist elective	HI
Geo 115	Geog 110	SS1-NW	His 285	Hist 359	HI
Geo 120	Geog 101	NS	His 286	Hist 360	HI
Geo 121	Geog elective		His 288	Hist elective	HU4
Geo 123	Geog elective	NS	His 289	Hist 356	HI
Geo 124	Geog elective	NS	His 290	Hist 389	HI
Geo 125	Geog 100	NS	His 293	Hist 358	HI
Geo 130	Geog 340	SS1	His 297	Hist elective	HI
Geo 200	Geog elective	SS1	His 299	Hist 399	HI
Geo 277	Geog elective	SS1			
Geo 291	Geog elective		<b>Interdisciplinary Studies</b>		
Geo 297	Geog elective		Int 100	Int elective	
Geo 299	Geog 395		Int 101	WStud 105	SS2
Geo 300	Geog 368	SS1	Int 105	Int elective	
Geo 324	Geog elective	SS1-NW	Int 210	Int elective	TCI
Geo 341	Geog 226	SS1	Int 230	Int elective	TCI
Geo 342	Geog 211	SS1	Int 231	Int elective	HU3
Geo 347	Geog 301	SS1-NW	Int 290	Int elective	
Geo 348	Geog 329	SS1-NW			
Geo 349	Geog 328	SS1	<b>Learning Resources</b>		
Geo 350	NRes 370	TCI	Lea 100	Eng 099	no credit
			Lea 101	Eng 099	no credit
			Lea 102	Psych 099	no credit
			Lea 103	Psych 099	no credit
			Lea 104	Psych 102	no credit
			Lea 105	Math 099	no credit
			Lea 106	FLg 099	no credit
<b>GEOLOGY AND METEOROLOGY</b>					
<b>Geology</b>			<b>Lecture Forum</b>		
Glg 100	Geol 100	NS	Lec 101	Lect elective	
Glg 101	Geol 104	NS	Lec 102	LRes 101	
Glg 102	Geol 105	NS			
Glg 104	Geol elective	4 cr/NS; 3 cr/no GDR	<b>Mathematics</b>		
Glg 107	Geol elective	4 cr/NS; 3 cr/no GDR	Mat 081	Math 099	no credit
Glg 130	Geol elective	NS	Mat 085	Math 099	no credit
Glg 131	Geol elective	NS	Mat 086	Math 099	no credit
Glg 135	Geol elective	NS	Mat 087	Math 099	no credit
Glg 169	Geol 100	NS	Mat 091	Math 050	no credit
Glg 291	Geol elective		Mat 092	Math 050	no credit
Glg 297	Geol 391		Mat 093	Math 050	no credit
Glg 299	Geol 295		Mat 094	Math 050	no credit
Glg 301	Geol 200	NS	Mat 095	Math 051	no credit
Glg 302	Geol 310	NS	Mat 096	Math 051	no credit
Glg 306	Geol elective		Mat 097	Math 051	no credit
Glg 309	Geol 352		Mat 105	Math 100	MATH
Glg 314	Geol 350	NS	Mat 110	Math 102 & 108	MATH
Glg 343	Geol 370		Mat 113	Math 106	MATH
Glg 350	Geog 375	TCI	Mat 117	Math 355	MATH
			Mat 124	Math 102,106&108	MATH
<b>Meteorology</b>			Mat 130	Math 228	MATH
Mlg 100	4 cr/Geog 353	4 cr/NS	Mat 132	Math 338	MATH
	2-3 cr/Geog elctve	3 cr/no GDR	Mat 140	Math 105	MATH BA; no GDR BS, BM/BFA
<b>History</b>					
His 101	Hist 211	HI			
His 102	Hist 212	HI			
His 105	Hist elective	HI			
His 106	Hist elective	HI			



UW-Center	UW-Stevens Point Equivalent	Degree Requirement	UW-Center	UW-Stevens Point Equivalent	Degree Requirement
Mat 210	Math elective	MATH	Mua 063	Music elective	MATH
Mat 211	Math 111		Mua 064	Music elective	
Mat 220	Math elective		Mua 065	Music elective	
Mat 221	Math 120		Mua 066	Music elective	
Mat 222	Math 121		Mua 067	Music 160	
Mat 223	Math 222		Mua 068	Music 160	
Mat 224	Math elective		Mua 069	Music elective	
Mat 230	Math 305		Mua 070	Music elective	
Mat 240	Math elective		Mua 093	Music 161	
Mat 262	Math 213		Mua 094	Music 161	
Mat 271	Math 320	Mua 103	Music 161		
Mat 272	Math elective	Mua 104	Music 161		
Mat 290	Math elective	Mua 105	Music 160		
Mat 299	Math elective	Mua 106	Music 160		
		Mua 109	Music 162		
		Mua 110	Music 162		
		Mua 113	Music 180		
		Mua 114	Music 180		
		Mua 116	Music 167		
		Mua 117	Music 167		
		Mua 119	Music 168		
		Mua 120	Music 168		
		Mua 122	Music 169		
		Mua 123	Music 169		
		Mua 125	Music 171		
		Mua 126	Music 171		
		Mua 128	Music 170		
		Mua 129	Music 170		
		Mua 131	Music 173		
		Mua 132	Music 173		
		Mua 134	Music 172		
		Mua 135	Music 172		
		Mua 137	Music 174		
		Mua 138	Music 174		
		Mua 140	Music 175		
		Mua 141	Music 175		
		Mua 143	Music 176		
		Mua 144	Music 176		
		Mua 146	Music 177		
		Mua 147	Music 177		
		Mua 149	Music 163		
		Mua 150	Music 163		
		Mua 152	Music 164		
		Mua 153	Music 164		
		Mua 155	Music 165		
		Mua 156	Music 165		
		Mua 158	Music 166		
		Mua 159	Music 166		
		Mua 161	Music 178		
		Mua 162	Music 178		
		Mua 163	Music elective		
		Mua 164	Music elective		
		Mua 169	Music 160		
		Mua 170	Music 160		
		Mua 203	Music 261		
		Mua 204	Music 261		
		Mua 205	Music 260		
		Mua 206	Music 260		
		Mua 209	Music 262		
		Mua 210	Music 262		
		Mua 213	Music 280		
		Mua 214	Music 280		
		Mua 216	Music 267		
		Mua 217	Music 267		
		Mua 219	Music 268		
		Mua 220	Music 268		
		Mua 222	Music 269		
		Mua 223	Music 269		
		Mua 225	Music 271		
		Mua 226	Music 271		
		Mua 228	Music 270		
		Mua 229	Music 270		
		Mua 231	Music 273		
		Mua 232	Music 273		
		Mua 234	Music 272		
		Mua 235	Music 272		
		Mua 237	Music 274		
		Mua 238	Music 274		
		Mua 240	Music 275		
		Mua 241	Music 275		
		Mua 243	Music 276		
		Mua 244	Music 276		
		Mua 246	Music 277		
		Mua 247	Music 277		
		Mua 249	Music 263		
		Mua 250	Music 263		
		Mua 252	Music 264		
<b>Military Science</b>					
Mls 101	Mls 101	PE/HE			
Mls 205	Mls 213				
Mls 213	Mls elective				
Mls 251	Mls elective				
Mls 302	Mls elective				
Mls 303	Mls elective				
<b>Music, Applied</b>					
Mua 001	Music 158				
Mua 002	Music 158				
Mua 003	Music 159				
Mua 004	Music 159				
Mua 005	Music 160				
Mua 006	Music 160				
Mua 007	Music 151				
Mua 008	Music 151				
Mua 009	Music 162				
Mua 010	Music 162				
Mua 011	Music 149				
Mua 012	Music 149				
Mua 013	Music 180				
Mua 014	Music 180				
Mua 015	Music 154				
Mua 016	Music 167				
Mua 017	Music 167				
Mua 018	Music 154				
Mua 019	Music 168				
Mua 020	Music 168				
Mua 021	Music 155				
Mua 022	Music 169				
Mua 023	Music 169				
Mua 024	Music 155				
Mua 025	Music 171				
Mua 026	Music 171				
Mua 027	Music 154				
Mua 028	Music 170				
Mua 029	Music 170				
Mua 030	Music 156				
Mua 031	Music 173				
Mua 032	Music 173				
Mua 033	Music 156				
Mua 034	Music 172				
Mua 035	Music 172				
Mua 036	Music 156				
Mua 037	Music 174				
Mua 038	Music 174				
Mua 039	Music 156				
Mua 040	Music 175				
Mua 041	Music 175				
Mua 042	Music 156				
Mua 043	Music 176				
Mua 044	Music 176				
Mua 045	Music 157				
Mua 046	Music 177				
Mua 047	Music 177				
Mua 048	Music 152				
Mua 049	Music 163				
Mua 050	Music 163				
Mua 051	Music 152				
Mua 052	Music 164				
Mua 053	Music 164				
Mua 054	Music 153				
Mua 055	Music 165				
Mua 056	Music 165				
Mua 057	Music 153				
Mua 058	Music 166				
Mua 059	Music 166				
Mua 060	Music elective				
Mua 061	Music 178				
Mua 062	Music 178				



UW-Center	UW-Stevens Point Equivalent	Degree Requirement
<b>Political Science</b>		
Pol 101	Poli Sci elective	SS1
Pol 104	Poli Sci 101	SS1
Pol 106	Poli Sci 206	SS1-NW
Pol 199	Poli Sci 314	SS1
Pol 201	Poli Sci 270	HU3
Pol 206	Poli Sci elective	SS1-NW
Pol 219	Poli Sci 202	SS1
Pol 220	Poli Sci elective	SS1
Pol 221	Poli Sci elective	SS1
Pol 225	Poli Sci 242	SS1
Pol 231	Poli Sci elective	HU3
Pol 275	Poli Sci 280	SS1
Pol 298	Poli Sci 499	SS1
Pol 299	Poli Sci 499	
Pol 308	Poli Sci 310	SS1
Pol 352	Poli Sci 356	SS2
Pol 385	Poli Sci 383	SS1
<b>Psychology</b>		
Psy 201	Psych 110	SS1
Psy 202	Psych 110	SS1
Psy 203	Elective	
Psy 205	Psych 250	SS1
Psy 208	Psych elective	SS1
Psy 210	Psych 300	
Psy 224	Psych elective	
Psy 225	Psych 389	
Psy 250	Psych 260	SS1
Psy 254	Psych 325	
Psy 299	Psych 399	
Psy 307	Psych 301	SS1
Psy 309	Psych 351	SS1
Psy 311	Psych 490	SS1
Psy 330	Psych 320	SS1
Psy 360	Psych 260	SS1
Psy 361	Psych 315	SS1
Psy 362	Psych elective	SS1
<b>Sociology</b>		
Soc 101	Sociol 101	SS1-MNS
Soc 120	Sociol 240	SS1
Soc 125	Sociol elective	SS1
Soc 130	Sociol 102	SS1-MNS
Soc 131	Sociol 230	SS1
Soc 134	Sociol 270	SS1-MNS
Soc 138	Sociol elective	SS2
Soc 160	Sociol elective	PE/HE
Soc 170	Sociol 260	SS1
Soc 250	Sociol elective	SS1
Soc 291	Sociol elective	SS1
Soc 293	Sociol elective	SS1
Soc 299	Sociol elective	SS1
Soc 335	Sociol 310	SS1
Soc 357	Sociol 352	
<b>Women's Studies</b>		
Wom 101	Wstud 105	SS2
Wom 138	Wstud elective	SS2
Wom 202	Wstud elective	HU3
Wom 208	Wstud elective	SS1
Wom 231	Wstud elective	HU4
Wom 250	Wstud elective	SS2
Wom 291	Wstud 300	HU4
Wom 299	Wstud 499	

**Test-Out Programs**

You may test out of courses through several programs, some of which even give you course credit.

**Advanced Placement Program (APP)**

UW-Stevens Point grants degree credit for scores of 3, 4, and 5 on all College Board Advanced Placement Program (APP) examinations. To find out how these credits are applied toward degree requirements and/or requirements for a major or minor, contact the Admissions Office, Room 102, Student Services Center, (715) 346-2441. To find out where and when you may take the APP examinations, contact your high school counselor.

**College Level Examination Program (CLEP)**

UW-Stevens Point is a CLEP test site, and we award credit and advanced standing for acceptable scores in many, but not all, CLEP subject exams and general exams. For information on CLEP tests contact the UW-Stevens Point Admissions Office, Room 102, Student Services Center, (715) 346-2441, or the Counseling Center, Room 304, Delzell Hall, (715) 346-3553.

**Department Testing Programs**

As part of new student orientation, you take part in some departments' testing programs. Check with the chairs of individual departments for further information about their test-out procedures.

**Experiential Learning Program**

If you have had experiences equivalent to college level learning which relate to course work at UW-Stevens Point, 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, contact the Nontraditional Student Services Office, Room 131, University Center, (715) 346-2045.

**Continuing Education and Extension**

Michael J. Offerman, Director  
Room 103, Main Building  
Phone: (715) 346-3717

If you are an adult and wish to continue or renew your education, you may take one of the graduate or undergraduate credit courses or noncredit programs offered through our Division of Continuing Education and Extension.

Credit courses are taught by faculty at various sites throughout Central Wisconsin as well as via television. These courses are offered primarily in the evening or on weekends to accommodate the busy schedules of working adults.

You may take these credit courses even if you do not plan to pursue a degree. However, if you wish to work toward a bachelor's degree, you must apply for admission through the Admissions Office. You should also consult with an adviser about what courses to take.

Our noncredit programs address a broad range of topics and areas of interest. To take advantage of them, you do not need to be admitted to UW-Stevens Point or involved in a degree program.

**Small Business Development Center**

The UW-Stevens Point Small Business Development Center (SBDC) provides management education and assistance to small businesses and people thinking of starting a business. It offers noncredit courses and seminars as well as individualized professional business counseling. The office is located in Room 012, Old Main Building, (715) 346-2004.



# Finances

## How to Apply for Financial Aid

If you are a new first-year student:

- Request a Family Financial Statement 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.
- When you receive the Pell Grant Student Aid Report from the Pell Grant Administration, complete and return it to the Financial Aid Office.

If you are a transfer student:

- Follow these same two steps and
- Have all schools you've attended in the past send a financial aid transcript to the Financial Aid Office, Room 106, Student Services Center, UW-Stevens Point, Stevens Point, WI 54481.

If you are a continuing student, obtain a Family Financial Statement from the UW-Stevens Point Financial Aid Office during the first semester of each 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 this type 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.

## Types of Financial Aid

When you apply for financial aid, we consider you 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 \$1,800, which are usually matched with a tribal grant to Wisconsin Indian students who show financial need.
- Pell Grant—Awards up to \$2,300 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 \$2,000 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 \$1,700 per academic year as determined by the Wisconsin Higher Educational Aids Board based on need.
- Wisconsin Talent Incentive Program—Awards up to \$1,550 to disadvantaged Wisconsin residents in their first or second years of college study. The combined amount of the Talent Incentive Program award and the Wisconsin Higher Education Grant cannot exceed \$1,800.
- 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

If you are looking for work, contact the Student Employment Office (SEO), Room 003, Student Services Center, 346-2174, for assistance in finding a job. The SEO staff makes work study, community service (CS-JLD), and job location and development (JLD) job referrals. They also provide information on other types of jobs that are available on campus.

With their assistance you not only can develop job skills, but prepare your resume and develop effective interview techniques.

- College Work Study Program/WS: The SEO provides referrals for both on and off-campus work study jobs for all students with work study eligibility. The Financial Aid Office determines work study eligibility on the basis of student need and educational indebtedness.
- Community Service/Job Location and Development Program/CS-JLD: The SEO provides off-campus referrals for work study eligible students interested in career-oriented jobs that provide a community service.

### Loans

- Perkins Loans (formerly National Direct Student Loans): Loans of up to \$4,500 if you have completed less than two years of study and \$9,000 if you have achieved junior standing. Graduate students may borrow up to \$18,000 which includes any amount borrowed for undergraduate study.
- Private Lender Stafford Loans (formerly Guaranteed Student Loans): Loans of up to \$2,625 per year for the first two undergraduate years, \$4,000 per year for the remaining years and up to \$7,500 per year for graduate students who can demonstrate need. The total Stafford debt you can have outstanding as an undergraduate is \$17,250 and \$54,750 as a graduate student.

*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 those with a financial aid award, financial aid recipients should consult the Financial Aid Office BEFORE seeking other work.*

### Jobs

- The Job Location and Development Program/JLD: The Student Employment Office recruits jobs from

the private sector in Central Wisconsin that are open to all students regardless of need or financial aid eligibility.

- **Community Service/JLD Program:** The Student Employment Service recruits jobs from local non-profit governmental and community organizations. These career-oriented field experience jobs involve child care, health care, elderly care and assistance, literacy training, and tutoring for low-income and disadvantaged people.
- **Other Campus Jobs:** The SEO provides authorization to work forms for "regular" campus jobs that are NOT funded by the work study program. These jobs are available through various departments, the University Center, and Food Service. Students who work for Food Service are paid directly by ServiceMaster Education Food Management, whereas all other students are paid on the university payroll.
- **Cooperative Education Program:** In this program, you are involved in part-time or full-time work which complements your academic major or career goals. Contact the Career Services Office, Room 134, Main Building, (715) 346-3136.

**Loans**

- **PLUS/SLS Loan:** Loans of up to \$4,000 per year. The maximum you may receive is \$20,000. Pick up an application at a bank, credit union, or savings and loan. Independent students must first apply for financial aid before submitting an SLS application.

**Scholarships**

- **Army ROTC Scholarship:** Four- and three-year scholarships are awarded on merit to the most outstanding students who apply. Each scholarship pays for college tuition and educational fees which are required of all students, and provides a fixed amount for textbooks, supplies and equipment. Each scholarship also includes an allowance of up to \$1,000 for every year the scholarship is in effect. For more information, contact the chair of the Military Science Department, Room 204, Student Services Center, (715) 346-3821.
- **Simultaneous Member Program:** Provides a tax-free subsistence allowance of \$100 a month for up to 10 months a year plus Reserve or National Guard pay of about \$125 a month. After completing the two-year ROTC commissioning program, the student receives a commission as a Second Lieutenant in either the Army Reserve or National Guard. For more information, contact the chair of the Military Science Department, Room 204, Student Services Center, (715) 346-3821.
- **Other Scholarship or Award:** Other scholarships and awards are also available. Contact the Director of Alumni Relations and the individual UW-Stevens Point departments and programs.

**Special Fee Remission Consideration**

- **Special fee remission consideration** has long been available for targeted groups such as foreign and minority students. There are also 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 cultural diversity and 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. For full information on these programs, contact the Registration and Records Office, Room 101, Student Services Center, (715) 346-4301.

**Tuition and Fees**

This is what we estimate you would have to pay if you were enrolling for the 1991-92 school year. The costs will probably change somewhat by the time you read this. To find out the most current costs, visit the Accounts Receivable Office, Room 105, Student Services Center, or call (715) 346-4796.

**Wisconsin Residents**

Credits	U-grad		Extnsn	
	Costs*	Grad Costs*	U-grad Costs*	Grad Costs*
1	\$ 97.35	\$139.90	\$ 66.45	\$109.00
2	188.20	273.30	132.90	218.00
3	279.05	406.70	199.35	327.00
4	369.90	540.10	265.80	436.00
5	460.75	673.50	332.25	545.00
6	541.70	797.00	398.70	654.00
7	608.15	906.00	465.15	763.00
8	674.60	1015.00	531.60	872.00
9	741.05	1125.00	598.05	982.00
10	807.50		664.50	
11	873.95		730.95	
12-18	939.40		796.40	
per cr/18	63.75		63.75	

**Minnesota Residents**

Credits	U-grad		Extnsn	
	Costs*	Grad Costs*	U-grad Costs*	Grad Costs*
1	\$101.60	\$134.90	\$ 70.70	\$104.00
2	196.70	263.30	141.40	208.00
3	291.80	391.70	212.10	312.00
4	386.90	520.10	282.80	416.00
5	482.00	648.50	353.50	520.00
6	567.20	767.00	424.20	624.00
7	637.90	871.00	494.90	728.00
8	708.60	975.00	565.60	832.00

9	779.50	1079.00	636.30	936.00
10	850.00		707.00	
11	920.70		777.70	
12-18	992.40		850.40	
per cr/18	68.00		68.00	

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

**All Others**

Grad Credits	U-grad		Extnsn	
	Costs*	Costs*	Grad	U-grad
1	\$249.35	\$383.90	\$218.45	\$353.00
2	492.20	761.30	436.90	706.00
3	735.05	1138.70	655.35	1059.00
4	977.90	1516.10	873.80	1412.00
5	1220.75	1893.50	1092.25	1765.00
6	1453.70	2261.00	1310.70	2118.00
7	1672.15	2614.00	1592.15	2471.00
8	1890.60	2967.00	1747.60	2824.00
9	2109.05	3319.00	1966.05	3176.00
10	2327.50		2184.50	
11	2545.95		2402.95	
12-18	2762.90		2619.90	
per cr/18	215.75		215.75	

\*The total cost includes tuition (also called the incidental fee) and seven 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), 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 break-down, call the Accounts Receivable Office, Room 105G, Student Services Center, (715) 346-4796.

The 50 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 50 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**

According to Section 36.27 of the Wisconsin Statutes, you are eligible for the resident tuition rate if you are:

1. An adult who has resided in the state for 12 months before the semester or session for which you are registering,
2. A minor whose parents have resided in the state for 12 months before the semester or session for which you are registering,
3. A minor or adult student who is a legal dependent of his or her parents or guardian whose natural parents are divorced or legally separated and who

has one or both parents residing here at least 12 months before the semester or session for which you are registering,

4. A minor student who is an orphan and who has resided "substantially" in this state and resided here at least 12 months before the semester or session for which you are registering or whose legal guardian has resided here for 12 months before the semester or session for which you are registering,
5. A minor under guardianship (under Chapters 48 or 880) who has resided "substantially" in the state and resided here at least 12 months before the semester or session for which you are registering,
6. An adult employed as a migrant worker for at least two months each year for three of the five years before the semester for which you are registering, or for at least three months each year for two of the five years before the semester for which you are registering; or an adult whose parent or legal guardian was so employed when you were a minor; or a minor whose parent or legal guardian was so employed,
7. A nonresident member of the armed forces stationed in the state for purposes other than education, or the spouse or child of such an individual while that person is stationed here,
8. A graduate of a Wisconsin high school whose parents resided in the state for 12 months before the semester or session for which you are registering, or whose last surviving parent resided here for 12 months before her or his death,
9. An adult, and the spouse and dependent of an adult who is continuously employed full time by a business located in this state, who was relocated to this state for business purposes by his or her current employer or who moved to this state for business purposes and accepted his or her current employment before moving and before applying for admission to a UW System institution.

You can prove your bona fide residence with such things as Wisconsin income tax returns, eligibility to vote in Wisconsin, Wisconsin vehicle registration and driver's license, your place of employment and whether you are self-supporting. Regardless of the categories listed above, if you enter and remain in Wisconsin principally to obtain an education, we presume that you continue to reside outside of Wisconsin until you can show clear and convincing evidence of bona fide Wisconsin residency.

Contact the Admissions Office, Room 102, Student Services Center, 346-2441, for further information about your proper 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.

**Billing and Payment of Tuition and 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 the second week of classes, you will have to pay a \$30 penalty. If you delay payment



until the third or fourth week, you will have to pay a \$45 penalty. If you don't pay by the fifth 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 or graduate special 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. If you have been admitted to the Graduate School you must pay graduate fees for all 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.

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**

Write a note to the Registrar's Office as soon as you decide to cancel your enrollment at UW-Stevens Point. If we receive your note before the first day of classes telling us that you are cancelling your registration, we refund your tuition and all your academic fees. If we receive your note after the first day of classes, you may have to pay a \$30 withdrawal fee.

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

Session Length (wk)	Withdrawal during Week —				
	1	2	3	4	4+
12 or more	100%	80%	60%	40%	0
10 & 11	100%	80%	60%	0	0
6 thru 9	100%	70%	30%	0	0
5	100%	60%	20%	0	0
4	100%	40%	0	0	
3	100%	30%	0		
2	100%	0			

We use this same refund 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 refund 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 Costs**

At UW-Stevens Point, most students are required to live in residence halls until they have completed four semesters of college work. If you are married, a veteran, living with your parents, or receive a special exemption

because you have been out of school two years or more, you need not comply with this requirement.

You will 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 in the 1991-92 school year, students will pay \$738 each semester for a double room and \$1047 each semester for a single room in a residence hall. In the summer of 1991, students paid \$346 for a double room and \$484 for a single room.

As a hall resident, for a proposed cost of \$644 per semester in 1991-92, you may select a meal plan which provides 20 meals per week, 14 meals plus 40 points per week, 10 meals plus 100 points, or 5 meals plus 220 points. ("Points" are credits which allow you to eat anywhere on campus.) In summer 1991, the 14 meal plus 40 point plan cost \$365 and the 20 meal plan cost \$385.

## 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, each semester or even each year, some courses listed below as satisfying general degree requirements. 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.

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 your room reservation deposit on an academic year contract, request one before June 1. If you want to receive a refund of your room reservation deposit on a second semester contract, request one before December 1. If you are a junior or senior using the one-semester option, you may receive a refund of your deposit at the end of the semester.

If you get married, do student teaching, 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 Office of Residence Life in the lower level of Delzell Hall.

If you withdraw from UW-Stevens Point, you must also terminate your residence hall agreement. For further information on this subject, see the section of this catalog entitled *Withdrawing from UW-Stevens Point*.

We prorate all refunds for room and board from the Sunday after you terminate your contract.

After you complete the requirements for one degree, if you wish to earn a second and different degree, you may do so by taking at least 30 additional credits and completing the requirements for the second degree.

### Test-Out Procedures for GDR Courses.

The following test-out procedures apply to GDR courses marked with a single asterisk (\*). See the appropriate department chair for information on testing out of courses listed in sections marked with a double asterisk (\*\*).

#### English:

You take this exam during orientation/ registration. Based on your test scores, you may be placed in English 150. Successful completion of English 150 will satisfy your freshman English requirement.

#### Communication:

To be eligible to take the test-out examination for Communication 101, you must: (1) have earned a grade of B or better in a year-long high school course in speech communication, or (2) have competed at the state level in high school debate or competitive forensics in an "Original Oratory," "Extemporaneous Speaking," or "Public Address" event.

You must then take a written examination testing basic concepts in public speaking. If you receive a passing grade on this examination you must deliver a six to seven minute original persuasive speech extemporaneously to a three-judge panel. If you receive an average grade on your oral presentation of B or better, 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. 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 50 or 51, begin the course the semester when you first enroll and remain continuously enrolled in the remedial courses until the requirement is complete.
- Math 100 is a prerequisite for Math 101, 102, 106, 109, 111, 228, 328, 355. Math 102 is a prerequisite for Math 106 and 108. You may NOT earn credit in BOTH Math 101 and 106.
- Courses which will satisfy the "4 credits beyond 100" are Math 101, 102, 106, 108, 109, 111, 228 (for elementary education majors ONLY), 328 (for early childhood 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.
- 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. 50	50, 51, 100 or 105 <sup>1</sup>	50, 51, 100, 4 cr beyond 100
2. 51	51, 100 or 105 <sup>1</sup>	51, 100, 4 cr beyond 100
3. 100 (or 105 <sup>1</sup> for B.A.)	100 or 105 <sup>1</sup>	100, 4 cr beyond 100
4. Any of 101 <sup>2</sup> , 102, 109, 111, 228, 328, 355	Complete	4 cr beyond 100
6. Any of 101 <sup>2</sup> , 106 <sup>2</sup> , 108, 109, 111, 228, 328, 111, 355	Complete	2 cr beyond 100 NOT incl 102
7. Any of 108, 109, 111, 228, 328, 355	Complete	Complete
8. Any of 101 <sup>2</sup> , 106 <sup>2</sup> , 109, 111, 228, 328, 355	Complete	Complete
9. Any of 109, 111, 120, 228, 328, 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.		

<sup>1</sup>May not earn credit in both 100 and 105.  
<sup>2</sup>May not earn credit in both 101 and 106.

## 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. See note below.  
**Writing Emphasis (WE).** 6 credits required. English 101 and 102 or 150 are prerequisites to WE courses. We recommend that, after successfully completing freshman English, you take one WE course before completing 75 credits and one WE course after completing 75 credits. You must take at least one WE course outside your major. See the timetable to find out which courses we offer as WE. You may use WE courses simultaneously to fulfill electives, major requirements, or general degree requirements.  
 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. Six WE credits are required, but they are NOT part of the GDR total.
  - B. **Communication.\*** 2 credits required; Communication 101.
  - C. **Mathematics.\*** 2-3 credits required; Mathematics 100, 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. This policy begins with the new freshmen of fall 1989.

2. **Critical Thinking/Natural Science.\*\*** 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 on 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 and 115, 116.
  - Geography 100 or 101.
  - Geology 100, 104, 105.
  - Physics 100 or 101, 103, 104, 150, 250.
3. **Critical Thinking/Cultural Awareness.\*\*** 32 credits required. You must take at least one course designated non-Western (NW) culture and (beginning with all freshmen entering fall 1990 and transfer/re-entry students entering fall 1991 and after) at least one course designated minority

studies (MNS). You may satisfy the minority studies requirement by taking any 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, 337-338(NW), 345-346(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 humanities or social science.

- 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, 282, 283, 284(NW), 347(NW), 381, 382(NW), 383, 384, 385, 386, 387, 388(NW), 389.

Communication 121, 125, 171, 272, 355, 362, 363, 369.

Fashion/Interior Design 309, 310(NW), 329.  
 Honors 100, 150(NW).

International Studies 301.

Music 100, 102, 220, 221, 300 (NW when offered in Malaysia or Taiwan programs), 301, 304, 305, 320, 321, 323, 326, 329, 426, 427, 428(NW).

Theatre 105, 329, 351, 352, 361, 490.

### Humanities Area 2

Literature:

Comparative Literature 101, 102, 317.  
 English 103, 106, 108, 170, 200, 203, 211, 212, 213, 214, 280(NW), 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, 378, 382, 383.

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

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

Honors 100, 150(NW).

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

Spanish 340, 341, 342, 353, 354, 449, 450, 493.

Theatre 213, 215, 313.

### Humanities Area 3

Philosophy, political theory, and religious studies:

Honors 100, 150(NW).

Philosophy 100, 101, 102, 104, 105(NW), 121, 217, 218, 220, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 315, 320, 329, 330, 331(NW), 332, 335(NW), 337(NW), 338(NW), 340, 380, 381(NW).

Political Science 391, 392, 393, 394.

Religious Studies 100(NW), 101, 102(MNS), 105(NW), 301, 302, 303, 304, 305(NW), 310, 311(MNS), 315, 316(MNS), 321, 330, 331.

**Humanities Area 4**

Civilization, area studies, and interdisciplinary courses:

- Foreign Language 381.
- French 381.
- German 381.
- Honors 100, 150(NW).
- International Studies 100, 101(NW), 103, 104, 201, 202, 300, 302.
- Russian 381(NW).
- Spanish 381, 382.
- 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 physical education (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), 120(NW), 250(NW), 295(NW), 310(NW), 320(NW), 322(NW), 330(NW), 334, 335(NW), 336(NW), 337(NW), 338(NW), 339(NW), 343(NW), 370(NW), 380(NW), 395(NW).
- Economics 100, 210, 211, 311, 328, 345.
- Geography 110(NW), 113(NW), 120(NW), 211, 226, 270, 272, 300(NW), 301(NW), 302(NW), 327(NW), 328, 329(NW), 330(NW), 340, 368, 369, 373, 374.
- Honors 301.
- Political Science 101, 201, 202(MNS), 206(NW), 212, 242, 250, 280, 361, 364(NW), 370(NW), 497.
- Psychology 110, 240, 250, 260, 315, 320, 330.
- Sociology 101(MNS), 102(MNS), 224, 225, 230, 240, 260, 265, 270(MNS), 300, 310, 322(NW), 327, 343(NW), 370(NW).

**Social Science Category 2**

- Communication 211, 217.
- Honors 301.
- Human Development 261, 265, 367, 372.
- Natural Resources 170, 372.
- Political Science 354, 356.
- Sociology 308, 315, 328, 357, 359, 366, 368.
- Women's Studies 105.

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

4. **Technology and Contemporary Issues.** 3 credits required, offered only at junior and senior level. We recommend that you complete the natural science component before meeting this requirement. Choose one of these:
- Anthropology 373.
  - Biology 304, 327.
  - Education 384.
  - English 391.
  - Geography 375.
  - History 393, 394.
  - Honors 375.
  - Human Development 381.
  - Medical Technology 395.
  - Natural Resources 370, 395, 478.
  - Peace Studies 340.
  - Philosophy 327.
  - Political Science 304, 306.
  - Psychology 393.
  - Sociology 373.
  - Water 350.
  - Wildlife 320.
5. **Physical Education and Health Enhancement.\*\*** 4 credits required.
- A. Take 2 credits in aerobics/activity (A/A) from the following:
- Dance 103, 104, 105, 106, 203, 204, 205, 206, 211, 212, 227, 303, 304, 305, 306, 327, 403, 404, 405, 406.
  - General Physical Education 100 to 198 (labeled A/A in the timetable).
  - Physical Education 110, 231.
- B. Take 2 credits in health enhancement from the following:
- Food and Nutrition 151.
  - General Physical Education 143, 144, 145, 146, 147, 148, 149, 150, 151.
  - Health Education 104, 140.
  - Human Development 367 (counts for this category or Social Science Area 2, but not both).
  - Physical Education 102.
  - Psychology 255, 290.
6. **Minimum Credits for Graduation.** To graduate, you must earn at least 124 credits in your major and approved electives. In certain majors, you'll need more than 124 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.



## 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. See note below.  
**Writing Emphasis (WE).** 6 credits required. English 101 and 102 or 150 are prerequisites to WE courses. We recommend that, after successfully completing freshman English, you take one WE course before completing 75 credits and one WE course after completing 75 credits. You must take at least one WE course outside your major. See the timetable to find out which courses we offer as WE. You may use WE courses simultaneously to fulfill electives, major requirements, or general degree requirements.  
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. Six WE credits are required, but they are NOT part of the GDR total.
  - B. **Communication.\*** 2 credits required: Communication 101.
  - C. **Mathematics.\*** 6 credits required: Mathematics 100 plus 4 credits from Mathematics 101, 102, 106, 108, 109, 111, 228 (for elementary education majors ONLY), 328 (for early childhood education majors ONLY), 355. 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. This policy begins with the new freshmen of fall 1989.

2. **Critical Thinking/Natural Science.\*\*** 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 on taking more than one course in a discipline.  
Astronomy 100 or 311 (no lab), 205, 206.  
Biology 100 or 101, 130, 160, 285 (PE majors only), 333.  
Chemistry 100 or 101, 105, 106, 114 and 115, 116.  
Geography 100 or 101.  
Geology 100, 104, 105.  
Physics 100 or 101, 103, 104, 150, 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 course (beginning with freshmen entering fall 1990 and transfer/re-entry students entering fall 1991 and after) designated minority studies (MNS). You may satisfy the minority studies requirement by taking any course designated minority studies (MNS).

- A. **History.\*\*** 3 credits from the following: History 105, 106, 107, 108, 120, 130(MNS), 211, 212, 330, 332, 334, 366, 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 humanities or social science.

- 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, 282, 283, 284(NW), 347(NW), 381, 382(NW), 383, 384, 385, 386, 387, 388(NW), 389.

Communication 121, 125, 171, 272, 355, 362, 363, 369.

Fashion/Interior Design 309, 310(NW), 329.  
Honors 100, 150(NW).

International Studies 301.

Music 100, 102, 220, 221, 300 (NW when offered in Malaysia or Taiwan programs), 301, 304, 305, 320, 321, 323, 326, 329, 426, 427, 428(NW).

Theatre 105, 329, 351, 352, 361, 410, 412, 490.

### Humanities Area 2

Literature:

Comparative Literature 101, 102, 317.  
English 103, 106, 108, 170, 200, 203, 211, 212, 213, 214, 280(NW), 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, 378, 382, 383.

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

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

Honors 100, 150(NW).

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

Spanish 340, 341, 342, 353, 354, 449, 450, 493.

Theatre 213, 215, 313.

### Humanities Area 3

Philosophy, political theory, and religious studies:

Honors 100, 150(NW).

Philosophy 100, 101, 102, 104, 105(NW), 121, 217, 218, 220, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 315, 320, 329, 330, 331(NW), 332, 335(NW), 337(NW), 338(NW), 340, 380, 381(NW).

Political Science 391, 392, 393, 394.

Religious Studies 100(NW), 101, 102(MNS), 105(NW), 301, 302, 303, 304, 305(NW), 310, 311(MNS), 315, 316(MNS), 321, 330, 331.

**Humanities Area 4**

Civilization, area studies, and interdisciplinary courses:

Foreign Language 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, 331, 333, 337(NW), 338(NW), 343(NW), 344(NW), 345(NW), 346(NW), 347(NW), 348(NW), 349(NW), 350(NW), 351(NW), 352(NW), 377, 378, 379(MNS), 382(MNS), 383, 385, 388(MNS), 392. (Note that History 379, 382, and 385 meet the Wisconsin Department of Public Instruction's human relations requirement for teacher certification.)

Honors 100, 150(NW).

International Studies 100, 101(NW), 103, 104, 201, 202, 300, 302.

Russian 381(NW).

Spanish 381, 382.

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 physical education/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), 120(NW), 250(NW), 295(NW), 310(NW), 320(NW), 322(NW), 330(NW), 334, 335(NW), 336(NW), 337(NW), 338(NW), 339(NW), 343(NW), 370(NW), 380(NW), 395(NW).

Economics 100, 210, 211, 311, 328, 345.

Geography 110(NW), 113(NW), 120(NW), 211, 226, 270, 272, 300(NW), 301(NW), 302(NW), 327(NW), 328, 329(NW), 330(NW), 340, 368, 369, 373, 374.

Honors 301.

Political Science 101, 201, 202(MNS), 206(NW), 212, 242, 250, 280, 361, 364(NW), 370(NW), 497.

Psychology 110, 240, 250, 260, 315, 320, 330.

Sociology 101(MNS), 102(MNS), 224, 225, 230, 240, 260, 265, 270(MNS), 300, 310, 322(NW), 327, 343(NW), 370(NW).

**Social Science Category 2**

Communication 211, 217.

Honors 301.

Human Development 261, 265, 367, 372.

Natural Resources 170, 372.

Political Science 354, 356.

Sociology 308, 315, 328, 357, 359, 366, 368.

Women's Studies 105.

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

4. **Technology and Contemporary Issues.** 3 credits required, offered only at junior and senior level. We recommend that you complete the natural science component before meeting this requirement.

Choose one of these:

Anthropology 373.

Biology 304, 327.

Education 384.

English 391.

Geography 375.

History 393, 394.

Honors 375.

Human Development 381.

Medical Technology 395.

Natural Resources 370, 395, 478.

Peace Studies 340.

Philosophy 327.

Political Science 304, 306.

Psychology 393.

Sociology 373.

Water 350.

Wildlife 320.

5. **Physical Education and Health Enhancement.\*\*** 4 credits required.

A. Take 2 credits in aerobics/activity (A/A) from the following:

Dance 103, 104, 105, 106, 203, 204, 205, 206, 211, 212, 227, 303, 304, 305, 306, 327, 403, 404, 405, 406.

General Physical Education 100 to 198 (labeled A/A in the timetable).

Physical Education 110, 231.

B. Take 2 credits in health enhancement from the following:

Food and Nutrition 151.

General Physical Education 143, 144, 145, 146, 147, 148, 149, 150, 151.

Health Education 104, 140.

Human Development 367 (counts for this category or social science area 2, but not both).

Physical Education 102.

Psychology 255, 290.

6. **Minimum Credits for Graduation.** To graduate, you must earn at least 124 credits in your major and approved electives. In certain majors, you'll need more than 124 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.

## 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. See note below.  
**Writing Emphasis (WE).** 6 credits required. English 101 and 102 or 150 are prerequisites to WE courses. We recommend that, after successfully completing freshman English, you take one WE course before completing 75 credits and one WE course after completing 75 credits. You must take at least one WE course outside your major. See the timetable to find out which courses we offer as WE. You may use WE courses simultaneously to fulfill electives, major requirements, or general degree requirements.  
 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. Six WE credits are required but they are NOT part of the GDR total.
  - B. **Communication.\*** 2 credits required; Communication 101.
  - C. **Mathematics\*/Foreign Language.\*** Choose one of these two options:
    - \* **Mathematics:** 0-6 credits required: Mathematics 100 plus 4 credits from Mathematics 101, 102, 106, 108, 109, 111, 355. See note below.
    - \* **Foreign Language:** 0-8 credits required: (in addition to placement into Mathematics 100) one year of college work in one of the following sequences:  
 Chinese 101-102(NW).  
 French 101-102.  
 German 101-102.  
 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. This policy begins with the new freshmen of fall 1989.

2. **Critical Thinking/Natural Science.\*\*** 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 on 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 or 101.

Geology 100, 104, 105.

Physics 100 or 101, 103, 104, 150, 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 course (beginning with freshmen entering in fall 1990 and transfer/re-entry students entering fall 1991 and after) designated minority studies (MNS). You may satisfy the minority studies requirement by taking any course 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 History 212 and 3 credits from 120, 130, 211, 379(MNS), 382(MNS), 385. The Music Department recommends History 211-212.

A. **History.\*\*** 6 credits required. History 105, 106, 107, 108, 120, 130(MNS), 211, 212, 330, 332, 334, 366, 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 humanities or social science.

- 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, 282, 283, 284(NW), 347(NW), 381, 382(NW), 383, 384, 385, 386, 387, 388(NW), 389.

Communication 121, 125, 171, 272, 355, 362, 363, 369.

Fashion/Interior Design 309, 310(NW), 329.

Honors 100, 150(NW).

International Studies 301.

Music 100, 102, 220, 221, 300 (NW when offered in Malaysia or Taiwan programs), 301, 304, 305, 320, 321, 323, 326, 329, 426, 427, 428(NW).

Theatre 105, 329, 351, 352, 361, 490.

### Humanities Area 2

Literature:

Comparative Literature 101, 102, 317.

English 103, 106, 108, 170, 200, 203, 211, 212, 213, 214, 280(NW), 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, 378, 382, 383.  
 French 340, 341, 342, 350, 355, 360, 370, 493.  
 German 340, 355, 360, 370, 441, 442, 493.  
 Honors 100, 150(NW).  
 Russian 360(NW), 370(NW), 493(NW).  
 Spanish 340, 341, 342, 353, 354, 449, 450, 493.  
 Theatre 213, 215, 313.

**Humanities Area 3**

Philosophy, political theory, and religious studies:

Honors 100, 150(NW).  
 Philosophy 100, 101, 102, 104, 105(NW), 121, 217, 218, 220, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 315, 320, 329, 330, 331(NW), 332, 335(NW), 337(NW), 338(NW), 340, 380, 381(NW).  
 Political Science 391, 392, 393, 394.  
 Religious Studies 100(NW), 101, 102(MNS), 105(NW), 301, 302, 303, 304, 305(NW), 310, 311(MNS), 315, 316(MNS), 321, 330, 331.

**Humanities Area 4**

Civilization, area studies, and interdisciplinary courses:

Foreign Language 381.  
 French 381.  
 German 381.  
 Honors 100, 150(NW).  
 International Studies 100, 101(NW), 103, 104, 201, 202, 300, 302.  
 Russian 381(NW).  
 Spanish 381, 382.  
 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 physical education/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), 120(NW), 250(NW), 295(NW), 310(NW), 320(NW), 322(NW), 330(NW), 334, 335(NW), 336(NW), 337(NW), 338(NW), 339(NW), 343(NW), 370(NW), 380(NW), 395(NW).  
 Economics 100, 210, 211, 311, 328, 345.  
 Geography 110(NW), 113(NW), 120(NW), 211,

226, 270, 272, 300(NW), 301(NW), 302(NW), 327(NW), 328, 329(NW), 330(NW), 340, 368, 369, 373, 374.  
 Honors 301.  
 Political Science 101, 201, 202(MNS), 206(NW), 212, 242, 250, 280, 361, 364(NW), 370(NW), 497.  
 Psychology 110, 240, 250, 260, 315, 320, 330.  
 Sociology 101(MNS), 102(MNS), 224, 225, 230, 240, 260, 265, 270(MNS), 300, 310, 322(NW), 327, 343(NW), 370(NW).

**Social Science Category 2**

Communication 211, 217.  
 Honors 301.  
 Human Development 261, 265, 367, 372.  
 Natural Resources 170, 372.  
 Political Science 354, 356.  
 Sociology 308, 315, 328, 357, 359, 366, 368.  
 Women's Studies 105.

4. **Technology and Contemporary Issues.** 0 credits required.
5. **Physical Education and Health Enhancement.\*\*** 4 credits required.
- A. Take 2 credits in aerobics/activity (A/A) from the following:  
 Dance 103, 104, 105, 106, 203, 204, 205, 206, 211, 212, 227, 303, 304, 305, 306, 327, 403, 404, 405, 406.  
 General Physical Education 100-198 (labeled A/A in the timetable).  
 Physical Education 110, 231.
- B. Take 2 credits in health enhancement from the following:  
 Food and Nutrition 151.  
 General Physical Education 143, 144, 145, 146, 147, 148, 149, 150, 151.  
 Health Education 104, 140.  
 Human Development 367 (counts for this category or social science area 2, but not both).  
 Physical Education 102.  
 Psychology 255, 290.
6. **Minimum Credits for Graduation.** To graduate, you must earn at least 124 credits in your major and approved electives. In certain majors, you'll need more than 124 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.

# The 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 are 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 62 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**: Minimum of 12 credits and maximum of 16.
    - 1) **Mathematics**: Minimum of 2 credits from the following courses: Mathematics 100 or 105, 101 or 106, 102, 108, 109, 111 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, 102, 109, 111 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 on 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 and 115, 116.
      - Geography 100 or 101.
      - Geology 100, 104, 105.
      - Physics 100 or 101, 103, 104, 150, 250.
  - b. **History**, minimum of 3 credits from the following: History 105, 106, 107, 108, 120, 130(MNS), 211, 212, 330, 332, 334, 366, 373.
  - c. **Humanities**, minimum of 9 credits and maximum of 15. Select courses from at least two of the following areas, but no more than 6 credits in the fine arts (art, communication, dance, drama, 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, drama, music**: Art 181, 282, 283, 284(NW), 347(NW), 381, 382(NW), 383, 384, 385, 386, 387, 388(NW), 389. Communication 121, 125, 171, 272, 355, 362, 363, 369. Fashion and Interior Design 309, 310(NW), 329. Honors 100, 150. International Studies 301. Music 100, 102, 220, 221, 300, 301, 304, 305, 320, 321, 323, 326, 329, 426, 427, 428(NW). Theatre 105, 329, 351, 352, 490.
    - 2) **Humanities Area 2: Literature**: Comparative Literature 101, 102, 317. English 103, 106, 108, 170, 200, 203, 211, 212, 213, 214, 280(NW), 281(NW), 282(MNS), 283, 285, 288, 289, 303, 308, 310, 311, 312, 313a, 313b, 314, 319, 329, 330, 333, 334, 336, 361, 362, 363, 364, 366, 378, 382, 383. French 340, 341, 342, 350, 355, 360, 370, 493. German 340, 355, 360, 370, 441, 442, 493. Honors 100, 150(NW). Russian 360(NW), 370(NW), 493(NW). Spanish 340, 341, 342, 353, 354, 449, 450, 493. Theatre 213, 215, 313.
- 3) **Humanities Area 3: Philosophy, political theory, and religious studies**: Honors 100, 150(NW). Philosophy 100, 101, 102, 104, 105(NW), 121, 217, 218, 220, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 315, 320, 330, 331(NW), 332, 335(NW), 337(NW), 338(NW), 340, 380, 381(NW). Political Science 391, 392, 393, 394. Religious Studies 100(NW), 101, 102(MNS), 105(NW), 301, 302, 304, 305(NW), 310, 311(MNS), 315, 316(MNS), 321, 330, 331.
- 4) **Humanities Area 4: Civilization, area studies, and interdisciplinary courses**: Foreign Language 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, 331, 333, 337(NW), 338(NW), 343(NW), 344(NW), 345(NW), 346(NW), 347(NW), 348(NW), 349(NW), 350(NW), 351(NW), 352(NW), 377, 378, 379(MNS), 382(MNS), 383, 385, 388(MNS), 392. (Note that History 379, 382, and 385 meet the Wisconsin Department of Public Instruction's human relations requirement for teacher certification.) Honors 100, 150(NW). International Studies 100, 101(NW), 103, 104, 201, 202, 300, 302. Russian 381. Spanish 381, 382. Women's Studies 300, 320(MNS).
- c. **Social Science**, Minimum of 9 credits and maximum of 15. 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), 120(NW), 250(NW), 295(NW), 310(NW), 320(NW), 322(NW), 330(NW), 334, 335(NW), 336(NW), 337(NW), 338(NW), 339(NW), 343(NW), 370(NW), 380(NW), 395(NW). Economics 100, 210, 211, 311, 328, 345. Geography 110(NW), 113(NW), 120(NW), 211, 226, 270, 272, 300(NW), 301(NW), 302(NW), 327(NW), 328, 329(NW), 330(NW), 340, 368, 369, 373, 374. Honors 301. Political Science 101, 201, 202(MNS), 206(NW), 212, 242, 250, 280, 361, 364(NW), 370(NW), 497. Psychology 110, 240, 250, 260, 315, 320, 330. Sociology 101(MNS), 102(MNS), 224, 225, 230, 240, 260, 265, 270(MNS), 300, 310, 322(NW), 327, 343(NW), 370(NW).
  - 2) **Social Science Category 2**: Communication 211, 217. Honors 301. Human Development 261, 265, 367, 372. Natural Resources 170, 372.



Political Science 354, 356.  
Sociology 308, 315, 328, 357, 359, 366, 368.  
Women's Studies 105.

4. **Physical Education: 2 credits.**

a. **Aerobics/Activity:**

Dance 103, 104, 105, 106, 203, 204, 205, 206, 211, 212, 227, 303, 304, 305, 306, 327, 403, 404, 405, 406.  
General Physical Education 100 to 198 (labeled A/A in the timetable).  
Physical Education 110, 231.

b. **Health Enhancement:**

Food and Nutrition 151.  
General Physical Education 100 to 198 (labeled HE in the timetable).  
Health Education 104, 140.  
Human Development 367 (counts for HE or SS2, but not both).  
Physical Education 102.  
Psychology 255, 290.

5. Additional approved courses to total 62 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:**

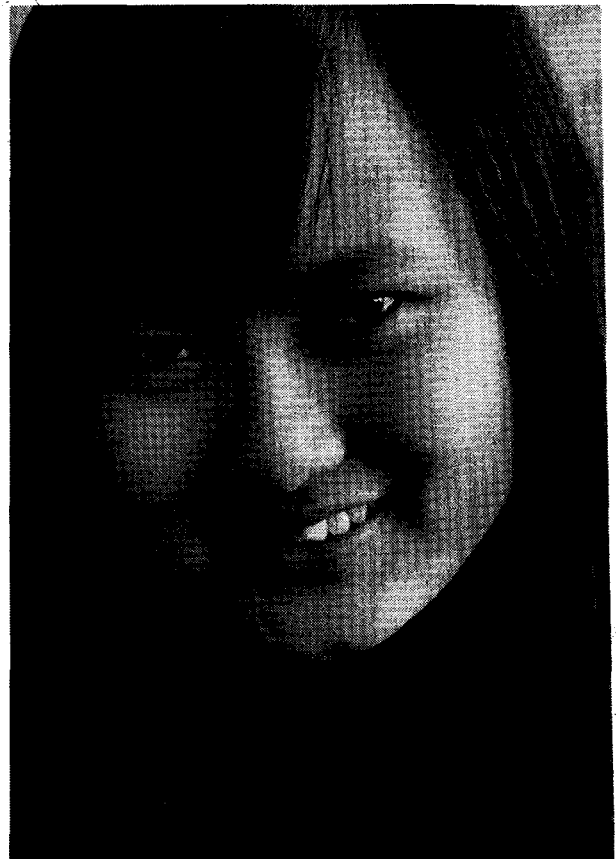
- 1) Foreign Language: 8 credits or test out.
- 2) Natural Science: At least one lab course in each of two disciplines.
- 3) History: 6 credits, from a two-semester sequence, as defined in the B.A. general degree requirements section of this catalog.
- 4) Humanities: You need at least one course in each 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) Technology and Contemporary Issues: 3 credits.
- 7) Writing Emphasis: 6 credits.
- 8) Non-Western Culture: 3 credits.
- 9) Earn at least 40 credits in courses numbered 300 and above.
- 10) Physical Education: Total of 4 credits (2 of aerobic activity and 2 of health enhancement).
- 11) Earn a total of 124 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 BS and BM/BFA degrees. Math 100 is a prerequisite to 101, 102, 109, 111 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) Technology and Contemporary Issues: 3 credits.
- 5) Writing Emphasis: 6 credits.
- 6) Non-Western Culture: 3 credits.
- 7) Earn at least 40 credits in courses numbered 300 and above.
- 8) Physical Education: Total of 4 credits (2 of aerobic activity and 2 of health enhancement).
- 9) Earn a total of 124 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 BS and BM/BFA degrees. Math 100 is a prerequisite to 101, 102, 109, 111 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) Writing Emphasis: 6 credits.
  - 7) Non-Western Culture: 3 credits.
  - 8) Earn at least 40 credits in courses numbered 300 and above.
  - 9) Physical Education: Total of 4 credits (2 of aerobic activity and 2 of health enhancement).
  - 10) Earn a total of 124 credits. Some majors require more.
  - 11) An approved major.
9. 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.



# College of Fine Arts and Communication (COFAC)

Gerard McKenna, Dean  
Patricia Koopman, Assistant Dean  
Room A202, Fine Arts Center  
Phone: (715) 346-4920

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 arts and communication as they relate to a changing world, with its dynamic and diverse cultures in all their unique aspects. 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."

## The Fine Arts and Communication Curriculum

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 eleven such universities in the country to carry this designation.

## The Fine Arts and Communication Major

Degrees offered are the bachelor of arts in art, music, or arts management; the bachelor of arts or bachelor of science in art education, communication, or theatre arts with options in dance, drama, and drama education; the bachelor of fine arts in visual communication or studio art, and in theatre arts with options in musical theatre,

dance, drama; and the bachelor of music with options in applied music, jazz, music education, music literature, and music theory/composition. 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 124 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.

## The Fine Arts and Communication Minor

Minors are available in art, art history, communication, dance, dance education, drama, drama education, and music.

## College Honors

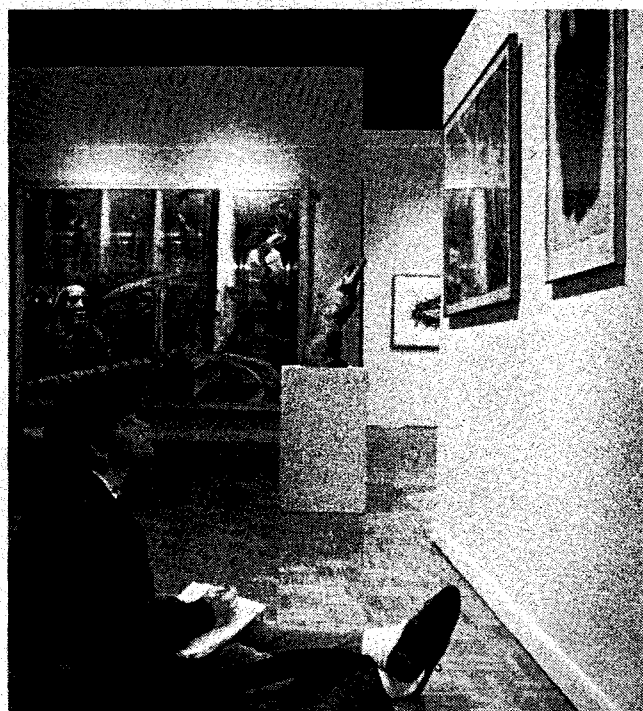
Undergraduate, full-time majors in the College of Fine Arts and Communication who have achieved a semester grade point average over 3.75 are awarded the Dean's Distinguished Achievement Award.

## 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 catalog for further details.



# The College of Letters and Science (L&S)

Justus F. Paul, Dean  
Eugene C. Johnson, Associate Dean  
William A. Johnson, Associate Dean  
Room 130, Collins Classroom Center  
Phone: (715) 346-4224

Through the 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; and
- Join a community of teachers, scholars, and students who strive for high standards of academic achievement.

## The L&S Curriculum

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 catalog.

## The L&S Major

In the College of Letters and Science, you may select from the following majors: anthropology (see page 34), biology, business administration, chemistry, computer information systems, economics, English, French, 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 physical education). To do this, list your major in the appropriate blank on your registration card. 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*.)

## The L&S Minor

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, environmental studies, French, geography, geology, German, gerontology, history, international studies, mathematics, microelectronics and microcomputer systems, museum techniques, natural science, philosophy, physics, political science, psychology, public administration and policy analysis, religious studies, Russian, small city analysis, social science, sociology, sociology and anthropology, Spanish, 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. To do this, in your junior year list your minor in the appropriate blank on your registration card. 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. 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:** If you plan to enter a dental college, take the basic pre dental education courses specified in the admissions requirements of the school you plan to attend. Some dental schools require you to take only two years of pre dental education. However, most students accepted have at least a bachelor's degree. All dental schools require candidates to take the Dental Admission Testing Program exam which is given twice each year, usually in October and April. Usually you must apply for the exam one month before taking it. 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 and Scientific Research:** Requirements vary from one specialization to another. However, if you plan to pursue professional or graduate study in engineering and research, you will need to concentrate on mathematics and the sciences. You will also probably need to study foreign language. Depending on your area of specialization, you may complete between one and four years of preparation for your profession at UW-Stevens Point. Your adviser will help you select courses in your bachelor of arts or bachelor of science program.

**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 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. A B+ average,
2. Above average scores on the New Medical College Admissions Test (New MCAT),
3. Relevant work experience,
4. Strong recommendations, and
5. A successful interview.

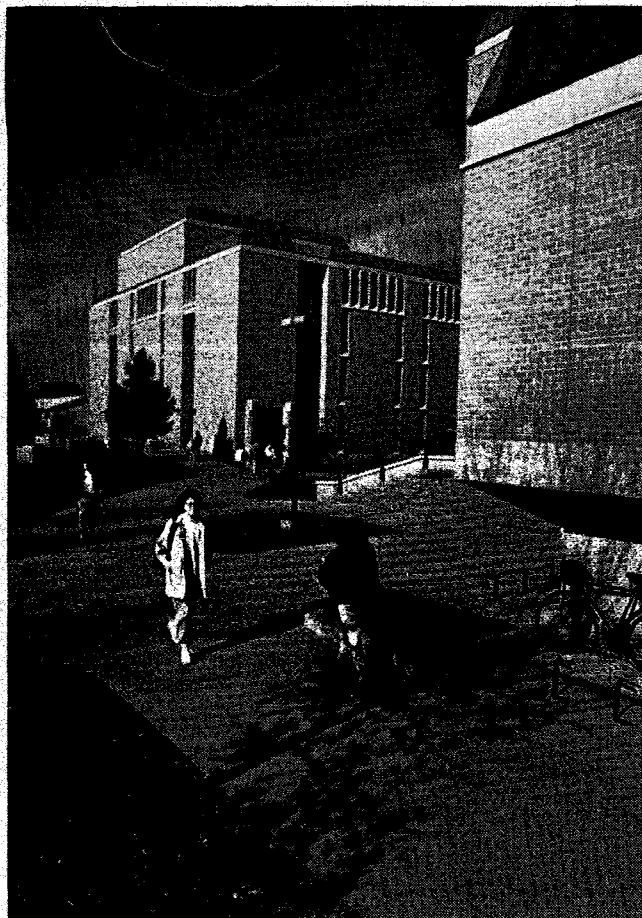
Pick up a registration form for the New MCAT from the premedical adviser. Since the New MCAT assumes you have taken college-level chemistry and physics, take this exam in April of your junior year. If you are not successful, you may take it a second time in September of your senior year. We at UW-Stevens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

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

**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.

### The Center for the Small City

At UW-Stevens Point you may minor in small city analysis. You may also attend national conferences on the small city and regional community, sponsored by the Center for the Small City. The center, a division of the College of Letters and Science, is affiliated with the UW-Stevens Point Foundation. It sponsors a wide range of programs which address the policies, problems and dynamics of communities of less than 50,000 people. While studying at UW-Stevens Point, you have a unique opportunity to benefit from this nationally-recognized center.



# College of Natural Resources (CNR)

Alan Haney, Dean  
 Richard J. Wilke, Associate Dean  
 Donald L. Mortenson, Senior Administrative Specialist  
 Room 136, College of Natural Resources Building  
 Phone: (715) 346-4617 or 346-2853

## The CNR Curriculum

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 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.

## The CNR Majors

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 forest management positions with public agencies or private industry. Select one of these five options: forest management, forest administration, urban forestry, forest recreation, or wood utilization and marketing. The Society of American Foresters fully accredits this program.

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

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

**Soil Science:** In this curriculum you concentrate on the basic sciences in order to understand soil properties and processes so that you can wisely manage land for any purpose. When you graduate, you have met the requirements for a soil scientist established by the Soil Conservation Society of America.

**Water Resources:** In water resources you select among options in fisheries, limnology, water chemistry, aquatic toxicology, groundwater management, watershed management, and water and wastewater treatment. 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.

## The CNR Minors

In the College of Natural Resources you may minor in camp and youth agency administration and programming, environmental communication, environmental education/interpretation, environmental law enforcement, forest recreation, forestry, international resource management, land use planning, outdoor education, resource management, soil science, water resources, or wildlife management.

## 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.

## The CNR Graduate Program

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 science, 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 107, CNR Building.

## CNR Summer Camp

Most CNR majors except paper science 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 this requirement either because of appropriate transfer courses or experience, follow the following procedure: send an appeal for a summer camp alternative to the dean by March 1 of your sophomore year if possible. Transfer students or others with extenuating circumstances should appeal no later than March 1 of their junior year. If you postpone an appeal until your senior year, you may have to delay graduation in order to complete the summer camp requirement.

The appeal package should include (a) the appeal letter with reasons and suggested alternative activities, (b) a copy of your degree progress report, and (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.



## The CNR Field Stations

### Central Wisconsin Environmental Station

At the environmental station you can gain valuable practical experience in environmental education and interpretation, while you earn college credit. Located 17 miles east of the UW-Stevens Point campus, the environmental station is sponsored by the University of Wisconsin-Stevens Point Foundation and the College of Natural Resources. It covers over 500 acres of diverse landscape, including such ecological communities as coniferous and deciduous forests, bogs, fields, ponds, and four lakes. It also has meeting rooms, dining facilities, housing, interpretive nature trails, and a complete waterfront.

For more information, call (715) 824-2428 or write the Central Wisconsin Environmental Station, 7290 Highway MM, Amherst Junction, WI 54407.

### Schmeeckle Reserve

The Schmeeckle Reserve is a 200-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 Schmeeckle 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 1,000 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 University of Wisconsin-Stevens Point Foundation and the College of Natural Resources.

For more information, phone (715) 453-4106 or write the Director of Treehaven, 2540 Pickerel Creek Road, Tomahawk, WI 54487.

## Teaching in CNR Fields

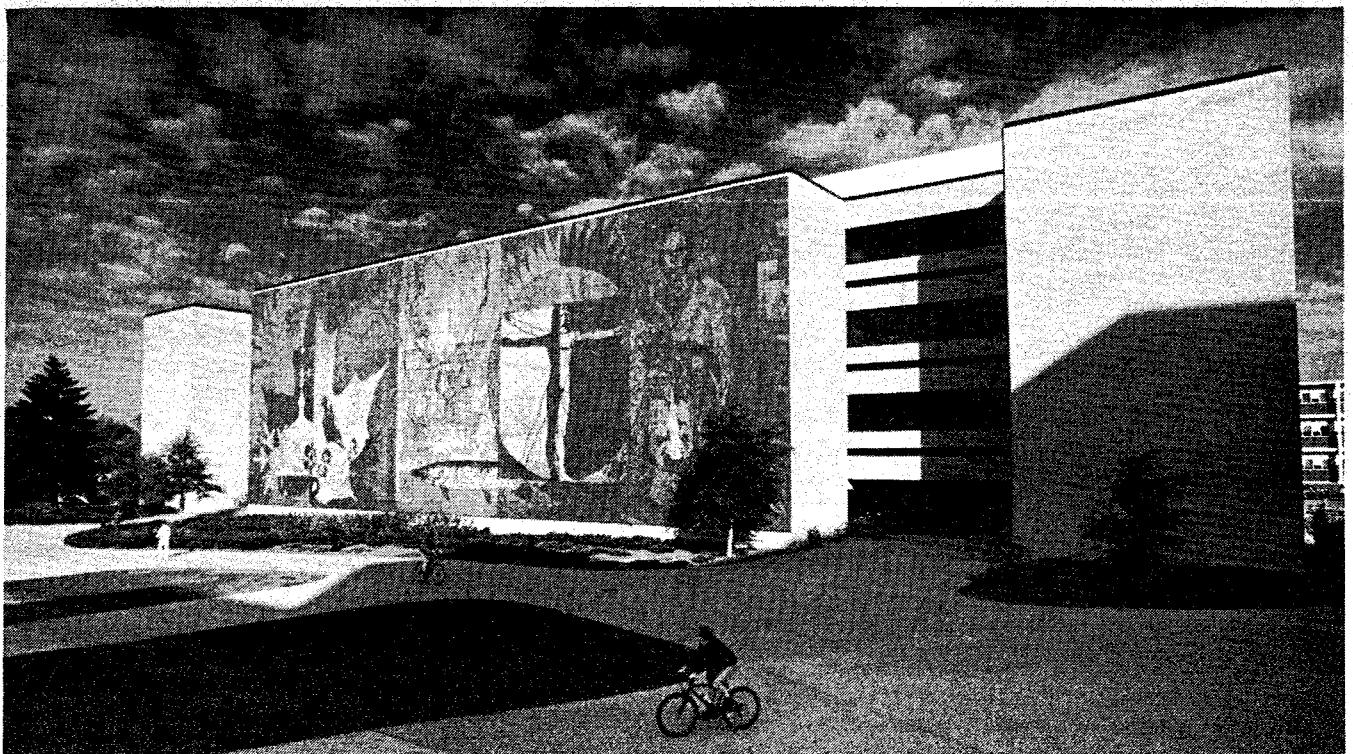
If you seek a certificate to teach at the secondary school level, with a major offered in the College of Natural Resources, you may either:

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.

## Graduation

To graduate from the College of Natural Resources, if you major in wildlife, forestry, or the land use planning option of the resource management major, you must achieve a grade point average of at least 2.25 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. If you major in any other subject, you must achieve a grade point average of at least 2.00 (2.75 to student teach).



# College of Professional Studies (CPS)

Joan North, Dean  
Room 112, College of Professional Studies Building  
Phone: (715) 346-3169

The College of Professional Studies consists of the School of Communicative Disorders, the School of Education, the School of Health, Physical Education, Recreation, and Athletics (HPERA), the School of Human Development and Nutritional Sciences, and the Division of Fashion and Interior Design.

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; and
- Work with teachers 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 of science degrees from the:

- School of Communicative Disorders with a major in communicative disorders;
- School of Education with a major in elementary education or with minors in learning disabilities, emotional disturbance, mental retardation, and early childhood: exceptional educational needs;
- School of Health, Physical Education, Recreation and Athletics with a major in health promotion/physical education which has options in K-12 physical education and health promotion/wellness and minors in coaching, health education, physical education for the exceptional individual, or safety and health protection, and an approved certification program in athletic training;
- School of Human Development and Nutritional Sciences with a major in family and consumer education, dietetics, food systems management, or early childhood education, or with a minor in food systems management, nutrition, home economics,

child and family studies, or early childhood education;

- Division of Fashion and Interior Design with majors in interior design with an emphasis in lighting and store design or fashion merchandising with special attention to retail/wholesale management, international merchandise management, and store planning; or
- Department of Medical Technology with a major in medical technology.

## College Honors

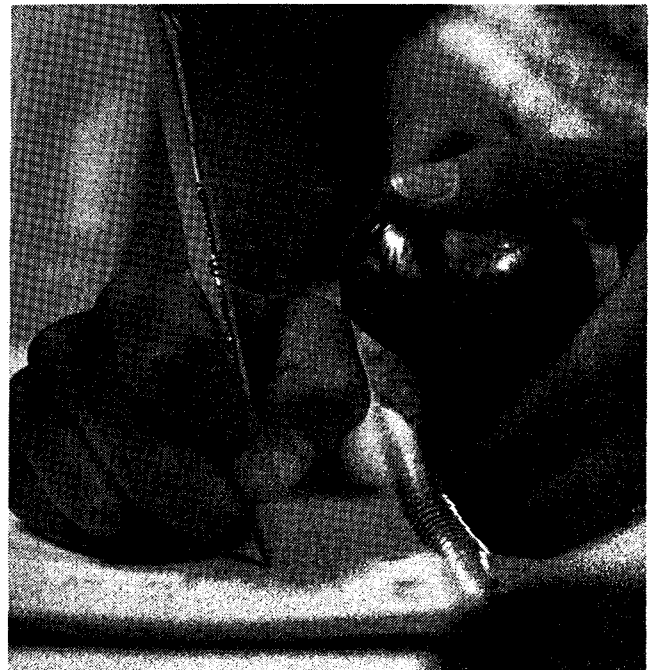
The College of Professional Studies Dean's List consists of undergraduate students who achieve a grade point average of above 3.75 the previous semester.

## 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),
- Educational administration through cooperative arrangements with UW-Madison and UW-Superior,
- Guidance counseling (master of science in education) through cooperative arrangements with UW-Oshkosh,
- 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), or
- Nutritional sciences (master of science).

For further information on these master's programs, see the graduate catalog.



# 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<sup>□</sup>, concentrations, options, areas of emphasis, and other significant courses. Topics that are teacher certifiable are marked with the (\*) symbol.

- Accounting (See *Managerial Accounting*)  
 Anthropology#<sup>□</sup>\*  
 Art#<sup>□</sup> (Areas of Emphasis) *Visual Communication: Graphic Design, Environmental Design, Design Photography, Computer Graphics. Studio: Painting, Drawing, Ceramics, Crafts, Sculpture, Metals*  
 Art# (Bachelor of Arts)  
 Art Education#\*  
 Art History<sup>□</sup>  
 Arts Management#  
 Astronomy  
 Athletic Training  
 Biology#<sup>□</sup>\* (Areas of Emphasis) *Aquatic Biology, Biobusiness, Biotechnology, Botany, Cytotechnology, Ecology/Environmental, Education, Marine Biology, Microbiology, Natural History, Zoo and Aquaria, Zoology (also see Preprofessional)*  
 Business Administration#<sup>□</sup> (Areas of Interest) *Entrepreneurship, Finance, Human Resource Management, Insurance, International Business, Marketing, Real Estate. (Concentrations) Fashion Merchandising, Forest Recreation, Technical Foreign Language--French/ German/ Spanish, Social Gerontology*  
 Camp and Youth Agency Administration and Programming<sup>□</sup>  
 Captive Wildlife Management<sup>□</sup>  
 Chemistry#<sup>□</sup>\*  
 Chemistry# (ACS certified)  
 Child and Family Studies<sup>□</sup>  
 Chinese  
 Coaching<sup>□</sup>\*  
 Colloquium  
 Communication#<sup>□</sup>\* (Areas of Emphasis) *Interpersonal, Organizational, Broadcasting, Film, Public Relations and Advertising, Journalism*  
 Communicative Disorders#\*  
 Comparative Literature<sup>□</sup>  
 Computer Information Systems#<sup>□</sup>\*  
 Computer Science<sup>□</sup>\*  
 Convocation  
 Cooperative Education  
 Dance\* (See *Theatre Arts*)  
 Dietetics# (Options) *Community Nutrition, General Dietetics*  
 Drama\* (see *Theatre Arts*)  
 Early Childhood Education#<sup>□</sup>\* (Options) *Teaching, Non-Teaching*  
 Earth Science<sup>□</sup>\*  
 Economics#<sup>□</sup>\*  
 Education, Elementary#\*  
 Education, Secondary Certifications\*  
 Education, Exceptional#<sup>□</sup>\* (Minors) *Early Childhood: Exceptional Educational Needs, Emotional Disturbance, Learning Disabilities, Mild-Moderate Mental Retardation. (Add-on Certifications) Multicategorical Special Education Teacher Preparation, Special Fields*  
 English#<sup>□</sup>\*  
 English as a Second Language\*  
 English for Elementary Education<sup>□</sup>\*  
 Environmental Communication<sup>□</sup>  
 Environmental Education for Elementary and Middle School<sup>□</sup>\*  
 Environmental Education/Interpretation<sup>□</sup>  
 Environmental Law Enforcement<sup>□</sup>  
 Environmental Studies<sup>□</sup>  
 Family and Consumer Education#\*  
 Fashion Merchandising# (Options) *Retail/Wholesale Management, International Merchandise Management, Store Planning*  
 Food Systems Management#<sup>□</sup>  
 Forest Recreation<sup>□</sup>  
 Forestry#<sup>□</sup> (Areas of Emphasis) *Administration, Management, Recreation, Urban, Wood Use and Marketing*  
 French#<sup>□</sup>\* *Cultural Studies Concentration*  
 Geography#<sup>□</sup>\* (Options) *Cartography, Physical Environment, Urban-Economics*  
 Geology<sup>□</sup>  
 German#<sup>□</sup>\* *Cultural Studies Concentration*  
 Gerontology<sup>□</sup>  
 Health Education<sup>□</sup>\*  
 Health Promotion/Physical Education#\* (Options) *Comprehensive Physical Education, Health Promotion/Wellness*  
 History#<sup>□</sup>\* (Areas of Emphasis) *European, Non-Western, United States. (Concentration) Minority & Ethnic Studies*  
 Home Economics<sup>□</sup>  
 Honors Program  
 Individually Planned Major#  
 Instructional Resources  
 Interior Design#  
 International Resource Management<sup>□</sup>  
 International Studies#<sup>□</sup>\* (Concentrations) *Asia, Europe, North America, Latin America, Middle East and Africa, Russia and Soviet Union*  
 Land Use Planning<sup>□</sup>  
 Lecture Forum  
 Managerial Accounting#  
 Mathematics#<sup>□</sup>\*  
 Mathematics, Applied<sup>□</sup>  
 Mathematics for Elementary Education<sup>□</sup>\*  
 Medical Technology#  
 Microelectronics & Microcomputer Systems<sup>□</sup>  
 Military Science (Army ROTC)<sup>□</sup>  
 Museum Techniques<sup>□</sup>  
 Music#\* (Options) *Applied, Education, Jazz, Literature, Theory/Composition*  
 Music# (Bachelor of Arts)  
 Music<sup>□</sup>  
 Musical Theatre (See *Theatre Arts*)  
 Natural Science#\* (Options) *Earth Science, Life Science, Physical Science*  
 Natural Science, Broad-field<sup>□</sup>  
 Nursing (Degree through UW-Eau Claire in cooperation with St. Joseph's Hospital-Marshfield & UW-SP)  
 Nutrition<sup>□</sup>  
 Outdoor Education<sup>□</sup>  
 Paper Science#  
 Peace Studies  
 Philosophy#<sup>□</sup>\* *Religious Studies Concentration*  
 Physical Education\* (See *Health Promotion/Physical Education*)  
 Physical Education for Exceptional Individual<sup>□</sup>\*  
 Physics#<sup>□</sup>\*  
 Political Science#<sup>□</sup>\* (Fields) *American Politics and Government, Public Policy and Administration, Political Theory, Comparative Politics, International Politics*  
 Preprofessional (Areas of Emphasis) *Prearchitecture, Prechiropractic, Pre dental, Pre-engineering, Prelaw, Premedical, Premortuary, Prenursing, Preoccupational Therapy, Preoptometry, Prepharmacy, Prephysical Therapy, Preveterinary*  
 Psychology#<sup>□</sup>\* (Area of Emphasis) *Human Services*  
 Public Administration & Policy Analysis#<sup>□</sup> (Areas of Emphasis) *Personnel Administration, Public Finance Administration, Public Planning, Public Policy Analysis, Resources & the Environment*  
 Religious Studies<sup>□</sup>\*  
 Resource Management#<sup>□</sup>\* (Options) *Environmental Education/Interpretation, General, Land Use Planning, Teacher Certification, Youth Programming & Camp Management*  
 Russian<sup>□</sup>\*  
 Safety and Health Protection<sup>□</sup>  
 Small City Analysis<sup>□</sup>  
 Social Science#<sup>□</sup>  
 Social Science, Broad-field#<sup>□</sup>\*  
 Social Science in Health<sup>□</sup>  
 Social Work<sup>□</sup> (Area of Emphasis) *Native Americans*  
 Sociology#<sup>□</sup>\* (Concentration) *Adult Life and Aging. (Areas of Emphasis) Deviance & Social Control, Family & Socialization, Social Psychology, Social Work, Urban & Community*  
 Sociology & Anthropology<sup>□</sup>  
 Soil Science#<sup>□</sup>  
 Spanish#<sup>□</sup>\* *Cultural Studies Concentration*  
 Technical Writing<sup>□</sup>  
 Theatre Arts (Options) *Dance#<sup>□</sup>\*, Drama#<sup>□</sup>\* (BFA Specializations--Acting, Design and Technology), Musical Theatre#*  
 Tribal Sovereignty<sup>□</sup>  
 Undecided/Undeclared  
 Water Resources#<sup>□</sup> (Options) *Fisheries, Limnology, Water & Wastewater Treatment, Water Chemistry, Watershed Management, Aquatic Toxicology, Groundwater*  
 Wildlife#<sup>□</sup>  
 Wellness (See *Health Promotion/Physical Education*)  
 Women's Studies<sup>□</sup>  
 Writing<sup>□</sup>

# 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 a 200-, 300- or 400-level class when you do not have the required class standing and/or haven't met the stated prerequisite, you must realize that you accept full responsibility for the grade you earn in that class. If you have a good reason to register for a class without having the necessary prerequisites, we recommend that you check with the department chair beforehand.

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
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)
CIS	Computer Information Systems
ECE	Early Childhood Education
FID	Fashion and Interior Design
GPE	General Physical Education
HP/W	Health Promotion/Wellness
PEX	Physical Education for the Exceptional Individual

(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
COFAC	College of Fine Arts and Communication
L&S	College of Letters and Science
CNR	College of Natural Resources
CPS	College of Professional Studies
HDNS	School of Human Development and Nutritional Sciences
HPERA	School of Health, Physical Education, Recreation, and Athletics

## 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
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
PE/AA	Physical Education Aerobic/Activity
PE/HE	Physical Education Health Enhancement
SS1	Social Science Category 1
SS2	Social Science Category 2
TCI	Technology and Contemporary Issues

## ACCOUNTING

See *Business and Economics*.

## AMERICAN STUDIES

See *International Studies*.

# Anthropology

(College of Letters and Science)

Robert Knowlton, Coordinator  
Room 424, College of Professional Studies Building  
Phone: (715) 346-2334

Faculty: Coppinger, John Moore, T. Johnson

**NOTE: New majors in anthropology will not be accepted until further notice. Contact the Office of the Dean, College of Letters and Science, for more information.**

### Anthropology Minor

Consists of a minimum of 18 credits in anthropology including: 101, 111, 250, 280, 450, and one course from 334, 335, or 339. Complete the minor with electives from anthropology.

### Anthropology Minor for Teacher Certification

Consists of 22 credits. Anthropology 101, 111, 250, 280, and 450 are required. Select one course from 334, 335, or 339. Complete the minor with electives from anthropology. Nine credits must be in courses numbered 300 or above.

### Sociology and Anthropology Minor

Consists of a minimum of 18 credits. Sociology 101, Anthropology 101, Sociology 350 OR Anthropology 450 are required. Additional credits are electives.

### Courses in Anthropology

**ANTH 100. Forum in Anthropology.** 1 cr. Lectures and discussions on current social issues or topics in anthropology. Subtitle will designate area. May be repeated for maximum of 3 credits with different subtitles. Two hrs per wk or equiv. Pass-Fail only.

**ANTH 101(NW). Introduction to Anthropology.** 3 cr. General introduction to the subdisciplines of anthropology; biological, cultural, linguistics, and archaeology; analysis of human cultural adaptations in various societies around the world. GDR:SS1

**ANTH 111. Human Evolution.** 3 cr. Human evolution, genetic diversity, and prehistoric cultural development. (An introductory course in biology is strongly recommended as preparation.)

**ANTH 120(NW). Introduction to Native American Cultures.** 3 cr. Introductory survey of selected Native American cultures. GDR:SS1

**ANTH 250(NW). Introduction to World Prehistory.** 3 cr. Development of culture from its beginnings to the historic period, as revealed by archaeological studies. Prereq: 101 or 111 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 295. Special Topics in Anthropology.** 1-3 cr. Subtitle will designate area. May be repeated for credit with different subtitle. Prereq: 3 cr in anthropology or sociology or cons instr. GDR:SS1 (NW certain subtitles only)

**ANTH 310(NW). Cultures Around the World.** 3 cr. Theories of human prehistory, language, and culture; ethnographic approach to cultures of several nonliterate folk, and urban-industrial societies. Credit may not be earned in both 310 and 101. GDR:SS1

**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 322(NW). (formerly 312) Culture and Personality.** 3 cr. How literate and nonliterate cultures and subcultures affect personality development. Credit may not be earned in both 322 and Sociology 322. GDR:SS1

**ANTH 330(NW). Anthropology of Politics.** 3 cr. Comparative approaches to aspects of power, social coordination, conflict and dispute settlement at various levels of cultural complexity. Prereq: 101 or Sociology 101 or cons instr. GDR:SS1

**ANTH 334. Peoples of Europe.** 3 cr. Ethnological survey; the cultural organization of European societies and the significance of social change. Prereq: 101 or 310 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 310 or cons instr. GDR:SS1

**ANTH 339(NW). Indians of North America.** 3 cr. Ethnological survey; cultural organization of North American Indian societies and significance of social change. Prereq: 101 or 310 or Sociology 101 or cons instr. GDR:SS1

**ANTH 340. Field and Laboratory Techniques in Archaeology.** 4-8 cr. Techniques, methods, and procedures of field and laboratory archaeology discussed and practiced in actual working conditions on archaeological excavation. Offered in summer only. Prereq: Cons instr.

**ANTH 342. Environmental Archaeology.** 3 cr. Examine the interrelationship between prehistoric human cultures and the environment. Prereq: 101 or cons instr.

**ANTH 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. Credit may not be earned in both 343 and Sociology 343. GDR:SS1

**ANTH 350. Cultural Ecology.** 3 cr. How cultures interact and adapt to their material and social environments. Prereq: 101 or Sociology 101 or cons instr.

**ANTH 360. Economic Anthropology.** 3 cr. Comparison of economic organizations and problems in primitive peasant societies. Prereq: 101 or Sociology 101 or cons instr.

**ANTH 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. Credit may not be earned in both 370 and Sociology 370. GDR:SS1

**ANTH 371. Native North American Cultural Change.** 3 cr. Sociocultural continuities and changes among selected native North American societies.

**ANTH 373. Technology and Contemporary Social Problems.** 3 cr. Examine social, cultural and personal changes resulting from developments in selected technologies. Subtitle will designate area. May NOT be repeated for credit with different subtitle. GDR:TCI BA BS

**ANTH 380. Anthropology of Health and Disease.** 3 cr. Anthropological approaches to the knowledge and understanding of health and disease in various cultures.

**ANTH 390. Seminar: Fields of Anthropology.** 2 or 3 cr. Theory and research in general or special areas of anthropology. Subtitle will designate area. May be taken for credit with different subtitle. Primarily for majors. Prereq: 9 cr in social sciences or cons instr.

**ANTH 393. Field Trip in Archaeology.** 1-3 cr. Direct observation of archaeological phenomena within geological and geographic context; required readings and field notebook. May be repeated with change in locale or topic. May not earn credit in Geography 393 or Geology 393 under same locale or topic.



**ANTH 395. Special Topics in Anthropology.** 1 to 3 cr. Subtitle will designate area to be examined. May be repeated for credit with different subtitle. GDR:SS1 (NW certain subtitles only)

**ANTH 450/650. Anthropological Theory.** 3 cr. The development of anthropology theories from the early 19th century to the present. Prereq: 101 or 111 or 9 credits in the social sciences.

**ANTH 499. Special Work.** 1-3 cr. Upperclass anthropology majors and minors may arrange for independent study with consent of the chair. Credit will be based on the scope of the project. May be repeated for maximum of 6 credits.

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*.

## **ARMY R.O.T.C.**

See *Military Science*.

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# **Art and Design**

(College of Fine Arts and Communication)

Rex Dorethy, Chair  
Room B-116, Fine Arts Center  
Phone: (715) 346-2669

**Faculty:** Ball, Bywaters, Dorethy, Erickson, Fabiano, Gary, Hagen, Koopman, Palombo, Pohlkamp, Shelby, D. Smith, Stowers.

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, teachers, and educated consumers of fine art and commercial imagery.

Education in the visual arts and design is different from other subjects. The arts bring a third dimension to the academic program of the university, that of 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

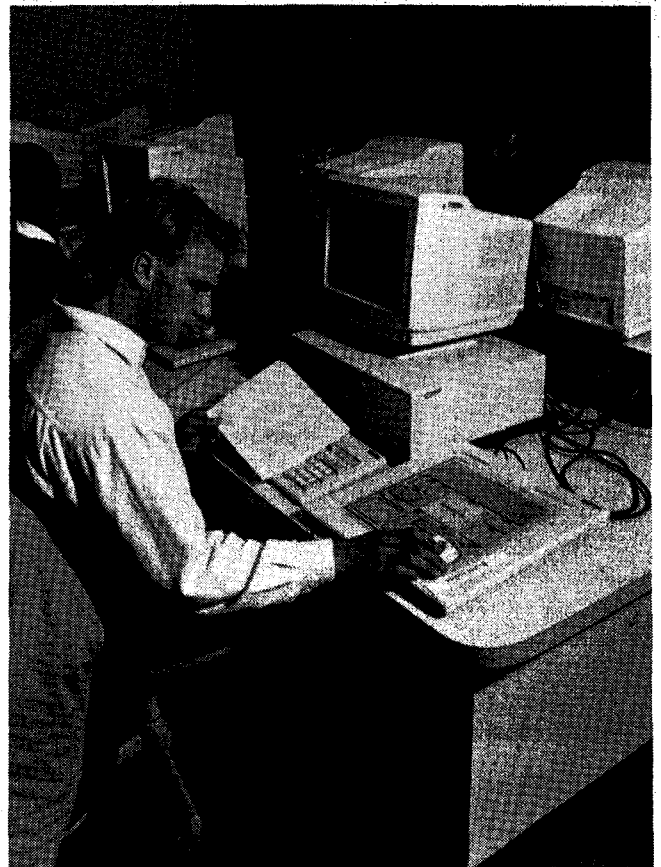
prepare you for careers in the visual arts, environmental design, graphic or advertising design, and teaching. Employment as a museum or art program director, crafts program director, studio artist, art administrator, and public school art teacher are among the many other possibilities.

### **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) programs or the art teaching (B.S. in art education) field, four years of English, one year of algebra, and two years of science in high school are recommended.

### **Curricula in Art and Design**

You have a variety of curricula from which to choose. Each curriculum is unique, yet there are many courses common to the programs prior to specialization. The major difference found among programs is the course work specially related to the career or area of emphasis. 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	Crafts
Graphic Design (commercial art)	Art History
Design Photography	Printmaking
Environmental Design	Sculpture
Computer Graphics	Metals
Art Education (teaching)	Prearchitecture

## 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, the Bachelor of Science, and the Bachelor of Fine Arts degrees. See the previous section of this catalog entitled *General Degree Requirements*.

## Entrance Standards and Portfolio Review

All art and design students must meet the academic entrance requirements listed in this catalog. If you do not, you must show evidence that you have the ability to achieve normal standards in order to remain in an art program. You do not have to submit an entrance portfolio before you begin an art program, but be prepared to present a portfolio of artwork for review and evaluation periodically throughout the program if requested.

The Art and Design Department has the following grade point average (GPA) retention standards and requires portfolio review for continuation in its programs:

**Art Core Requirement:** You need a 2.5 or higher GPA in the art core to maintain your status as an art major before you enter the specialty fields in art and design.

**Portfolio Review:** Portfolio review and approval is required before you can enroll in the B.F.A. (professional) program at the end of your sophomore year. You may be required to take additional courses before entering an emphasis area.

**B.F.A. Requirement:** In order to complete the B.F.A. program, you need a 2.5 GPA in the art core, portfolio review and approval at the end of your sophomore year, and a 2.75 or higher GPA in art courses beyond the art core.

**B.S. (Art Education) Requirement:** To complete the art education program, you need a 2.5 GPA in the art core and a 2.75 or higher GPA in art courses beyond the art core. School of Education requirements also apply.

**B.A. Requirement:** The basic art program requires a 2.5 or higher GPA.

If you are transferring art credits from other institutions, you must submit an art portfolio and grade transcripts to the department for evaluation.

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.

## Courses for Nonart Majors

Courses for the liberal arts student are also offered (see course descriptions and prerequisites). These courses for nonart majors provide you with the opportunity for personal enrichment through the visual arts.

## Exhibition Material, Visiting Lecturer Program, and the 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 Core

Consists of 21 credits for all art programs: Art 101, 102, 103, 104, 234, 282, 283.

## Art Major (B.A.)

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

1. Art core (see above).
2. Studio art electives, 24 credits. You must take 9 credits from one specialty area, but no more than 9 credits from any single area.
  - a. Drawing: 236, 336, 303, 403, 436.
  - b. Painting: 331, 332, 334, 335, 434, 435.
  - c. Ceramics: 361, 362, 461, 462.
  - d. Printmaking: 321, 322, 323, 421, 422.
  - e. Sculpture: 351, 352, 451, 452.
  - f. Metals: 371, 372, 471, 472.
  - g. Photography: 215, 320, 401.
  - h. Art history: 382, 383, 384, 385, 386, 387.
  - i. Crafts: 341, 342, 343, 344, 443.

## Art Major (B.S.) with Teacher Certification

Teacher certification is in the field of art education. The major consists of 55 credits including:

1. Art core (see above).
2. Art 321, 331, 341, 351, 371.
3. Art electives, 19 credits (6 must be art history).  
For teacher certification, you need Art Education 322, 331, 350 and 16 credits of 398; Education 101, 280, 351, 381, 386; Political Science 201; Sociology 305. You also need History 212 and one additional history course from History 120, 130, 211, 379, 382, 385; one humanities course that is literature; one biological science and one physical science course. You must have a GPA of 2.75 to student teach. See the *Education* section later in this catalog for more complete information.

## Art Major (B.F.A.)

This is the professional art program. The major consists of 76 credits in art and specified related courses as follows:

1. Art core (see above).

2. Thirty-three credits in one art specialty (see below).
3. Fifteen credits to support your specialty in art, art history, or related areas.
4. Six credits in an elective art area.
5. Senior exhibit, Art 491.

### Visual Communication Emphases

**Graphic Design Emphasis:** Art core; plus Art 201, 202, 207, 236, 250, 300, 308, 309, 310, 311, 331, 410, 411; plus 6 credits in art history, and departmentally approved selections related to the specialty.\* Art 491 is required, plus art electives for 6 credits.

**Environmental Design Emphasis:** Art core; plus Art 201, 202, 206, 312, 313, 314, 386, 400, 415, 417, 418; plus 6 credits in art history, and departmentally approved selections related to the specialty.\* Art 491 is required, plus art electives for 6 credits. (For interior design, see *Fashion and Interior Design* later in this catalog.)

**Design Photography Emphasis:** Art core; plus Art 201, 202, 207, 236, 305, 315, 320, 401, 402, 404, 405; plus 6 credits in art history and departmentally approved selections related to the specialty.\* Art 491 is required, plus art electives for 6 credits.

**Computer Graphics Emphasis:** Art core; plus Art 201, 202, 207, 236, 305, 200, 250, 300, 350, 400, 450; plus 6 credits in art history, Computer Information Systems 102 and 110, and departmentally approved selections related to the specialty. Art 491 is required, plus art electives for 6 credits.

### Studio Emphases

**Painting-Drawing Emphasis:** Art core, plus Art 201, 202, 236, 331, 303, 305, 321, 332, 334, 335, 336 or 434; plus 6 credits in art history and departmentally approved selections related to the specialty.\* Art 491 is required, plus art electives for 6 credits.

**Drawing-Printmaking Emphasis:** Art core; plus Art 201, 202, 236, 331, 321, 303, 322, 403, 421, 422, 336; plus 6 credits in art history and departmentally approved selections related to the specialty.\* Art 491 is required, plus art electives for 6 credits.

**Ceramics-Crafts Emphasis:** Art core; plus Art 201, 202, 236, 341, 343, 351, 361, 371, 362 or 344, 463; plus 6 credits in art history and departmentally approved selections related to the specialty.\* Art 491 is required, plus art electives for 6 credits.

**Sculpture-Metals Emphasis:** Art core; plus Art 201, 202, 236 or 303, 361, 371, 351, 352, 372, 451, 452, 471; plus 6 credits in art history and departmentally approved selections related to the specialty.\* Art 491 is required, plus art electives for 6 credits.

(\*) *Computer and computer-graphics courses are recommended, especially in the design areas.*

If you elect the BFA program, we encourage you to enhance your specialty by selecting a variety of course groupings that will satisfy your special interests. The department chair or your adviser will help you prepare for the professional studio or design program, or art education teacher certification.

In certain cases, you can make substitutions with the permission of the department chair.

**Prearchitecture:** The prearchitecture program provides you with an approved preliminary program for the architecture field. Courses include Art 101, 102, 103, 282, 283, 331, 381, and 386; plus requirements in mathematics, 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.

### Art Minor

Consists of 21 credits:

1. Art 101 or Fashion/Interior Design 101; Art 102, 103.
2. Three of these: Art 106, 202, 321, 331, 334, 341, 343, 347, 351, 361, 371.
3. Art (History) 282, 283 or 381.

### Art History Minor

Consists of 21 credits:

1. Art 101, 102.
2. Art (History) 282, 283.
3. Three of these: Art (History) 382, 383, 384, 385, 386, 387, 388, 398K, 399K.

### Courses in Art and Design

Also see *Art Education*.

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

**ART 102. Design: Three-dimensional.** 3 cr. Fundamental design principles in art, structure and arrangement, using a variety of materials.

**ART 103. Basic Drawing.** 3 cr. Basic drawing using various materials and techniques with emphasis on visual perception and awareness.

**ART 104. Drawing.** 3 cr. Intermediate drawing using a variety of media and approaches emphasizing conceptual development and contemporary issues in art. Prereq: 103.

**ART 181. History and Appreciation of Art.** 3 cr. Themes and purpose of art; how art functions in society and influences the individual; the motivation of the artists who create it. Does not count toward art major; may not earn credit in both 181 and 381. GDR:HU1

**ART 200. Introduction to Computers in Art.** 3 cr. Explore the computer as a tool for graphic imaging and its possibilities in all facets of visual arts production. Prereq: 101, 103, basic computing; or cons instr.

**ART 201. Advanced Studio Design.** 3 cr. Apply design theory and concepts by investigating and using various media and materials. Prereq: 101, 102, or cons instr.

**ART 202. Color.** 3 cr. Color theory and practice in the perception, understanding, and use of color. Prereq: 101 or Fashion/Interior Design 101.

**ART 206. Technical Drawing.** 3 cr. Technical drawing skills in rendering three-dimensional objects with perspective, geometry, axonometric and oblique drawing. Prereq: 104.

**ART 207. Introduction to Design Typography.** 3 cr. Study of the technical and aesthetic decisions that are the responsibility of the graphic design specialist in typography. Prereq: Art core.

**ART 215. Photography. (formerly 315)** 3 cr. Introduction to photography as expressive art form. Develop photographic vision and technical proficiency. Student must furnish light meter and camera with adjustable aperture and focusing.

**ART 234. Painting.** 3 cr. Beginning painting. Prereq: 101, 103, 104, 202.

- ART 236. Life Drawing.** 3 cr. Drawing the human figure with attention to anatomy, using a variety of media. Prereq: 103.
- ART 250. Computer Images in Design.** 3 cr. Advanced computer graphics for graphic design. Typography and image development. Prereq: 207 or cons instr.
- ART 282. Survey of Art History I.** 3 cr. History of art in ancient and medieval cultures. Human aesthetic response recorded in the architecture, painting and sculpture of Egypt, Greece, Rome, and medieval Europe. Prereq: So st. GDR:HU1
- ART 283. Survey of Art History II.** 3 cr. History of art from the 15th century to the present. Human aesthetic response reflected in the architecture, sculpture, and painting of the western cultures. Prereq: So st or cons instr. GDR:HU1
- ART 300. Computer Graphic Design.** 3 cr. Graphic design imagery for the visual communications field using both illustration and print. Prereq: 250.
- 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 305. Airbrush.** 3 cr. Explore materials and techniques of airbrush painting to solve problems of painting, illustration, and design. Prereq: 101, 202, 334 or cons instr.
- ART 308. Introduction to Graphic Design.** 3 cr. Basic techniques for production of commercial graphics using visual imagery, media, and production processes.
- ART 309. Illustration.** 3 cr. Basic illustration techniques with emphasis on marker rendering, color pencil, and other illustration media used in the graphic design field. Prereq: Art core.
- ART 310. Advanced Illustration.** 3 cr. Technical and graphic illustration using special techniques and media for the graphic designer. Prereq: 309, or cons instr.
- ART 311. Advanced Graphic Design I.** 3 cr. Combines photographic, typographic, and rendered elements in applied professional and sequential problems, emphasizing design for print processes. Prereq: 308, 309.
- ART 312. Environmental Design I.** 3 cr. Introductory visual problem solving that relates to environmental design: terminology, representation, model-making, and prototypes. Prereq: Art core, 201, 202, and 206.
- ART 313. Environmental Design II.** 3 cr. Use of illustration and models as a means of exploring the built environment: design, presentations, and methods of communication for the environmental design profession. Prereq: 312 or cons instr.
- ART 314. Environmental Design Rendering.** 3 cr. Studio practice with professional environmental design techniques; presenting three-dimensional designs on a two-dimensional surface. Prereq: 201 or 313 or cons instr.
- ART 316. Product Design and Development.** 3 cr. Research, design, and develop objects for manufacture; includes drawings, renderings, and models or prototypes. May be repeated to 6 credits. Prereq: 313 and 314, or cons instr.
- ART 320. Photography II.** 3 cr. Introduction of commercial photography and further study of photo history; photography as an expressive art form; exploration of photographic vision, technical concerns, and aesthetic aspects of photography. 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: 103, 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: 103, 104.
- 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. Painting.** 3 cr. Contemporary and traditional techniques and problems in painting in a variety of media. Prereq: 234 or cons instr.
- ART 335. Painting.** 3 cr. Advanced problems in the oil medium and other contemporary media. Prereq: 334.
- ART 336. Life Drawing.** 3 cr. Continued study of human figure emphasizing experimental work. Prereq: 236.
- ART 341. Introduction to Ceramics and Craft Media.** 3 cr. Survey of craft media including clay and fibers surface design as an expressive art form. Emphasis on cultural knowledge of the media related to contemporary craft design. Prereq: Art core or cons instr.
- ART 342. Crafts.** 3 cr. Advanced problems of applied design in various craft activities. Prereq: 341.
- ART 343. Fiber Arts.** 3 cr. Introduction to surface and fiber design using off-loom techniques and structure, wet-media, felt-making and surface applied design development. Emphasis on knowledge of the media and cross-cultural understanding of fiber arts. Prereq: 101, 103, or cons instr.
- ART 344. Fiber Arts.** 3 cr. Advanced problems in fiber arts; techniques not covered in 343; individual development of content. Prereq: 343.
- ART 346. 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.
- ART 350. Computer Graphics II.** 3 cr. Advanced study in 3-D space manipulation emphasizing computer animation and concepts of solids modeling and 3-D vector graphics. Prereq: 200 or 250.
- ART 351. Introduction to Sculpture.** 3 cr. Basic study in sculptural processes and aesthetics of casting, modeling and fabrication. Prereq: 102, 103.
- ART 352. Mold Making and Metal Casting.** 3 cr. Introduction to various mold making and metal casting techniques with piece molds, flexible molds, lost wax and sand casting methods. May be repeated for up to 6 credits. Prereq: 351.
- ART 361. Ceramics.** 3 cr. Introduction to materials, techniques, and methods of constructing ceramic ware, glazing, firing, and kiln management. Prereq: 103.
- ART 362. Ceramics.** 3 cr. Advanced problems and techniques in ceramic art. Prereq: 361.
- ART 371. Exploration of Metal Techniques.** 3 cr. Introduction and exploration of foundation metal techniques focusing on traditional techniques and aesthetics. Prereq: 102, 103.
- ART 372. Introduction to Casting Techniques.** 3 cr. Introduction and further exploration of metal forming, fabrication, and aesthetics. Prereq: 371.
- ART 381. History of the Visual Arts.** 3 cr. Major periods, styles, artists, and problems of architecture, sculpture, and painting. Not open to Art majors to fulfill Art Department history requirements or to students who have had Art 282 or 283. GDR:HU1
- ART 382/582(NW). History of Latin American Art.** 3 cr. Survey of the visual arts of Latin America from prehistoric to contemporary times. GDR:HU1
- ART 383/583. History of 19th and 20th Century European Painting.** 3 cr. Survey of the development of modern European painting. GDR:HU1
- ART 384/584. History of American Painting to the End of WW II.** 3 cr. Survey from the colonial period to 1945. GDR:HU1
- ART 385/585. History of American Painting and Sculpture Since WW II.** 3 cr. Survey of recent American painting and sculpture; abstract expressionism to the present. GDR:HU1

**ART 386/586. History of Architecture and Design.** 3 cr. Survey of modern architecture and design in the 19th and 20th centuries. Prereq: 282 or 283 or 381. GDR:HU1

**ART 387/587. History of Classical Art.** 3 cr. Survey of the classical tradition with emphasis on its development in the Greek world. GDR:HU1

**ART 389/589. Italian Renaissance Art.** 3 cr. Historical survey of Italian architecture, painting, and sculpture from Giotto to Michelangelo. Prereq: 282, or 283, or 381, or cons instr. GDR:HU1

**ART 390. Economic Survival Techniques for the Professional Artist.** 3 cr. Fiscal and legal aspects of the field of professional art; survey of basic, sound business practices, production and marketing, advertising, competitive bidding and commissions, contracts, client development, etc. Prereq: Jr st as an art major or minor, or cons instr.

**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 consent of the chair and an appropriate faculty member. Credit will be based on the 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 400. Computer-Aided Design I.** 3 cr. CAD rendering emphasizing 2-D and 3-D space and form planning and organization in art and design fields. Prereq: Cons instr.

**ART 401. Photography III.** 3 cr. Learn to generate and intensify graphic communication through black and white photography. Develop individual projects of considerable depth and content under instructor's guidance. Student provides light meter, camera with adjustable aperture, time setting, and focusing. Prereq: 320 for art majors; cons instr for others.

**ART 402. Large Format Photography.** 3 cr. Advanced study in photography with large format cameras as instruments for expression and illustration; emphasis on the 4x5 camera and its characteristics. Prereq: 320.

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

**ART 404. Studio and Lighting Techniques.** 3 cr. Advanced study of personal and commercial photography with emphasis on controlled lighting techniques. Prereq: 320.

**ART 405. Commercial Photography.** 3 cr. Practical applications of photography to commercial art; historical perspective of commercial photography. Prereq: 320.

**ART 410. Advanced Graphic Design II.** 3 cr. Advanced design problems in process color. Study includes design for match and laser separated images. Produce comprehensive layouts, mechanicals and keylines. Prereq: 311.

**ART 411. Advanced Graphic Design III.** 3 cr. Advanced graphic design image development. Contracts for the designer, portfolio development, and presentation skills. Prereq: 410.

**ART 415. Structure in Environmental Design.** 3 cr. Basic concepts of environmental structure. Prereq: Art core and 206, or cons instr.

**ART 417. Environmental Design III.** 3 cr. Planning and design of unsheltered spaces and urban settings; advanced applications of technical drawing, rendering, and model-making skills. Prereq: 313 and 314, or cons instr.

**ART 418. Environmental Design IV.** 3 cr. Analysis and synthesis of the built environment and its surrounds. Research, design, and presentation handled as a final portfolio project. Prereq: Sr st and 417, or cons instr.

**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 communications art studies; consent of design faculty in art.

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

**ART 421. Printmaking (Advanced Intaglio).** 3 cr. Continued studies in intaglio: more advanced conceptual problems and development of a concise body of prints. May be repeated for up to 6 credits. Prereq: 321.

**ART 422. Printmaking (Advanced Lithography).** 3 cr. Continued studies in lithography: more advanced conceptual problems and development of a concise body of prints. May be repeated for up to 6 credits. Prereq: 322.

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

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

**ART 434. Painting.** 3 cr. Content determined by student and instructor, based on previous course work in painting. Prereq: 335.

**ART 435. Painting.** 3 cr. Senior semester professional experiences. Content determined by student and instructor. Prereq: 434.

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

**ART 443. Fiber Arts.** 3 cr. Senior semester. Content determined by student and instructor, based on previous experience in fiber arts. Prereq: 344.

**ART 450. Computer-Aided Design II.** 3 cr. Emphasis on 3-D space and form/solids modeling, with advanced CAD concepts. Prereq: 200, 400, or cons instr.

**ART 451. Life Modeling.** 3 cr. An introduction to modeling the figure through several techniques. Prereq: 351.

**ART 452. Techniques of Metals Fabrication.** 3 cr. Welding and other techniques of metal fabrication for sculpture. May be repeated for up to 6 credits. Prereq: 451.

**ART 461. Ceramics.** 3 cr. Content determined by student and instructor, based on previous course work in ceramics. Prereq: 362.

**ART 462. Ceramics.** 3 cr. Senior semester professional experiences. Content determined by student and instructor. Prereq: 362.

**ART 463. Ceramic Materials and Equipment.** 3 cr. Advanced technical working knowledge of the ceramics studio. Chemical clay and glaze components, studio setup and kiln building. May be repeated for up to 6 credits. Prereq: 461.

**ART 471. Surface Techniques in Metals.** 3 cr. Exploration of advanced surface enhancement focusing on traditional and contemporary techniques. Prereq: 371.

**ART 472. Advanced Metals Techniques.** 3 cr. Advanced contemporary techniques and aesthetics in metal work. May be repeated for up to 6 credits. Prereq: 471.

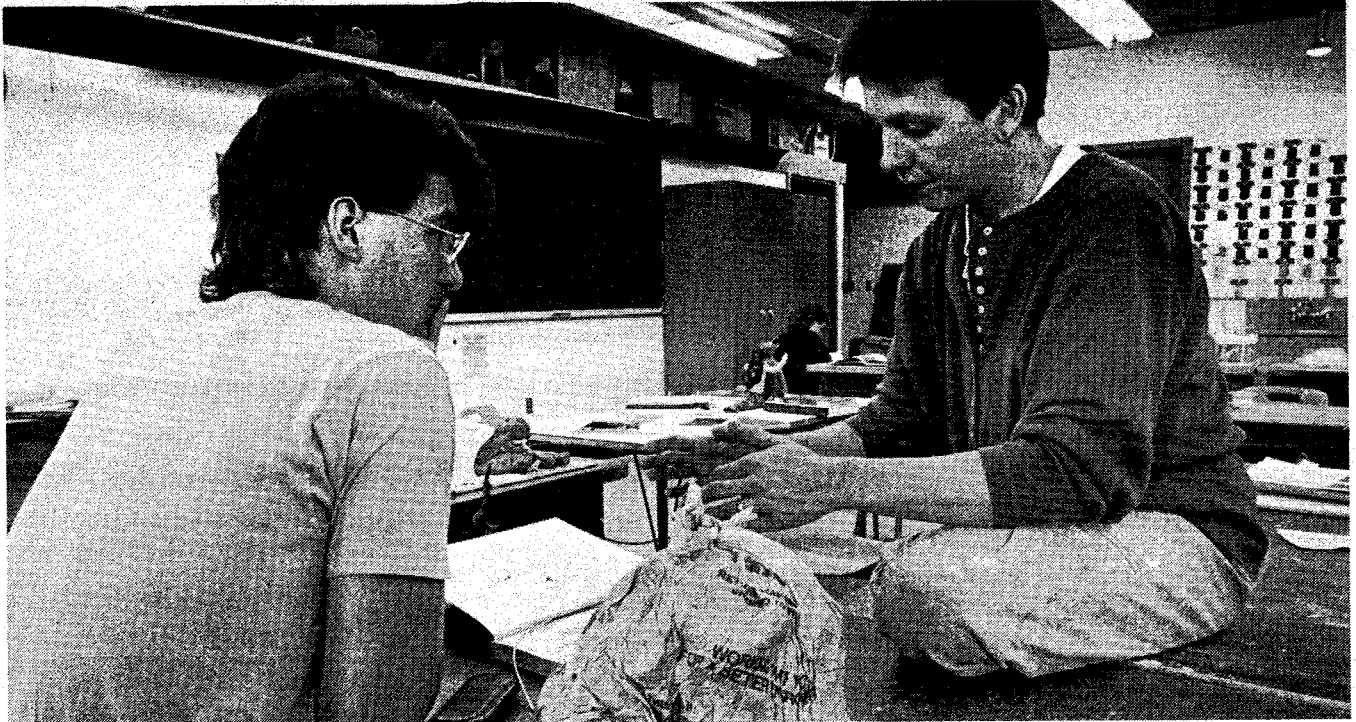
**ART 491. Senior Exhibition.** 1 cr. Student preparation, organization, and installation of an exhibition in the Edna Carlsten Gallery; faculty evaluations of exhibition. Prereq: Sr st in art major.

**ART 743. Fiber Arts.** 3 cr. Advanced problems in traditional and contemporary techniques in weaving, fabrics, dyes, and design. Content determined by student and instructor, based on previous work. Prereq: One yr of appropriate course work and cons instr.

**ART 751. Sculpture.** 3 cr. Content determined by student and instructor, based on previous work. Prereq: One yr of appropriate course work and cons instr.

**ART 761. Ceramics.** 3 cr. Glaze calculation, clay body formulation, kiln management; advanced construction techniques and skill





development; research project required. Prereq: One yr of appropriate course work and cons instr.

**ART 771. Art Metal.** 3 cr. Advanced studio involvement in historical and contemporary practices in metal, lapidary, and related media. Prereq: One yr of appropriate course work and cons instr.

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

### Courses in Art Education

**A ED 322. Techniques in the Elementary School: Art.** 2 cr. Methods, materials, and philosophy.

**A ED 331. Techniques in Secondary Education: Art.** 2 cr. Aims, methods, techniques, planning, organization, testing, etc.

**A ED 340/540. Curriculum in Art.** 2 cr. Seminar in planning and developing an individual or group art curriculum for grades K-12. Prereq: Art Education 398 or cons instr.

**A ED 350/550. Art for the Exceptional Child.** 3 cr. Ideas, materials, and methods of art for children and youth with special needs and/or special learning capabilities. Prereq: Education 351/551, or cons instr (for certified teachers).

**A ED 398. Student Teaching in Elementary and Secondary Art.** 8-16 cr. Observation and teaching in the elementary and secondary school art classroom under the guidance of cooperating teachers and university faculty. Prereq: 322, 331, 350 and DPI requirements.

For more course listings in art, 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

The continual growth and complexity of theaters, art centers, dance groups, etc. 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 will provide 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 appreciate the artists' needs and aspirations as well as see the interrelationship of the arts, communication skills, and business constraints that apply to the financing, production, promotion, 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.

To be accepted into the arts management program you must first be accepted into one of the visual or performing arts majors (art, music, theatre arts) through standard department criteria including interview, audition, and/or portfolio review.

In order to continue in the arts management program and be accepted for graduation, you must have a cumulative grade point average of 2.75 for all courses in the major.

### Arts Management Major (B.A.)

1. **Business**, 27 credits: Accounting 210, 211; Business 330, 340, 380, 384; Economics 210, 211, 345.
2. **Communication**, 21-27 credits: Communication 171, 230, 238, 272, 374; 3-6 credits from 151, 211, 217, 373; 3-6 credits from 330, 338.
3. **Creative arts options**: choose one.
  - a. *Applied art*, 21-27 credits: Art 101, 102, 103; 9-12 credits from 202, 321, 331, 334, 341, 343, 347, 351, 361, 371; 3-6 credits from 282, 283, 381.
  - b. *Art history*, 21-27 credits: Art 101, 102, 282, 283; 9-15 credits from 382, 383, 384, 385, 386, 387, 388, 389.



- c. *Dance*, 24 credits: Dance 101, 216, 301, 2 credits of 326/426; one course from 300, 302, 317; EITHER 105 (Ballet) and at least 11 credits from 103, 104, 203, 204, 303, 304, 403, 404 OR 103 (Modern Dance) and at least 11 credits from 105, 106, 205, 206, 305, 306, 405, 406.
- d. *Drama*, 27 credits: Drama 162, 215, 351, 375; 15 credits from Drama 140, 171, 213, 352, 242 or 243 or 3 credits from 126-426.
- e. *Music*, 24-26 credits: Music 110, 111, 112, 113; 6 credits from 160-181 and 260-281; 6-8 credits (4 of which must be in music history) from 210, 212, 220, 221, 320, 321, 323; and 4 credits from 140, 341, 342, 343.
4. **Arts Management Seminar**, 3 credits: Communication 349.
5. **Internship**, 3 credits: Communication 480.
6. **Electives**: 6-12 credits.

## ASIAN STUDIES

See *International Studies*.

## Astronomy

(College of Letters and Science)

Francis L. Schmitz, Chair of Physics and Astronomy  
Department  
Room B-109, Science Building  
Phone: (715) 346-2139

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

### NOTES:

1. You may not take both Astronomy 100 and 311 for credit.
2. If you take Astronomy 205 or 206, you may not take 100 or 311 for credit.
3. You may not earn credit in both Astronomy 105 and 205, or 106 and 206.

### Courses in Astronomy

**ASTR 100. Unveiling the Universe.** 3 cr. An encounter with man's ideas concerning the physical universe, from earth to intergalactic space. Two hrs lec, two 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. Three hrs lec, three hrs lab per wk. Prereq: Mathematics 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. Three hrs lec, three hrs lab per wk, some night observations. Prereq: Mathematics 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 made of telescopes and planetarium. Not open to students who have had 105 and 106, or 205 and 206. GDR:NS BS

**ASTR 370/570. 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 371/571. 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. Four hrs lab per wk, night observations. Prereq: Experience in, or preparation for, teaching science.

**ASTR 380. Selected Topics.** 1-3 cr. Topic will be announced in the timetable. 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*.

## Biology

(College of Letters and Science)

Virgil A. Thiesfeld, Chair  
Room 110, College of Natural Resources Building  
Phone: (715) 346-2159

**Faculty:** Bowers, Copes, Crowther, John D. Curtis, Freckmann, E. Gasque, P. Gasque, Hall, Harris, Heig, Hillier, Jansky, G. Knopf, LeGrande, Charles Long, Post, Roeder, Roller, Sepsenwol, Staszak, E. Stern, S. Taft, Temp, Thiesfeld, S. Van Horn, Charley White, J.R. Zach.

**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. If you complete the College of Natural Resources summer camp, you do not need to take 306.
  - b. One of the following: Biology 281, or 285, or 314, or 351.
  - c. An additional plant course selected from the following: Biology 330, 331, 335, 337, 338, 342, 344, 346, 351. (The advanced plant course must be at least 3 credits AND include laboratory.) For combinations of 1- and 2-credit courses you need to get approval from the department chair.
  - d. An additional animal course selected from the following: Biology 281, 285, 317, 360, 361, 362, 367, 370, 373, 374, 375, 376, 377, 378, 379, 381, 388; Water 387. (The advanced animal course must be at least 3 credits AND include laboratory.) For combinations of 1- and 2-credit courses you need to get approval from the department chair.
  - e. At least one biology course must be a writing emphasis (WE) course.

- f. Elective credits in biology.
2. Collateral courses:
- 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.)
  - Mathematics 111 or 120 or 355. (Exemption from general degree requirements for mathematics does not exempt biology majors from this requirement.)

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

To be approved for graduation, you need a minimum cumulative grade point average (GPA) of 2.00 in courses taken within the biology major (this includes collateral courses) regardless of declaration of academic bankruptcy. Transfer students meet this requirement by having at least a 2.00 GPA in the total major AND at least a 2.00 cumulative GPA in courses taken at Stevens Point for the biology major.

For teacher certification, see the section entitled *Education* for additional requirements.

No more than 6 credits of D work in biology courses will be counted toward the completion of the biology major. All grades of D or F are used to compute the cumulative GPA in the major. If a course is repeated, the last grade earned is the grade used in the GPA calculation. The department chair may allow exceptions on a conditional basis.

Check with the chair during your junior year to be certain you have the proper courses.

### Biology Minor

Consists of a minimum of 22 credits:

- Biology 130 and 160.
- Any two of the following categories:
  - Biology 210.
  - Biology 305.
  - Biology 281, or 285, or 314, or 351.
- Elective credits in biology.

To be approved for graduation with a minor in biology, you need a minimum cumulative grade point average of 2.00 in all courses taken within the biology minor regardless of a declaration of academic bankruptcy. Transfer students are subject to the conditions listed under the major. For teacher certification requirements, see the section entitled *Education*.

No more than 6 credits of D work in biology courses will be counted toward the completion of the biology minor. All grades of D or F are used to compute the cumulative GPA in the minor. If a course is repeated, the last grade earned is the grade used in the GPA calculation. The department chair may allow exceptions on a conditional basis.

### Areas of Emphasis

Include the courses specified for the major plus the following suggestions. You should discuss your selection of options and recommended courses with the Biology

Department Peer Advising/Professional Development 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 Mathematics 111 or 120, and 355; Physics 103 and 104; and a chemistry minor with Chemistry 365 as an elective.

Keep in mind that employers are looking for things other than course work when you apply for a job in the biological sciences or post-graduate training. The three most important things besides course work are: *communication skills, leadership skills, and in-field experience*. Check with a Biology Department Peer Advising or Professional Development 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; Mathematics 355; Physics 103, 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 recombinant DNA laboratory); chemistry minor with Chemistry 365 as elective; Physics 103 and 104; Mathematics 111 or 120.

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

**Cytotechnology:** See the department chair for complete details of these cooperative programs between UW-Stevens Point and the UW-Madison School of Cytotechnology and the Marshfield Clinic.

**Ecology/Environmental:** Recommended: 281 or 351; 333, 342, 360, 367, 372, Modules in Ecology; Chemistry 220; Mathematics 355; Soils 260; Geography 379; Computer Information Systems 102, 372. Supplementary: Geography 102, 103; Mathematics 111; Physics 103, 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 103 and 104, and Mathematics 111 or 120, and 355.

**Marine Biology:** Recommended: 281, 303, 314, 317, 333, 360, 374. A chemistry minor of the following courses is suggested: 105 and 106 (or 115 and 116), 248, 325, 326, 328, 329 or 365; Mathematics 355; Physics 103, 104.

**Microbiology:** Recommended: 314; 362 or 364; 333, 335, 338. Supplementary: 337, 360, 399; Mathematics 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). A minor in captive wildlife management is offered through the College of Natural Resources. Check that section of the catalog if you prefer to complete that minor.

**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.* See the Biology Department Peer Advising or Professional Development Center or the appropriate preprofessional adviser for suggested electives and requirements for specific schools.

**Prechiropractic:** Two years (60 credits) of college work. English 101, 102; Psychology 110; Chemistry 105 and 106 or 115 and 116, 220; Biology 160, 285.

**Predental:** Biology 285; Chemistry 114, 115, 116, 325, 326, 328; Mathematics 101 or 102; Physics 103, 104; additional helpful courses: Art 102, 103; Biology 210, 314, 317, 370; Psychology 260 or 315.

**Premedical:** Biology 210, 285; 314 or 317 or 370; Chemistry 115, 116, 248, 325, 326, 328; Physics 103, 104; Mathematics 111, 120, 121. Additional helpful courses: Biology 333, 373, 381; Chemistry 365.

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

**Preoptometry:** Normally, at least 90 credits including: Chemistry 115, 116, 220; Mathematics 111, 355; Physics 103, 104; additional helpful courses: Biology 285, 333, 370; Psychology 110, 260.

**Preveterinary:** Biology 160, 210; chemistry minor with Chemistry 365 as the elective; Physics 103 and 104; Mathematics 111 or 120, and 355; freshman English; 6 credits of social science and humanities; additional helpful courses include Biology 281, 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. Two hrs lec, three 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. Three hrs lec, three 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 approval of the 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. Three hrs lec, four 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. One hr lec, two 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. Three hrs lec, three hrs lab per wk. Additional two-hour test sections four 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 221. Career Development in the Biological Sciences.** 1 cr. Investigation of career and graduate school opportunities in the biological sciences. Student interests are assessed by using the Myers-Briggs Type Indicator, Motivated Abilities Pattern and Sigi+, career software program. Special career-related skills emphasized include resumes, informational interviews, job searching and interviewing skills, technical writing/publication and grant writing. Fields of biology to be surveyed are partly dependent on interests of enrolled students. One hr lec per wk. Prereq: Declared biology major or minor or cons instr.

**BIOL 275. Introductory Bird Study.** 2 cr. Identification, life histories, and external morphology of the common birds of Wisconsin. One hr lec, two hrs lab per wk. Not open to students majoring or minoring in biology or natural resources. Prereq: So st.

**BIOL 281. Animal Physiology.** 4 cr. Normal functions of organ systems in wild and domestic vertebrates and invertebrates. Three hrs lec, three hrs lab per wk. Prereq: 160. Credit cannot be counted for graduation or the 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. Three hrs lec, three hrs lab per wk. Prereq: 160; or 101 and Chemistry 101. Credit cannot be counted for graduation or the major if Biology 281 (or animal physiology) is counted. GDR:NS BS (PE majors only)

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

**BIOL 303/503. Introduction to Marine Biology.** 4 cr. Survey of marine environment; morphological and physiological adaptations in marine animals and plants. Field trip to marine coast. Three hrs lec, three hrs lab per wk. Prereq: 160 and cons instr.

**BIOL 304. Ecological Perspectives.** 3 cr. Introduction to "the way an ecologist thinks," emphasizing contemporary problems where human technology interacts with natural biological systems. Field trips to be arranged. Credit cannot be counted toward the biology major or minor. GDR:TCI BA BS

- 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. Three 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, emphasizing the relationships of fauna to vegetation composition and form. Two hrs lec, three hrs lab for eight wks. Local field trips.
- BIOL 309/509. Field Biology.** 3 cr. Field trips; collection, preparation, and identification of plants and animals. One hr lec, four hrs lab per wk. If 379 is also taken, credit may be counted only with prior approval of the department 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, three to five hrs lab per wk. Prereq: 210 or con reg.
- BIOL 311/511. Organic Evolution and Paleontology.** 3 cr. How life began, plants and animals of the past, genetic basis of evolution, process of natural selection, origin of species. Prereq: 100; or 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. Three hrs lec, three 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. Three hrs lec, three hrs lab per wk. Prereq: 160, Chemistry 106 or 116.
- BIOL 319. Aging.** 2 or 3 cr. Aging in higher animals with special reference to human senescence. Causes of aging and death; possibilities for increasing longevity. Third credit adds aging in invertebrates, plants, and specialized human tissues. Prereq: 130 or cons instr and 160 or 101.
- BIOL 320/520. Biological Technique.** 4 cr. Preparation of plant and animal tissues, organs, and entire organisms for microscopic and macroscopic study. Two hrs lec, four hrs lab per wk. Prereq: 101; or 130 and 160.
- 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. Six hrs lab per wk. Prereq: Cons instr.
- BIOL 326/526. Electron Microscope Techniques.** 4 cr. Fixing, embedding, microtomy, and staining of plant and animal tissues for electron microscopy; electron microscope use and basic photographic darkroom techniques. One hr lec, nine hrs lab per wk. Prereq: Chemistry 106 or 116; preparation in cellular biology, and cons instr.
- BIOL 327. Genetic Engineering: Implications and Ethics.** 3 cr. Basic scientific principles of recombinant DNA research. Applications in medicine and food production. Ethical assessment of research and applications. Also offered as Philosophy 327. GDR:TCI BA BS
- BIOL 330/530. Plant Morphology.** 4 cr. Form and structure of plants and plant parts, both vegetative and reproductive. Two hrs lec, four 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. Two hrs lec, four hrs lab per week. 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. Two hrs lec, four 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. Two hrs lec, four hrs lab per wk. Prereq: 130 or cons instr.
- BIOL 337/537. Plant Pathology.** 3 cr. Causes, symptoms, spread, and control of plant diseases. Two hrs lec, two hrs lab per wk. Prereq: 130.
- BIOL 338/538. Algology.** 3 cr. Taxonomy, morphology, and ecology of algae with emphasis on local species. Two hrs lec, two hrs lab per wk. Prereq: 130.
- BIOL 339/539. Bryology and Lichenology.** 2 cr. Taxonomy, morphology, and ecology of bryophytes and lichens with emphasis on local species. One hr lec, three hrs lab per wk. Prereq: 101 or 130.
- BIOL 342/542. Vascular Plant Taxonomy.** 3 or 4 cr. Survey of major groups with emphasis on identification, classification, and phylogeny of flowering plants. Two hrs lec and two or four 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. One hr lec, four 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. One hr lec, two 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. Two hrs lec, three 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. One hr lec, two and one-half 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. Three hrs lec, three hrs lab per wk. Prereq: 130; Chemistry 106, 116.
- BIOL 355/555. Plant Ecology.** 3 cr. Plant community structure, micro-environments, and succession; plant adaptations and response to environmental variation. Field labs in plant community sampling and microenvironmental analysis. Two hrs lec, three hrs lab per wk. Prereq: 305 or cons instr.
- BIOL 357/557. 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 360/560. Invertebrate Zoology.** 4 cr. Structure, function, classification, and life history of major groups of invertebrate animals (exclusive of insects and parasitic vertebrates). Two hrs lec, four hrs lab per week. 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. Two hrs lec, two hrs lab per wk. Prereq: 101 or 160.
- BIOL 362/562. 4 cr. Animal Parasitology.** 4 cr. Structure, classification, and life histories of animal parasites. Two hrs lec, four hrs lab per week. Prereq: 101 or 160.
- BIOL 367/567. General Entomology.** 4 cr. Structure, classification, and natural history of insects, with practice in collecting, mounting, and identification. Two hrs lec, four hrs lab per wk. Prereq: 101 or 160.
- BIOL 370/570. Comparative Vertebrate Anatomy.** 4 cr. Structure and evolutionary relationships of vertebrates. Two hrs lec, four hrs lab per week. 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. One-half hr lec, one hr lab per week per module. Credit may not be earned in both the module and the corresponding vertebrate course (374, 376, 377, 378).

**BIOL 373/573. Histology.** 4 cr. The microanatomy and related function of vertebrate (primary mammalian) organs, tissues, and cells. Two hrs lec, four hrs lab per wk. Prereq: 160; Chemistry 105 and 106, or 115 and 116. (Biology 281 is strongly recommended but not required.)

**BIOL 374/574. Ichthyology.** 4 cr. Classification and natural history of fishes, with emphasis on food, game, and forage fishes found in Wisconsin. Two hrs lec, four hrs lab per week. 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. Two hrs lec, three hrs lab per wk. Prereq: 374/574 and cons instr.

**BIOL 376/576. Herpetology.** 3 cr. Reptiles and amphibians; research methods and identification of species found in North America. Two hrs lec, three hrs lab per week. Prereq: 101 or 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. Two hrs lec, three hrs lab per week. Prereq: 101 or 160.

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

**BIOL 379/579. Field Zoology.** 3 cr. Field trips; collection, preparation, and identification of animals. One hr lec, four hrs lab per week. 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 or 281; Chemistry 106 or 116; organic chemistry is recommended, but not required.

**BIOL 384/584. Animals and Environment.** 1 cr. Morphological, physiological, and behavioral adaptations and responses to the physical environment. Prereq: 305 of cons instr.

**BIOL 385/585. Animal Feeding Ecology.** 1 cr. Environmental and biotic influences on quantity and quality of foods; food selection and niche relationships. Prereq: 305 or cons instr.

**BIOL 386/586. Ecology of Reproduction in Vertebrates.** 1 cr. Roles of environment, nutrition, and social factors in breeding, production, and survival of young. Prereq: 305 or cons instr.

**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. Two hrs lec, three 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 appropriate) not covered in regular courses. Categories include research; collection and identification of plants or animals; advanced readings; biological methods. Prereq: Consent of appropriate 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. Two hrs lec, three hrs lab per wk. Prereq: 333/533 or cons instr.

**BIOL 425/625. Problems in Quantitative Biology.** 2 cr. Selected problems in quantitative biology and independent projects involving analysis of data obtained in the student's field of interest. One hr lec, three hrs lab per week. Prereq: 130 and 160; Mathematics 120 recommended.

*NOTE: The courses below that are marked with a square (■) are part of the cytotechnology clinical practicum and are taught only at the hospital.*

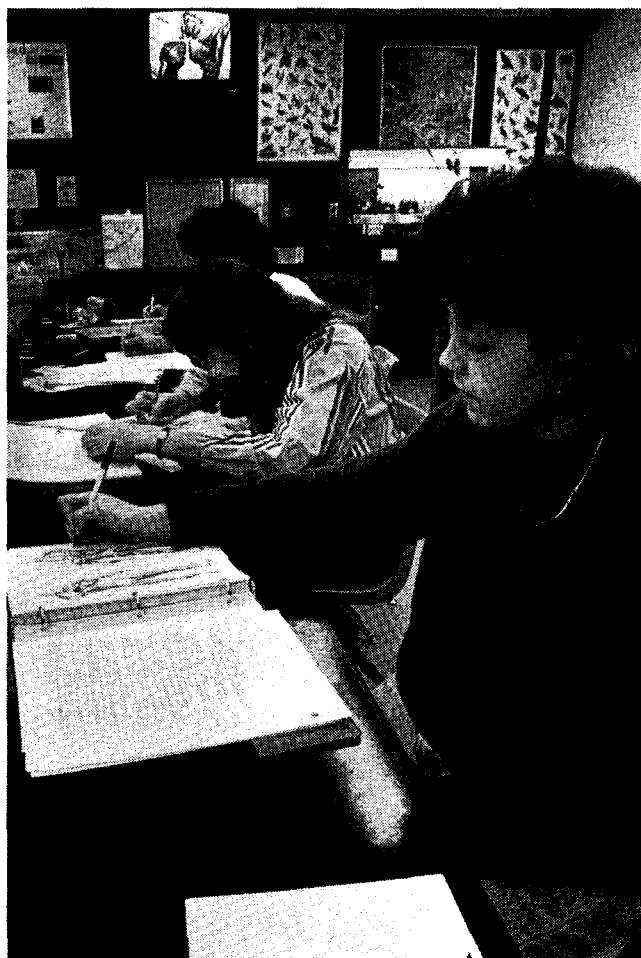
■**BIOL 450. Basic Cytology and Laboratory Courses.** 1 cr. A comprehensive review of cellular biology, the study of optical methods with emphasis on the light microscope, and the various techniques used in preparation and staining of specimens for cytologic and histologic study.

■**BIOL 452. Cytology of Female Genital System.** 8 cr. Study of anatomy, physiology and pathophysiology of the female genital tract and the corresponding cellular manifestations in normalcy, inflammation, atypia, neoplasia (benign and malignant), and cellular change due to therapy. Correlation of the didactic information with the microscopic cellular manifestations to provide a cytologic diagnosis.

■**BIOL 453. Cytology of Respiratory System.** 2 cr. Study of anatomy, physiology and pathophysiology of the respiratory system and the corresponding cellular manifestations which provide diagnostic information. Correlation of the didactic information with the microscopic cellular manifestations to provide a cytologic diagnosis.

■**BIOL 454. Cytology of the Gastrointestinal and Genitourinary Systems.** 4 cr. Study of anatomy, physiology, and pathophysiology of the gastrointestinal and genitourinary systems and the corresponding cellular manifestations which provide diagnostic information. Correlation of the didactic information with the microscopic cellular manifestations to provide a cytologic diagnosis.

■**BIOL 455. Cytology of Effusions, Miscellaneous Fluids and Breast.** 4 cr. Study of the anatomy, physiology, and pathophysiology of the body cavities, central nervous system, oral cavity, skin, and breast. The corresponding cellular manifestations which provide diagnostic information. Correlation of the didactic information with the microscopic cellular manifestations to provide a cytologic diagnosis.





■BIOL 470. **Advanced Laboratory Procedures.** 2 cr. Preparation of non-gynecologic cytology specimens, preparation of cytologic stains and solutions and an introduction to histologic preparatory techniques and special stains. Students rotate through all phases of diagnostic service work and laboratory functions.

■BIOL 471. **Fine Needle Aspiration Cytology.** 3 cr. Study of fine needle aspiration material from bone, breast, liver, lung, lymph nodes, pancreas, thyroid, and masses in the transabdominal cavity for correct cytopathologic diagnosis.

■BIOL 472. **Laboratory Management and Quality Control.** 3 cr. Covers the fundamentals of basic administrative functions: planning, organizing, supervising, and controlling, business management, record keeping, data processing, and laboratory safety. Quality control procedures necessary for obtaining, processing, diagnosing, and reporting cytologic specimens.

■BIOL 473. **Special Studies (Hematology and Cytogenetics).** 1 cr. The study of normal, benign, and malignant disease conditions of the hematopoietic system. The basic concepts of cytogenetics analysis of buccal smears, karyotyping normal cells and those with structural aberrations.

■BIOL 475. **Applied Cytology.** 4 cr. Rotation through all phases of diagnostic service work and laboratory functions. Microscopic examination of routine gynecologic and non-gynecologic specimens.

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. Prerequisites, lab and lec hrs will vary by topic. May be repeated for credit with different subtitles.

BIOL 499/699. **Biology Internship.** 1-6 cr. Supervised training programs in biology coordinated by faculty with private or public agencies. One credit for 2-4 wks (40 hrs per wk) of work. Additional requirements determined by instr. Credit determined by internship committee. May be repeated with different experience, but maximum of 6 credits count toward major. Prereq: Cons internship committee and instr.

BIOL 705. **Advanced Ecology.** 3 cr. Population and community ecology and measurements of the effect of environment on organisms. Two hrs lec, three hrs lab per week. Prereq: 205 or equiv.

BIOL 710. **Advanced Genetics.** 4 cr. Genetic analysis of selected organisms; transmission, function, and mutation of genes; radiation and genes; quantitative inheritance and population genetics. Two hrs lec, four hrs lab per wk. Prereq: 210 or equiv.

BIOL 711. **Physiological Mechanisms.** 4 cr. Respiration, photosynthesis, nitrogen metabolism, and pertinent metabolic pathways as related to current knowledge of cell structure and growth. Three hrs lec, two hrs lab per week. Prereq: 551 or cons instr.

BIOL 726. **Problem Analysis.** 2 cr. A specialist will direct investigations of principles and mechanics within his specialty. Lectures will alternate with reports from the participants. May be repeated as topic area changes. Prereq: Cons instr.

BIOL 728. **Integrated Biological Concepts.** 3 cr. Integrate biology and relate it to other natural sciences, social sciences, and humanities by exploring major biological concepts; laboratory and field work. Open to experienced teachers who have had an introductory biology course but are not specializing in a biological science.

BIOL 790. **Graduate Seminar.** 1 cr. Studies and discussions of biological problems.

BIOL 796. **Independent Study.** 1-3 cr. Planned reading to supplement the preparation and mechanics of the student's specialty. May be repeated 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.

## BOTANY

See *Biology*.

## BROADCASTING

See *Communication*.

## BROAD-FIELD SOCIAL SCIENCE

See *Social Science*.

## BUSINESS ADMINISTRATION

See *Business and Economics*.

# Business and Economics

(College of Letters and Science)

Richard Judy, Associate Dean and Head of the Division of Business and Economics

Room 477, Collins Classroom Center

Phone: (715) 346-2728

Student Advising Center

Room 304B, Collins Classroom Center

Phone: (715) 346-3391

Central Wisconsin Economic Research Bureau

Room 110, Collins Classroom Center

Phone: (715) 346-2537

North Central Wisconsin 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. Students who major or minor in business administration, economics or managerial accounting are encouraged to expand their classroom work through active participation in student and professional clubs, societies, associations, and volunteer work related to their area of study, thus further enhancing their career preparation.

## BUSINESS ADMINISTRATION

Faculty: Carter, Gillo, Haine, Judy, Meyers, Poutinen, Ryan, Witte, Executive-in-Residence, Scholar-in-Residence.

To declare or to be retained as a major or minor in business administration and to be approved for graduation, you must have a minimum 2.50 cumulative GPA in required courses (including collateral courses). This requirement applies to all courses taken within the major or minor regardless of any declaration of academic bankruptcy. If you are a transfer student with 56 or more credits, you must have at least a 2.50 GPA in courses that apply to the major or minor.



**Business Administration Major**

Consists of 46 credits in the following categories:

1. **Theoretical and conceptual requirements, 22 credits:** Accounting 210, 211; Business 280; Economics 210, 211; Mathematics 109 or equivalent; 3 credits of statistics from any department. You must complete these courses before taking any 300/400-level courses.
2. **Functional competence requirements, 15 credits:** Business 330, 340, 350, 360, 370.
3. **Area of interest in business administration:** minimum of 6 credits in ONE of the following interest areas.
  - a. Entrepreneurship: 381, 391.
  - b. Finance: 352, 353.
  - c. Human Resource Management: 384, 385, 386, 387.
  - d. Insurance: 343, 347.
  - e. International Business: 339, 498.
  - f. Marketing: 331, 336, 337, 338.
  - g. Real Estate: 344, 345.
4. **Integrative requirement, 3 credits:** Business 480. This is the final course in the business administration major and **MUST** be taken during the final semester of the major.
5. **Internships and independent study courses** are strongly recommended, but will not substitute for any course in 1-4 above.
6. **Outside major, or outside minor, or area of concentration:** To major in business administration, you must complete an outside major, or an outside minor (not including business administration), or an area of concentration of not less than 18 credits which has been approved by the Division of Business and Economics including the following:
  - a. **Fashion Merchandising:** Fashion and Interior Design 101, 131, 301, 303, 331; and 6 credits from Fashion and Interior Design 202, 233, 329, 395, 431.
  - b. **Forest Recreation:** Forestry 227, 330, 334, 394; Natural Resources 484. Plus 6-9 credits from Forestry 381, 385; Natural Resources 382, 383, 475, 474; Water 180.
  - c. **Technical Foreign Language – French:** French 211-212, 313, 314, 318, 331.
  - d. **Technical Foreign Language – German:** German 211-212, 313, 314, 318, 331.
  - e. **Technical Foreign Language – Spanish:** Spanish 211-212, 313, 314, 318, 331 or 382.
  - f. **Social Gerontology:** 18 credits from Sociology 260, 265, 308, 328 (or Economics 328), 366, 460, 467, 497 or Business/Economics 499.

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:** Accounting 210; Economics 210; Business 280.
2. **Electives:** A minimum of 15 credits in business administration courses at the 300-400 level not including Business 497, 498, 499.

**ECONOMICS**

Faculty: Christie, Cray, Jacobsen, Palmini, Rider, Sullivan, Weiser.

In order to declare a major or minor in economics, to be retained as a major or minor, and to be approved for graduation, you must have a minimum 2.25 cumulative GPA in required courses (2.75 to student teach) including collateral courses. This requirement applies to all courses taken within the major or minor regardless of any declaration of academic bankruptcy. If you are a transfer student, you must have at least a 2.25 GPA in courses that apply to the major or minor.

**Economics Major**

Consists of a minimum of 38 credits of economics courses plus a 15-credit area of emphasis in non-economics courses.

1. **Common required core, 26 credits.**
  - a. **Theoretical and institutional requirements, 18 credits:** Economics 210, 211, 350, 360, 361, 365.
  - b. **Quantitative requirement, 8 credits:** Economics 310 or an equivalent statistics course; Mathematics 109 or 120.
2. **Electives:** 12 credits of economics courses selected from one of the following recommended areas of interest.
  - a. **Economic science:** courses to help you understand, from the perspective of a social scientist, how a modern economy works and to develop the research skills of an economics scholar. Economics 305, 311, 342, 345, 374, 481, 3 credits of economics research experience.
  - b. **Economic policy:** courses that focus on the use of economic analysis for designing and evaluating public policy. Economics 311, 315, 320, 328, 342, 362, 440.
  - c. **Economics of finance:** courses to help you see how finance opportunities facing firms, nonprofit institutions, and state and local governments relate to the general economic and business system and to changes in economic policy. Economics 272, 311, 440; Business 352.
  - d. **Economics of business:** courses to help you, as a business manager, understand how changes in national and international economies can affect your firm's operations, and how you can use economic principles and tools to run your firm more efficiently. Economics 272, 305, 315, 320, 345, 346, 370.
  - e. **Economic development:** courses to help you understand the forces that influence the

economic development of a country or local region and how government policies can influence the pace and direction of economic development. Economics 311, 320, 342, 362, 374; Political Science 341.

- f. **International economics:** courses to help you understand the global economy in terms of the trade, finance and economic assistance relations among countries, their economic growth, and how countries compare in their economic systems. Economics 362, 367; at least two courses from Geography 270, History 319, Natural Resources 323, Political Science 280.
  - g. **Individually planned interest area:** permits you, with your adviser's assistance, to tailor a set of elective courses that meet your interests and educational and professional purposes. Any 12 credits of elective economics courses.
3. **Area of emphasis:** 15 credits in any university curricular area outside of economics, chosen in consultation with your economics adviser, that supplement your studies in economics and contribute to your professional goals. Courses that satisfy GDR requirements may be used.

We advise economics majors to take the following courses as additional electives: Accounting 210, 211; Computer Information Systems 101, 102; History 371, or 383; Philosophy 304.

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

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.

**Economics Minor**

Consists of 22 credits.

- 1. **Common required core,** 10 credits: Economics 210, 211, 310 or equivalent statistics course.
- 2. **Areas of emphasis,** 12 credits from any one of the following:
  - a. **Economic policy:** use of economic analysis for designing and evaluating public policy. Four courses from Economics 305, 311, 315, 328, 342, 362, 440, Political Science 397.
  - b. **Economics of finance:** how finance opportunities facing firms, nonprofit institutions, and state and local governments relate to the general economic and business system and to changes in economic policy. Required: Economics 360. Electives: 3 courses from Economics 272, 311, 365, 440, Business 352.
  - c. **Economics of business:** how changes in national and international economies will affect your firm's operations and how you can use economic principles and tools to run your firm more efficiently. Required: Economics 370.

Electives: 3 courses from Economics 272, 305, 315, 345, 360, 365.

- d. **Regional business development:** understand the forces that influence the economic development of a country or local region and how government policies can influence the pace and direction of economic development. Required: Economics 374. Electives: 3 courses from Economics 311, 320, 342, 362; one of Political Science 341, Natural Resources 474, or 484.
  - e. **International economic relations:** understand the global economy in terms of trade and finance relations that bind countries together, the economic growth of countries and how countries compare in their economic systems. Economics 362, 365, 367; and at least one course from Business 339, Foreign Language 318, Geography 270, History 319, International Studies 423, Natural Resources 323, Political Science 280 and 383.
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.

**MANAGERIAL ACCOUNTING**

Faculty: Dunigan, Gruetzmacher, Ivanauskas, Love, Tumer.

In order to declare a major in managerial accounting, you must have a cumulative GPA of 2.50 in required lower division courses (see below). To be retained as a major and to be approved for graduation you must have a minimum 2.50 cumulative GPA in required courses (including collateral courses). This requirement applies to all courses taken within the major regardless of any declaration of academic bankruptcy. If you are a transfer student with 56 or more credits, you must have at least a 2.50 GPA in the courses that apply to the major.

**Managerial Accounting Major**

Consists of 66 credits in the following categories:

- 1. **Required lower division courses,** 19 credits: Accounting 210, 220; Computer Information Systems 101; Economics 210, 211; English 251; Mathematics 109 or 120.
- 2. **Required basic core courses,** 19 credits: Accounting 370 or Business 370; Business 280, 330, 340, 350; Economics 310 or Mathematics 355.
- 3. **Required accounting courses,** 22 credits: Accounting 310, 311, 312, 320, 321, 330, 350, 400.
- 4. **Controlled electives,** 6 credits (two courses from the following): Accounting 331, 490; Business 341, 360.

**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. Prereq: 210 or cons instr.

**ACCT 220. Lotus 1-2-3 Practicum.** 1 cr. Accounting applications using Lotus 1-2-3. Prereq: 210; Computer Information Systems 101 or con reg.

**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, 220.

**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 mergers and parent-subsidiary relationships, foreign currency-denominated investments, SEC reporting, partnerships, and not-for-profit entities. 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. Prereq: 210, 220; Mathematics 109 or equiv.

**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. Income Tax Accounting I.** 3 cr. Federal income tax provisions that apply principally to individuals and sole proprietorship businesses. Special emphasis on tax research procedures and techniques plus case writing. Practical tax return preparation methods and techniques. Prereq: 210, 220.

**ACCT 331. Income Tax Accounting II.** 3 cr. Federal income tax provisions that apply to partnerships, corporations, estates and trusts, gift taxation and tax administration; related tax planning considerations and techniques. Emphasis on tax research and case writing. Practical tax return preparation methods and techniques. Prereq: 330

**ACCT 350. Auditing (formerly 313).** 3 cr. Critical examination of evidence supporting financial statements, internal control, working papers, statistical sampling, and professional standards. Prereq: 311, Economics 310 or Math 355; Computer Information Systems 101.

**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 Accounting 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: Senior managerial accounting major.

**ACCT 490. Special Topics in Managerial Accounting.** Cr arranged. Topic will be announced in the timetable.

**ACCT 497. Internship in Accounting.** Cr arranged. Supervised training work program in a cooperating agency or business. Credit will be determined by the division head upon recommendation of an accounting faculty member. Prereq: Cons div head.

**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 division head upon recommendation of managerial accounting faculty member. Prereq: Cons div head.

**ACCT 499/699. Special Work.** Upperclass or graduate students may arrange for independent study with consent of the division head. Credit will be based on the scope of the project. Prereq: Cons div head

## 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 280. 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 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.

**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 the student's 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.

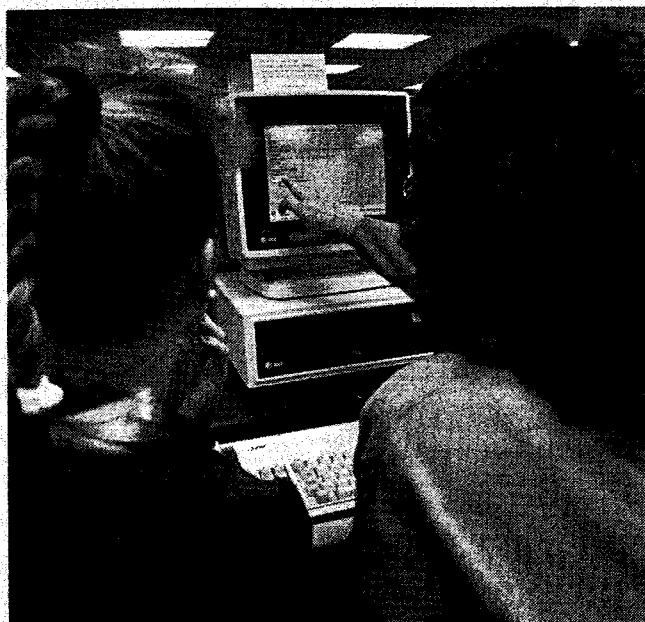
**BUS 344. Principles of Real Estate: Law and Management.** 3 cr. Real estate law as related to purchase and sale transactions, construction and development, and landlord-tenant relationships; survey of urban growth patterns, appraisal analysis, mortgage risk and real estate investment analysis. Prereq: 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: 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 in order to meet the needs of personal and institutional investors; selection of securities in order 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: 280; 3 cr in statistics; Mathematics 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 Accounting 370.

**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: 280 or cons instr.

**BUS 384. Personnel/Human Resource Management.** 3 cr. Integrates the operational activities of personnel management, such as job analysis, training, recruiting, appraisal and compensation with the perspective that people should be viewed as valuable human resources that need to be led and managed effectively. Prereq: 280.

**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: 280.

**BUS 386. Organizational Theory.** 3 cr. Analyzes the organization as a whole by concentrating on the relationships between technology, the environment, goals, objectives, strategy, and the nature and structure of the organization. Prereq: 280.

**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. Topic will be announced in the timetable.

**BUS 497. Internship in Business Administration.** Cr arranged. Supervised training work program in a cooperating agency or business. Credit will be determined by the division head upon recommendation of a business faculty member. Prereq: Cons div head.

**BUS 498. International Internship.** 1-12 cr. Supervised training work program in an international agency or business located outside the United States. Credit determined by division head upon recommendation of business administration faculty member. Prereq: Cons div head.

**BUS 499/699. Special Work.** Upperclass or graduate students may arrange for independent study with consent of the division head. Credit will be based on scope of the project. Prereq: Cons div head.

## 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. This course does not substitute for Economics 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 consent of the division head. Credit will be based on the scope of the project.

**ECON 305. Economics of Innovation and Productivity.** 3 cr. A study of the economic factors which influence the conversion of discoveries and inventions into products and processes, and the effects of this process on society.

**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. The Minitab computer package will be used. Prereq: Economics 210; Mathematics 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 315. Business and Government.** 3 cr. Role of government regulation vs. free markets. How government regulates business activity: anti-trust, economic regulation, social regulation, developing regulatory activities. Economic impacts of government regulation. Prereq: 211.

**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 Economics 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.

**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 Accounting 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, Mathematics 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 440. Monetary and Credit Policies.** 3 cr. The goals of national economic policies; conflicts among them and ways to resolve the conflicts. Functioning of money markets. Policy tools and targets of central bank operations. Management of public debt. International monetary issues. Prereq: 360.

**ECON 481. History of Economic Thought (formerly 381).** 3 cr. Economic thought from the mercantilists to recent writers. Prereq: 310, 350 and 361 or con reg.

**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 is 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 will be determined by the division head upon recommendation of an economics faculty member. Prereq: Cons div head.

**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 division head upon recommendation of an economics faculty member. Prereq: Cons div head.

**ECON 499/699. Special Work.** Upperclass or graduate students may arrange for independent study with consent of the division head. Credit will be based on the scope of the project. Prereq: Cons div head.

**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 Economics 717 and Education 717.

**ECON 756. Current Economic Problems.** 3 cr. National and international economic policies in the light of commonly accepted social goals, such as efficient use of resources, stability of income and employment, equitable distribution of income, decentralization of power, personal security, freedom of choice, and peaceful and mutually beneficial international relations.

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* for the minor or *Natural Resources—Resource Management* for the option called Youth Programming and Camp Management.

## CAPTIVE WILDLIFE MANAGEMENT

See *Natural Resources*.



**CARTOGRAPHY**

See *Geography*.

**CHEMICAL ENGINEERING**

Several courses for students planning to transfer to a program in chemical engineering have been approved by the faculty. For information, consult the chair of the Chemistry Department.

**Chemistry**

(College of Letters and Science)

Jack K. Reed, Chair  
Room D129A, Science Building  
Phone: (715) 346-2888

**Faculty:** Badger, Bondeson, Brummer, Chitharanjan, Droske, Farnsworth, Hladky, E. Johnson, Lang, Claudine Long, Radtke, Reed, D. Rogers, Showalter, Gary Shulfer, Sommers, K. Taft, Thurmaier, Voborsky, Wright, Zamis.

**Chemistry Major**

Consists of a minimum of 36 credits including:

1. Chemistry 248, 325 (see note 1), 326, 328, 335, 336, 338, 395, and 496; and at least 7 credits chosen from 329, 339, 346, 365, 387, 425, 435, 445, 455, 458, 468, 475. One chemistry course from this group must have laboratory work associated with it (329, 339, 346, 365, 445, 468, 475).
2. Collateral requirements include Mathematics 120, 121, 222; Physics 150, 250.

**Chemistry Major for Professional Certification by the American Chemical Society**

Consists of a minimum of 43 credits including:

1. Chemistry 248, 325 (see note 1), 326, 328, 329, 335, 336, 338, 339, 346, 395, 455, and 496; and at least 4 credits chosen from at least two of the following courses: 365, 387, 425, 435, 445, 458, 475, 499. (One chemistry course in this group must have laboratory work associated with it. One advanced course in another science may be substituted for one of the chemistry courses in this group with the approval of the chair.)
2. Collateral requirements include Mathematics 120, 121, 222; Physics 150, 250. A reading knowledge of a foreign language, especially German, is strongly recommended.

**Chemistry Major for Teacher Certification**

Consists of either major described above.

**Additional Requirements**

If you wish to major in chemistry, you should normally apply for acceptance at the end of your sophomore year. To be accepted you must have completed, or be enrolled in, Chemistry 326, Math 121, and Physics 150. You must also present a grade point average of 2.25, based on all grades earned in courses required in the major including the semester in which you apply. (Note: Acceptance is a prerequisite for enrollment in Chemistry 395.) After

acceptance you must maintain an overall GPA of 2.00 (2.75 to student teach) in ALL chemistry and collateral courses. These requirements apply regardless of a declaration of academic bankruptcy. Exceptions concerning academic bankruptcy may be granted by the department.

You can apply a maximum of one grade below a C (C- is a grade below C) in chemistry courses numbered 300 or above toward the major. You may petition the department for consideration if you don't meet these standards.

**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 additional credits selected from Chemistry 329, 335, 338, 340, 365, 395.
2. No more than 10 credits of 100-level chemistry courses; and Chemistry 220, 248, 260, 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.

To minor in chemistry, register for acceptance to the minor in the Chemistry Department during your junior year. A minimum grade point average of 2.00 (2.75 to student teach) in chemistry courses is required, regardless of a declaration of academic bankruptcy. Exceptions concerning academic bankruptcy may be granted by the department.

**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 *Repeating Courses* section.)
  - 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 Student Assistance Center.
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, 104
115	100, 101, 104, 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.

### Courses in Chemistry

**CHEM 100. Appreciation of Chemistry.** 3 cr. Selected principles of chemistry, emphasizing the relation between chemistry and modern society. Two hrs lec, two hrs lab per week. (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. Three hrs lec, one hr disc, three hrs lab per wk. (See notes 3 and 4.) (I, II) GDR:NS

**CHEM 104. Essentials of Chemistry.** 2 cr. To help students with an inadequate background prepare for 105. Inorganic nomenclature, chemical calculations, acids, bases, oxidation and reduction. Does not apply toward the natural science requirement for a B.A. or B.S. degree. One hr lec, one hr disc per wk. Prereq: Mathematics 51 or placement in 100 or above. (I, II)

**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 nontransitional metals. Three hrs lec, one hr disc, three hrs lab per wk. Prereq: Mathematics 51 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. Three hrs lec, one hr disc, three 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. Three hrs lab per wk. Prereq: Con reg in 115. (See note 5.) (I, II) GDR:NS

**CHEM 115. General and Quantitative Chemistry.** 4 cr. Laws and principles of chemistry, atomic structure, formulas and equations, stoichiometry, chemical equilibria. Three hrs lec, one hr disc per week. Prereq: One yr high school chemistry with grade of C or better; Mathematics 102 or placement in 106 or 108 or higher. (See notes 1, 3, 4, and 5.) (I, II) GDR:NS

**CHEM 116. General Quantitative Chemistry.** 5 cr. Continuation of 115. Three hrs lec, one hr disc, three 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. Three hrs lec, three 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. One hr lec, six 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. Three

hrs lec, three 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. Projects introduce students 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 of department 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. Six 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. Six hrs lab per wk. Prereq: 248, 326, and 328. (I)

**CHEM 335/535. Physical Chemistry.** 3 cr. Atomic and molecular structure, thermodynamics, kinetics. Prereq: 326, and 395 or con reg; Mathematics 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. Three 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. Three hrs per wk. Prereq: 338 and 336, or con reg. (II)

**CHEM 340. Intermediate Analytical Chemistry.** 4 cr. Theory and methods of chemical analysis including instrumental and separation techniques. Two hrs lec, six hrs lab per wk. Does not count toward chemistry major. Prereq: 248; Mathematics 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. Two hrs lec, six hrs lab per week. 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. Three hrs lec, three hrs lab per wk. Prereq: 248, and 326, 328. (See note 4.) (I, II)

**CHEM 369. Topics in Physiological Chemistry.** 2 cr. Chemistry of some human physiological processes with emphasis on topics related to clinical laboratory work. Does not count toward chemistry major. Prereq: 365; Biology 281 or 285. (II)

**CHEM 380. Industrial Hygiene Chemistry.** 1 cr. Principles of industrial hygiene and evaluation of airborne contaminants in the industrial environment. One hr lec per wk. Field trips required. Does not count toward chemistry major or minor. Prereq: 248, and 220 or 325.

**CHEM 387. Spectral Identification of Organic Compounds.** 1 cr. Advanced treatment of organic compound identification based on spectral analysis. Two hrs per wk. Prereq: 328, and 329 or cons instr.

**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 acceptance into chemistry major or minor or cons chair. (I)

**CHEM 399. Special Work.** 1-3 cr. Chemistry majors and minors may arrange for independent projects with a faculty member. May be repeated. Does not count toward chemistry major or minor.

**CHEM 425/625. Advanced Organic Chemistry.** 3 cr. Theoretical and physical organic chemistry including reaction mechanisms, quantum mechanical applications, and advanced stereochemistry. Prereq: 336. (I, A)

**CHEM 435/635. Advanced Physical Chemistry.** 3 cr. Advanced treatment of quantum chemistry, spectroscopy, statistical thermodynamics, kinetics. Prereq: 336. (I, A)

**CHEM 445/645. Advanced Analytical Chemistry.** 3 cr. Theory and applications of complex chemical equilibria and selected methods of analytical separations. One hr lec, six 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, A)

**CHEM 458. Advanced Inorganic Chemistry Laboratory.** 1 cr. Continuation of 329 for additional specialized training in synthesis, characterization, and reaction of inorganic compounds. Three hrs lab per wk. Prereq: 329; 455 or con reg. (II, A)

**CHEM 468/668. Experimental Biochemistry.** 1 or 2 cr. Techniques used in the isolation, characterization, and study of reactions of biochemical compounds. Three or six hrs lab per wk. Prereq: 365. If the course has been taken for 1 credit, it may be repeated for 1 additional credit. (II, A)

**CHEM 475/675. Polymer Chemistry.** 3 cr. Chemistry and physics of polymers, including synthesis, characterization, and mechanical properties. Two hrs lec, three hrs lab per wk. Prereq: 248, 328, and 336 or con reg; or 335 and cons instr. (II)

**CHEM 496/696. Seminar II.** 1 cr. Studies and discussions of current developments in chemistry. Prereq: 336, 395; or cons instr. (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 790. Chemical Education Workshop.** 1-4 cr. A subtitle will designate topic.

**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.

## CHILD DEVELOPMENT

See *Human Development and Nutritional Sciences* for major in early childhood education.

## CHILD AND FAMILY STUDIES

See *Human Development and Nutritional Sciences*.

## CHINESE

See *Foreign Languages*.

## COACHING

See *Health Promotion/Physical Education*.

## Colloquium

(College of Letters and Science)

Faculty: David R. Wrone.

Colloquium gives you the opportunity to acquaint yourself with great ideas developed by mankind and evaluate the theories and practices of the twentieth century in the light of human learning of the past three thousand years. It is a course for reading and discussion.

You don't have to take the courses in numerical order. Each course includes books from the ancient to the

current and is sufficiently flexible to meet your needs and interests.

Credit in these courses may, with the consent of the department chairs, be used to satisfy some of the requirements in the departments of history, social science, English, and philosophy.

## Courses in Colloquium

**COLL 301, 302, 303, 304. Colloquium on Important Books.** 2 or 3 cr each. Group reading and discussion of some of the writings of eight different authors from the Greek era to the present. Prereq: Cons instr.

## Communication

(College of Fine Arts and Communication)

Richard J. Ilkka, Associate Dean and Head of the Division of Communication  
Room 219, Communication Arts Center  
Phone: (715) 346-3409

Faculty: Allen, Bullis, Davidson, Dubiel, Fritz, Haney, Ilkka, W. Kelley, Kim, Kokkeler, Midkiff-DeBauche, Moe, Richard Rogers, Sadler, William Witt.

The Division of Communication offers a single comprehensive communication major. However, working with a faculty adviser, you can prepare for a wide range of communication careers in broadcasting, journalism, public relations, advertising, business, and teaching. In addition, many students pursue a communication major as part of personal enrichment in the humanities and liberal arts by taking course work in film or interpersonal communication studies. You must complete all course work 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 enhances job opportunities upon graduation by providing practical communication experience.

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. The division will attempt to notify and consult with first semester seniors who are at, or below, a 2.50 GPA. It is your responsibility, however, to know your own GPA status. Finally, no course with a grade below C- can be counted toward the major/minor, nor, may a communication major count any communication class toward the humanities or social science general degree requirements.

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 Academic Achievement Center before graduating, until competency is verified by the center director.

The Division of Communication has entrance and retention requirements. Check with the division chair for more information.

When you major in communication you will have an adviser assigned from communication faculty. You must receive your adviser's approval of courses before you register each semester. (If you are a new major or minor, see the division chair who will assign your adviser.) In addition, every communication major must select one of the areas of emphasis listed later in this section.

### 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: Communication 171, 272, 373, 374.
3. Communication 101 may not be used to complete the major. Communication majors are advised to take Communication 101 in special 3-credit sections reserved for them.

### Communication Major for Teacher Certification

Consists of a minimum of 42 credits in communication courses:

1. Twenty-one credits must be in courses numbered 300 or above.
2. Required: Core (Communication 171, 272, 373, 374); Communication 211, 217, 151 or 220, 221, 252, 318, 394.
3. Nine additional credits of elective course work numbered 300 or above will complete the major for certification.
4. Communication 101 may not be used to complete the major. Communication majors are advised to take Communication 101 in special 3-credit sections reserved for them.
5. This major satisfies certification requirements in the academic area designated Speech by the Wisconsin Department of Public Instruction. You must also complete the Professional Education Program, described under *Education* later in this catalog.

### Communication Minor

Consists of 24 credits:

1. Communication 171, 272, 373, 374.
2. Twelve credits of communication electives at least 6 of which must be numbered 300 or above.
3. Communication 101 may not be used to complete the minor.

### Communication Minor for Teacher Certification

Consists of a minimum of 33 credits in communication courses.

1. Twelve credits must be in courses numbered 300 or above.
2. Required: Core (Communication 171, 272, 373, 374); Communication 211, 217, 151 or 220, 221, 252, 318, 394.
3. Communication 101 may not be used to complete the minor.
4. This minor satisfies the certification requirements in the academic area designated Speech by the Wisconsin Department of Public Instruction. You

must also complete the Professional Education Program, described under *Education* later in this catalog.

### 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. In addition to the requirements listed here, obtain a more complete course list for your emphasis area from your adviser 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: Communication 211, 311 or 383. Electives: 3 courses from Communication 311 (if not chosen above), \*336, 383, \*385, \*389, \*390 (interpersonal or conflict management focus).

**Organizational**—Required: Communication 217, 340. Electives: 3 courses from Communication \*342, 343, \*349, 389, \*390 (organizational focus).

**Broadcasting**—Required: Communication 151, 252 (either radio or TV), 358. Electives: 2 courses from Communication \*353 or \*354, 355, \*359, \*390 (broadcast focus). Note that Communication 353 and 354 are advanced production courses and only one production course may count in this emphasis.

**Film**—Required: Communication 125, \*362 (film history only), \*369 (film criticism OR film theory). Electives: 2 courses from Communication \*362, \*363, \*365 (film emphasis), \*369.

**Public Relations/Advertising**—Required: Communication 230 or 238, \*330 or \*365 (public relations or advertising focus). Electives: 3 courses from Communication \*330, \*338.

**Journalism**—Required: Communication 220, 221, 321. Electives: 2 courses from Communication \*322, \*323, 325, \*329.

**Individually Planned (I.P.E.)**—Meet the requirements for the major with 21 credits designated for the I.P.E. At least 15 of the 21 credits must be in courses numbered 300 and above. Also include a one-credit independent study course that you will take in your senior year to write a "final paper." To graduate with an I.P.E. in communication you must earn a 3.0 grade point average in communication courses.

### Courses in Communication

Also see *Communication Education* (next section).

**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 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. An introduction to the history, economics, social/political constraints, and processes and effects of American broadcasting.

**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 252. Basic Broadcasting Laboratory.** 3 cr. Introduction to radio or television production. Typical offerings include: radio production, television production, electronic field production. Subtitle will designate area. May be repeated for credit with different subtitles.

**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 consent of the head of the Communication Division. Credit will be based on the scope of the project. Prereq: Cons instr.

**COMM 300/500. 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 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 321/521. Advanced Journalism.** 3 cr. News and public affairs writing and reporting, investigative reporting, interpretive writing, and editing. Prereq: 221 or cons instr.

**COMM 322/522. 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 be repeated for credit with different subtitle.

**COMM 323/523. 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 be repeated 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 329/529. Topics in Journalism.** 3 cr. Typical offerings include new journalism, literary journalism, journalism history, business

journalism. Subtitle will designate area. May be repeated for credit with different subtitle. Prereq: 220 or cons instr.

**COMM 330/530. Public Relations Laboratory.** 3 cr. Training in methods used by institutions to relate to their respective publics. Typical offerings include: public relations campaigns, case studies in public relations, and public relations practicum. Subtitle will designate area. May be repeated for credit with different subtitle. Prereq: 230 or cons instr.

**COMM 336/536. 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 be repeated for credit with different subtitle. Prereq: 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 be repeated for credit with different subtitle. 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 be repeated 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 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 be repeated for credit with different subtitle. Prereq: 340 or cons instr.

**COMM 353/553. Advanced Broadcasting Laboratory.** 3 cr. Advanced training in radio and/or television production. Typical offerings include: advanced radio production, advanced television production, and broadcast announcing. Subtitle will designate area. May be repeated for credit with different subtitle. Prereq: 252 and cons instr.

**COMM 354/554. Broadcast News Laboratory.** 3 cr. Training in radio and television newswriting, reporting, and production. Subtitle will designate area. May be repeated 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 358/558. Regulation of Broadcasting.** 3 cr. An analysis of the laws and regulations that affect the American broadcasting industry. Prereq: 151 or 210 or 121.

**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 be repeated for credit with different subtitle. Prereq: 151.

**COMM 361/561. Film Laboratory.** 3 cr. Training in the forms of film communication with variable focus on writing, editing, producing, directing. Subtitle will designate area. May be repeated for credit with different subtitle. Prereq: Cons instr.

**COMM 362/562. Film History.** 3 cr. The development of the motion picture; significant national and international trends, films, and artists. Typical offerings include: the history of the motion picture, American films in the '20s and '30s, American films of the '40s and '50s, American films of the '60s and '70s. Subtitle will designate area. May be repeated 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 be repeated with different subtitle. GDR:HU1

**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 be repeated 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 be repeated for credit with different subtitle. Prereq: 125 or cons instr. GDR:HU1

**COMM 370. 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 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. Typical offerings include nonverbal communication, listening, and interviewing. Subtitle will designate area. May be repeated for credit with different subtitle. Prereq: 211 or cons instr.

**COMM 389/589. Personal Communication Topics.** 3 cr. Typical offerings include small group communication theory, gender and communication, intercultural communication, and communication in social interaction. Subtitle will designate area. May be repeated 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 be repeated for credit with different subtitle. Prereq: Cons instr.

**COMM 391/591. 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 be repeated for credit with different subtitle.

**COMM 394. Speech-Making Laboratory.** 3 cr. Training in speech-making with emphasis on preparation, delivery and evaluation. May be repeated. Prereq: 101 or placement through test-out.

**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. May be repeated. No more than 8 credits may be counted toward graduation. Prereq: Jr/sr st with 3.00 GPA; course work and/or student activity in area related to internships; or consent of 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 the required core courses in the major, and recommendation of the adviser.

**COMM 499. Special Work.** Upperclass communication majors and minors may arrange for independent study with consent of the division head. Credit will be based on the scope of the project.

**COMM 701. Communication Theory and Research I.** 3 cr. The study of rhetorical theories and historical/critical research methodologies. Colloquium (797) attendance required.

**COMM 702. Communication Theory and Research II.** 3 cr. The study of communication theories and quantitative and qualitative research methodologies. Colloquium (797) attendance required.

**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 be repeated for credit with different subtitles.

**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 be repeated for credit with different subtitles.

**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 be repeated for credit with different subtitles.

**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 be repeated for credit with different subtitles.

**COMM 780. Field Study in Professional Practices.** 2-6 cr. Career development through participation within professional contexts; field study to analyze, evaluate, and report on actual communication programs in appropriate career areas, background readings, and research application.

**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/Project.** 1-6 cr. The department considers "thesis" to include the option of completing an original artistic project.

### **Courses in Communication Education**

**C ED 318/518. Directing Communication Activities in the Secondary School.** 3 cr. Preparation of teachers for directing high school media and speech activities. Observation of and experience with activities including school newspaper, radio production, television production, yearbook, debate, and forensics. Prereq: Successful application to the division and cons instr.

**C ED 380. Secondary School Methods: Philosophy and Practice.** 3 cr. Development and implementation of the communication curriculum at the secondary school level.

## **Communicative Disorders**

### **(College of Professional Studies)**

La Rene Tufts, Associate Dean of the College of Professional Studies and Head of the School of Communicative Disorders

Room 037, College of Professional Studies Building  
Phone: (715) 346-2328

**Faculty:** Aylesworth, Balas, Brush, Chappell, Donna Christensen, Jack F. Curtis, Day, Forster, Gallagher, Glascoe, G. Johnson, W. Meyer, Nash, D. M. Olson, Pratt, Tufts.

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.

### **Academic Standards for Communicative Disorders**

1. An overall GPA of 2.50 and an in-major GPA of 2.75 at the end of the sophomore year are required to continue in the major.
2. No course with a grade below C- can be counted toward the major.
3. 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 will be allowed.
4. All courses taken in the major (including courses used toward education certification in psychology and education) are used in determining the GPA, regardless of a declaration of academic bankruptcy. You may petition the school's academic programs committee for exception.

### **Communicative Disorders Program Leading to Teacher Certification**

Consists of courses from the undergraduate program in communicative disorders, of collateral courses in psychology and education, and of the Master of Science Degree-Communicative Disorders.

The following courses are required at the undergraduate level:

1. Communicative Disorders, 41 credits: 251, 260, 264, 266, 267, 345, 351, 352, 360, 366, 407, 425, 435, 495.
2. Psychology, 13 credits: Psychology 110, 260 or Human Development 261, Psychology 300 or Math 355, Psychology 375.
3. Education, 9 credits: 308 or 326, 351, 381.
4. Sociology 305, History 212 and one additional history course from 211, 120, 130, 379, 382 or 385.

### **Communicative Disorders Major Without Teacher Certification**

Includes courses listed directly above in items 1. and 2.

### **Master of Science Degree in Communicative Disorders**

Is described in the graduate catalog.



## Center for Communicative Disorders

Dennis B. Nash, Director  
College of Professional Studies Building  
Phone: (715) 346-3667

The Center for Communicative Disorders provides you with a variety of services. It offers speech, language, and hearing diagnostic and therapeutic services to university students. You are encouraged to 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: So st.

**COMD 252. Basic Manual Communication.** 2 cr. Instruction and practice in the presentation of English through the use of manual signs and fingerspelling. One hr lec, two hrs lab per wk. Prereq: So st.

**COMD 260. Phonetics.** 3 cr. Analysis of speech production using the international phonetic alphabet; practice transcribing normal and deviant articulation. Prereq: So st.

**COMD 264. Anatomy and Physiology of Speech and Language Mechanisms.** 3 cr. Gross anatomy and physiology of articulatory, phonatory, and respiratory structures; landmarks of the central and peripheral neural mechanisms, and embryological derivation of the orofacial complex. Three hrs lec per wk. Prereq: So st.

**COMD 266. Normal Development of Human Communicative Behavior.** 3 cr. Normal development of speech perception and production, linguistics and cognitive skills. Prereq: So st.

**COMD 267. Normal Development Lab.** 1 cr. Practicum in speech and language improvement with normal preschool-age children. Prereq: 266 or con reg.

**COMD 345/545. Developmental Disorders of Articulation.** 3 cr. Phonetic, phonemic, and phonological communicative disorders; methods of assessment and management. Prereq: 251, 260, 264, 266.

**COMD 351/551. Audiometry.** 4 cr. Nature and measurement of hearing; audiometric procedures and review of specialized tests. Three hrs lec, two hrs lab per wk. Prereq: 251, 260, 264, 266.

**COMD 352/552. Audiological (Re)Habilitation.** 3 cr. Methods and procedures used in visual, auditory, speech, and language programming for the hearing impaired. Prereq: 351.

**COMD 353/553. Conversational Sign Language.** 2 cr. Intermediate-level instruction and practice in presenting English using manual signs and fingerspelling; review of manual communication research. Prereq: 252 or cons instr.

**COMD 360. Clinical Procedures.** 3 cr. Directed observation of clinical management, presentation of basic diagnostic instruments, interviewing techniques, and overviews of clinical report writing and therapy planning. Prereq: 251, 260, 264, 266.

**COMD 366. Language Disorders.** 4 cr. Nature, assessment, and management of language disorders in children, especially the age 0-5 developmental period. Prereq: 266.

**COMD 367. Language Programming in Education Settings.** 2 cr. Relationship of language delays or disorders to learning disabilities, developmental delay, autism, emotional or behavioral problems, and physical handicaps; includes impact of cultural issues and English as second language. Prereq: 266. For exceptional education students only.

**COMD 407/607. Introduction to Speech and Hearing Science.** 3 cr. Acoustic and physiologic elements of speech production and perception; laboratory assessment.

**COMD 425. Stuttering.** 2 cr. Analysis of theories and therapies.

**COMD 430/630. Procedures for Care-giver/Family Intervention.** 3 cr. Theories and patterns of interaction between communicative disorders clinicians and family units; initial contacts, information exchange, termination of therapy, practice interview.

**COMD 435/635. Disorders of Phonation.** 2 cr. Classification and management of children and adults with hyperfunctional and non-malignant disorders of phonation.

**COMD 495. Clinical Practicum.** 2 cr. Manage articulation and language disorders for preschool or school-age clients; speech and hearing screening and tests with children and/or university students. Must be repeated to total 4 credits.

**COMD 499. Special Work.** Upperclass communicative disorders majors may arrange for independent study with consent of the head of the School of Communicative Disorders. Credit will be based on the scope of the project.

**COMD 710. Clinical Research Methods.** 3 cr. Scientific method, design and statistical techniques used in clinical speech, language, and hearing research; emphasis on evaluating current clinical literature. Student-generated clinical research project required.

**COMD 711. Clinical Instrumentation.** Overview and application of instrumentation used in the assessment of the speech system mechanisms.

**COMD 713. Instrumentation.** 2 cr. Basic acoustics, electronics, and use of electroacoustical equipment.

**COMD 714. Oral Peripheral and Motor Speech Examination.** 1 cr. Discussion and laboratory experience examining the structure and functions of the oral mechanism.

**COMD 715. Gross Anatomy of the Head and Neck I.** 2 cr. Dissections of the head and neck to see the structural relationships of the mechanisms for human communication.

**COMD 716. Gross Anatomy of the Head and Neck II.** 2 cr. Continuation of 715.

**COMD 721. Auditory and Vestibular Systems.** 2 cr. Anatomy, physiology, and neurology of the auditory and vestibular functions. Prereq: Cons instr.

**COMD 722. Theories of Hearing.** 3 cr. Psychological, acoustic, and bioacoustic aspects of hearing. Prereq: Cons instr.

**COMD 723. Stuttering in Adults and Children.** 3 cr. Analysis of the development of stuttering, remedial programs, and counseling.

**COMD 729. Neurophysical Bases of Speech and Language.** 3 cr. Functional anatomy of central and peripheral neural mechanisms which control sensory and motor aspects of speech and language.

**COMD 730. Neuromotor Disorders of Children.** 2 cr. Etiology and multi-disciplinary management of cerebral palsy and related neuromuscular disorders. Prereq: 729.

**COMD 731. Neuromotor Disorders of Adults.** 3 cr. Classification and management of adults with apraxia of speech, dysarthria, and dysphagia. Prereq: 729.

**COMD 732. Language Theories.** 3 cr. Theories of language acquisition including behavioral, transformational-generative, cognitive-linguistic, and pragmatic orientations.

**COMD 733. Language Assessment and Therapy for School Children.** 2 cr. Assessment and therapy goals, materials and methods for fostering the development of communication skills of school-age children with language disorders.

**COMD 734. Language Therapy for Select Populations.** 3 cr. Assessment and therapy goals, and programs for developing communication skills in children with mental retardation, autism, and cultural language variation.

**COMD 736. Advanced Study in Language Learning Disorders.** 2 cr. Characteristics of language acquisition used to define language disorders; assessment and treatment.

**COMD 737. Congenital and Acquired Organic Disorders of the Head and Neck.** 2 cr. Etiology and multi-disciplinary management of patients with cleft lip and palate and with laryngeal cancer.

**COMD 740. Acquired Communication Disorders of Adults.** 4 cr. Acquired communication disorders of adults including aphasia, right hemisphere lesions, head injury, and dementia; evaluation, differential diagnosis, and management procedures. Prereq: 729.

**COMD 745. Seminar in Phonological Disorders.** 2 cr. Issues related to assessment and treatment of phonological disorders.

**COMD 751. Measurement of Hearing.** 4 cr. Basic theory, principles, and techniques underlying the initial clinical assessment of auditory function, including immitance, pure tone, and speech audiometry. Three hrs lec, two hrs lab per wk. Prereq: Cons instr.

**COMD 752. Seminar in Hearing Measurement.** 3 cr. Advanced study of site of lesion testing, interpretation, and practice. Prereq: 751 and cons instr.

**COMD 753. Special Audiological Procedures.** 3 cr. Contemporary audiometric techniques used with pediatric, geriatric, and difficult-to-test populations. Prereq: 751 and cons instr.

**COMD 754. Audiology Practicum.** 1 cr. Assigned clinical experience in the Center for Communicative Disorders. 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 757. Advanced Practicum.** 3 cr. Assigned experiences in the audiology clinic. Prereq: 752, 760, and 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.

**COMD 765. Alternate Communication Systems.** 2 cr. Study of cognitive, communicative, and motor skills of nonspeech individuals; evaluation tests and procedures that assess ability to use alternate and/or augmentative communication modes and systems.

**COMD 766. BAER and ENG Auditory Testing.** 3 cr. Underlying research and rationale and protocol for administering and interpreting Brainstem Auditory Evoked Potential and Electronystagmographic tests. Prereq: Cons instr.

**COMD 769. Supervision.** 3 cr. Supervisory theories, styles, problems, and behavioral analysis instruments; clinical models.

**COMD 770. Management in the Education Setting.** 3 cr. Assessment and intervention methods for students, birth to 21, who exhibit language, speech, and hearing problems. Also included: a variety of service delivery models used in education settings; impact of cultural issues and English as a second language.

**COMD 781. Seminar in Auditory.** 1-3 cr. Advanced study of selected topics and recent advances in diagnostic and rehabilitative audiology. Prereq: Cons instr.

**COMD 783. Special Topics in Computer Use.** 1-3 cr. Subtitle will designate area. May be repeated for total of 3 credits under different subtitles. Prereq: Cons instr.

**COMD 793. Graduate Practicum I.** 2 cr. Manage articulation and language disorders for preschool, school age, or university students in the University Clinic.

**COMD 794. Graduate Practicum II.** 2 cr. Experience, evaluation, and management of speech, language, and/or hearing rehabilitation cases in the University Clinic and at selected external sites.

**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 be repeated for credit with different content.

**COMD 799. Thesis.** 2-6 cr.

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

## COMMUNITY NUTRITION

See *Human Development and Nutritional Sciences*.

## Comparative Literature

(College of Letters and Science)

Michael Danahy, Coordinator  
Room 490, Collins Classroom Center  
Phone: (715) 346-3036

### 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.

### Courses in Comparative Literature

**CLT 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

**CLT 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

**CLT 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

**CLT 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.

# Computer Information Systems

(College of Letters and Science)

William Wresch, Coordinator of Instructional Computing  
Room B-246, Science Building  
Phone: (715) 346-2120

The program and courses in computer information systems are administered by the Mathematics and Computing Department.

## Computer Information Systems Major

Consists of ONE of the four options listed below and these required courses: Computer Information Systems (CIS) 105, 110, 111, 210, 230, 315, 316, 358 and 480.

1. **Business option:**
  - a. CIS 313, 319, 351 and 352.
  - b. One additional 300-level CIS course.
  - c. Mathematics 109, or equivalent.
  - d. A collateral minor in business administration.
2. **Technical support option:**
  - a. CIS 312 or 314, CIS 305 and 362.
  - b. Three credits from: CIS 324, 340, 345, 351, 365, 390, 397.
  - c. Six credits from Mathematics 305, 310, 315, 357, 360.
  - d. Mathematics 120 and 121, or 111.
  - e. Mathematics 351 and 352, or Mathematics 355 or Economics 310.
  - f. A collateral minor approved by the CIS adviser.
3. **Data communication option:**
  - a. CIS 312 or 313 or 314, CIS 319 and 362.
  - b. Nine credits (three courses) from CIS 324, 340, 345, 351, 352, 365, 390, 397; Mathematics 305, 310.
  - c. Mathematics 109 or equivalent.
  - d. A collateral minor approved by the CIS adviser.
4. **Secondary teacher certification option:**
  - a. CIS 312 or 313 or 314.
  - b. Computer Science Education 334.
  - c. Three additional credits in any CIS course(s).
  - d. Demonstrated proficiency in the following languages: Logo, BASIC, Pascal.
  - e. Demonstrated proficiency in the following computer tools: word processing, spreadsheet, database.
  - f. CIS 101.

NOTE: Several courses in education and psychology are required for admission to the secondary education program. Get these requirements from the School of Education.

## Computer Information Systems Minor

Consists of 23 credits:

1. CIS 105, 110, 111, 210 and 230.
2. CIS 312 or 313 or 314, and 6 credits of 300-level CIS courses.

## Computer Science Minor for Secondary Teacher Certification

Consists of 26 credits:

1. CIS 101, 102, 105, 110, 111, 210 and 230.
2. Computer Science Education 334.
3. Three credits in a second programming language.
4. Additional credits in any CIS course(s) to satisfy the 26 credit minimum.
5. Demonstrated proficiency in Logo, BASIC, and Pascal.
6. Demonstrated proficiency in word processing, spreadsheet, and database.

### NOTES:

1. You will need permission from the Department of Mathematics and Computing before you are admitted to CIS 316. This permission will be granted according to the following procedure. While you are enrolled in CIS 315, the department will calculate your grade point average in CIS 105, 110, 111, 210 and 230. If that grade point average is at least 2.75, you will be granted permission to register for CIS 316. If your grade point average in the above five courses is at least 2.00 but less than 2.75, you will need to obtain a grade of B or better in CIS 315 before permission to register for CIS 316 will be granted. If your grade point average in the above five courses is below 2.00, you will not be allowed to register for CIS 316. Early in the semester in which you are enrolled in CIS 315, you will receive a letter from the department indicating which of the above grade point situations pertains to you.
2. 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.
3. A 499 course can be added as an elective only with the prior approval of the department chair.

## Courses in Computer Information Systems (CIS)

(I indicates first semester offering; II, second semester.)  
**CIS 101. Introduction to Computing.** 2 cr. Survey, history, hardware, software, applications, social implications, the future of computing. Concurrent registration in 102 is required. (I, II)

**CIS 102. Practicum in Computing.** 1 cr. A subtitle will be added for each section offered. May be repeated for credit under different subtitles. Prereq: 101 or con reg. (I, II)

**CIS 105. Introduction to Campus Computing Facilities.** 1 cr. A survey of the computing facilities and capabilities on campus; working knowledge of campus operating systems; understanding campus network facilities and their use in sharing data, software and peripheral devices. (I, II)

**CIS 110. Algorithm Development and Computer Programming I.** 3 cr. Problem-solving, algorithm development, and computer programming in the microcomputer environment using a block structured language such as Pascal; how to design, code, debug, and document programs using structured programming techniques and good programming style. Prereq: Con reg in 105. (I, II)

**CIS 111. Algorithm Development and Computer Programming II.** 3 cr. Designing, writing, and documenting large programs requiring use of sequential and random access files, input verification, screen handling, pointers and multiple dimension arrays; individual and team projects. Prereq: 110. (I, II)

**CIS 112. Introduction to FORTRAN Programming.** 3 cr. Problem-solving, algorithm development, and computer programming using the scientific programming language FORTRAN 77; how to design, code,

debug, and document programs using structured programming techniques and good programming style. Prereq: Mathematics 100 or equiv. (I, II)

**CIS 113. Introduction to COBOL Programming.** 3 cr. Problem-solving, algorithm development, and computer programming using the business programming language COBOL; how to design, code, debug, and document programs using structured programming techniques and good programming style. (I, II)

**CIS 210. Data Structures.** 3 cr. Techniques for using basic data structures such as arrays, stacks, queues and dequeues, general linear lists, trees, graphs, symbols, and multi-linked structures to represent information. Prereq: 111 (I, II)

**CIS 230. Computer Organization and Assembly Language.** 3 cr. Thorough working knowledge of microcomputer systems: basic computer architecture, instruction and data representations, addressing, operations, program linkage, input/output, interrupts, traps, and assembly language programming. Prereq: 111. (I, II)

**CIS 305. Operating Systems.** 3 cr. Batch processing, real-time and time-sharing systems, resource allocation, memory management, performance measurement, and system evaluation. Prereq: 230. (II)

**CIS 312. Advanced Programming: FORTRAN.** 4 cr. Apply FORTRAN 77 to solve significant scientific problems; individual and team projects. Study syntax and logic of the FORTRAN 77 programming language. Prereq: 210 and a one-semester course in calculus. (II)

**CIS 313. Advanced Programming: COBOL.** 4 cr. Apply COBOL to significant business problems; individual and team projects. Study syntax and logic of the COBOL programming language. Prereq: 210. (I, II)

**CIS 314. (formerly 324) C Programming Language.** 4 cr. How to design, code, debug and document significant programs using the C programming language. Topics include modular programming techniques, arrays, pointers, character manipulation and file manipulation. Prereq: 210 (I)

**CIS 315. Structured Systems Analysis and Design I.** 3 cr. Overview of the systems development life cycle; documentation of the current system using structured tools/techniques for describing process flows, data flows, data structures, file designs, input and output designs; general design of the new system. Prereq: 210 and 230. (I, II)

**CIS 316. Structured Systems Analysis and Design II.** 3 cr. Continuation of 315; structured techniques for transition from general design through system implementation; system conversion strategies, training approaches, system review consideration. Prereq: 315 and 312 or 313 or 314; and permission required. (I, II)

**CIS 319. Database Program Development.** 3 cr. Organizational approaches of a database dictionary; various schemes of a database; basic database models; concepts of files, directories associated with database models; various inquiries; retrievals of information using the directories; performance analysis of the directories in terms of storage, time; query languages, security, integrity, reliability of a database. Group project using design concepts of a relational database model. Prereq: 312 or 313 or 314. (I)

**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: 314. (II)

**CIS 335. Computers, Data Processing, and the Law.** 3 cr. Legal issues relating to computing and data processing: hardware and software contracts; remedies for computer system failures, personnel consulting services; facilities management; writing computer programs for sale; computer crime and privacy; cases and court opinions. (I, odd years)

**CIS 340. Artificial Intelligence.** 3 cr. General strategies and analysis of contemporary work in pattern recognition, game playing, theorem proving, and general problem-solving. Prereq: 312 or 313 or 314. (II, even years)

**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 be repeated for credit with different subtitles. Prereq: 312 or 313 or 314. (II, odd years)

**CIS 351. Modeling and Simulation.** 3 cr. Study various mathematical models of standard generic systems; design, implement, and validate computer-based simulations of those models. Random number generation, probability distributions, and expert systems. Prereq: 111 and a statistics course. (I)

**CIS 352. Decision Support Systems.** 3 cr. Analyze decision-making activities and use computer-based technology to support those activities within organizations; DSS within the general MIS structure; development, implementation and evaluation considerations; technological components; applications to real-world case studies; research project. Prereq: 312 or 313 or 314, and 351 or equiv with cons instr. (II)

**CIS 358. Systems Documentation.** 3 cr. Instruction and practice in writing technical reports, feasibility studies, and user documentation for students of computer system design. Prereq: Con reg in 315 or 316. (I, II)

**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: 230. (I)

**CIS 365. Computer Graphics.** 3 cr. An introduction to the concepts and applications of computer graphics; overview of pertinent computer graphics hardware, basic algorithmic graphic procedures, prefatory graphics programming, fundamental mathematical principles of graphics, and the practical applications of computer-generated images, raster and vector graphics programming techniques, scale parameters, coordinate systems, two- and three-dimensional picture generation, graphic design, and animation principles. Prereq: 110 or equiv, Math 109. (I)

**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.). May not count toward computer information systems major or minor unless approved by department chair. Prereq: 371/571 or equiv.

**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. May not count toward computer information systems major or minor unless approved by department chair.

**CIS 372/572. Data Analysis Packages for Biological Sciences.** 3 cr. Use microcomputer software packages to solve problems in data/information management and analysis in biology and natural resources; use statistical, database management, spreadsheet modeling and word processing software. Prereq: Cons instr.

**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. May not count toward the computer information systems major or minor unless approved by department chair.

**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.). May not count toward computer information systems major or minor unless approved by department chair.

**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. May not count toward computer information systems major or minor unless approved by department chair. Prereq: 375/575 or cons instr.

**CIS 390/590. Special Topics in Computer Science.** 3 cr. Topic will be announced in the timetable. Prereq: Cons chair.

**CIS 397. Internship in Computing.** 2-6 cr. Participate in a supervised training work program that you arrange with your adviser in a cooperating agency or business. Credit will be determined by adviser and chair following department guidelines. May be repeated for maximum of 6 credits. 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: 316 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 will be based on the 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.** 1-16 cr. Observation and teaching in actual secondary school classrooms under the guidance of cooperating teachers and university faculty.

## COMPUTER SCIENCE

See *Computer Information Systems*.

## Convocation

Richard Feldman, Coordinator  
Room 412, Collins Classroom Center  
Phone: (715) 346-3809

**CONV 100/300. Convocation.** 1 cr. Discussion and analysis of major themes of convocation address. Offered over a three-to-four week period centered around "Convocation" each fall. A subtitle will be listed each time the course is offered. May apply to general degree requirements as determined with each offering.

## Cooperative Education

Career Services Office  
Room 134, Main Building  
Phone: (715) 346-3136

In the cooperative education program you can gain one to five years in training experiences 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 *Human Development and Nutritional Sciences*.

## DRAMA

See *Theatre and Dance*.

## EARLY CHILDHOOD EDUCATION

See *Human Development and Nutritional Sciences*.

## EARLY CHILDHOOD: EXCEPTIONAL EDUCATIONAL NEEDS

See *Education*.

## Earth Science

(College of Letters and Science)

Gary Meyer, Coordinator  
Room D-332, Science Building  
Phone: (715) 346-2629

### Earth Science Minor

Is administered by the Department of Geography and Geology and consists of 22 credits:

1. Geography 101 and Geology 104 and 106 or 105.
2. At least one course from each of the following groups:
  - a. Geography 352, 353, 354.
  - b. Geology 200, 201, 330, 370, 489.
3. Six additional credits either from groups 2.a. and 2.b. above; or from Geography 375, 393 (maximum of 3 cr), 395 (for topics appropriate to earth science); Geology 393 (maximum of 3 cr), 395; Astronomy 311.

NOTE: No more than three total field experience credits (Geology 393 or Geography 393) can be used to satisfy the earth science minor requirements.

If you want teacher certification in earth science, you must include Geography 101, Geology 104 and 106 or 105, Astronomy 311, and at least two field experience credits in Geography 393 and/or Geology 393.

## EAST CENTRAL EUROPEAN STUDIES

See *International Studies*.

## ECONOMICS

See *Business and Economics*.



# Education

## (College of Professional Studies)

Leon Lewis, Acting Associate Dean and Head of the School of Education  
Room 438, College of Professional Studies Building  
Phone: (715) 346-2040

**Faculty:** Benz, Buss, Caro, Holmes, Kaufman, Kapter, Kennedy, Kirby, Lewis, McCaig, McClain-Ruelle, D. Miller, M. Miller, Narron, J. Price, Reyes, Riggs, Stevens, St. Maurice, Wilson, Wood.

See the *Human Development and Nutritional Sciences* section of this catalog for information on early childhood education.

## Admission to the Professional Education Program

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 54 credits must be earned before final admission is granted. Get your application from the School of Education Advising Center, Room 470 CPS Building. Applications are processed two times each year, March 8 and October 8. No applications will be accepted during the advising period.

In order to enroll in junior and senior level education courses (except Instructional Resources 331) that are required for teacher certification, you must have completed 54 credits and be fully accepted into the Professional Education Program.

You are eligible for admission into this program if you:

1. Earn a 2.50 cumulative grade point average (GPA).
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.
  - c. Receive a grade of B- or better in English 250, 251, 253, 254, 350, 351, 352, 353, 354, or 358. See the *English* section of this catalog for course descriptions.
  - d. Receive an upper-level score on the writing portion of the Pre-Professional Skills Test (PPST).
  - e. Receive a passing score on the writing portion of the PPST and receive grades of B or better in two writing emphasis (WE) courses.
  - f. Satisfactorily complete the required work in the Academic Achievement Center.
3. Complete a speech and hearing screening test.
4. Receive passing scores on the listening skills test.
5. Receive passing scores on the PPST in all three areas.
6. Complete the Teacher Perceiver Interview.
7. If you do not meet the above qualifications, you may appeal to the associate dean of School of Education for provisional admission in special cases.

**NOTE:** As of fall 1991, enrollment caps may be applied to the Professional Education Program. These caps may prevent you from being admitted if you meet only the minimum admission qualifications.

## Admission to the Professional Education Program for Transfer Students

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 1-6 above and:

1. Earn a minimum cumulative grade point average of 2.50 from all institutions attended including UW-Stevens Point, and
2. Earn a minimum cumulative grade point average of 2.50 in 12 credits at UW-Stevens Point. (Two-year UW-Center campus students and graduates from an accredited four-year institution are exempt from this 12 credit requirement.)

## Elementary Education Curriculum for the Bachelor of Science Degree (Grades 1-6 or Grades 1-9 when Middle School Certification Applies)

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 and 102 or 150; Mathematics 100 and 228 along with Mathematics Education 228; and Mathematics 338 along with Mathematics Education 338.
  - b. In the critical thinking/natural science sequence, take 13 to 15 credits, including no more than one 3-credit course, and at least two 5-credit courses in these three disciplines:
    - 1) Physical science: Chemistry 100 or 101; Physics 100 or 101; Astronomy 100, 205, 206, or 311.
    - 2) Earth science: Geography 100 or 101; Geology 100;
    - 3) Life science: Biology 100 or 101.
  - c. Take 21 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 three more credits from History 120, 130, 211, 379(MNS), 382(MNS), 385.
    - 2) Social Science: Take at least 9 credits, including Psychology 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 technology and contemporary issues (TCI) requirement and the DPI's environmental education requirement.



- e. Take Physical Education 231 and 2 credits of health enhancement to fulfill the physical education requirement.
2. After you have completed 45 credits, apply for admission to the Professional Education Program. For a list of the admission criteria, see the *Admission to the Professional Education Program* section above.
3. Take 31 credits of professional education: Education 101, 280, 326, 381, 383, 398, and Instructional Resources 331.
4. Take 19 credits in education methods: Education 304, 308, 324, 325, 351; Mathematics Education 228, 338, and either 345 or 346.
5. Take 15 credits of related professional subject matter: Art 101 or Fashion/Interior Design 101, Art Education 322, English 275, Health Education 280, Music Education 381, and Sociology 305.
6. Complete an approved certifiable minor. (See the appropriate department for course requirements.)
7. Demonstrate your competency in music accompaniment: Complete Music 109, 149 or 159 or demonstrate the following skills on the piano, guitar, or autoharp before you take Music Education 381:
  - a. Accompany with I, IV and V7 chords one song selected from any level of an elementary basic music series.
  - b. At sight, harmonize a melody selected from an elementary basic series book.

Make an appointment for the music proficiency examination with the Music Education 381 teacher at least a week before the exams. Exams are held the first and last week of each semester.
8. Show proof of completion of First Aid and CPR training on campus or through the Red Cross.
9. 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.
10. Earn a 2.0 GPA (C) or better in all areas of student teaching. You CANNOT be certified if you receive a grade less than C.
11. To graduate, see the *Graduation* section of this catalog.

### Notes Regarding Teacher Certification for Elementary Teachers

1. For teacher certification you must document 100 clock hours of prestudent teaching experience working with children and youth of which 50 clock hours are involved with designated social, cultural, or language groups.
2. Be sure you understand and fulfill the human relations requirements of the Wisconsin Department of Public Instruction. You can pick up a copy of the human relations requirements checklist from the School of Education Advising Center, Room 470, CPS Building.
3. You may also earn add-on certifications in English as a second language, exceptional education, foreign language in the elementary school, and middle school level.
4. If you major in one of the three areas of music education (general music K-12, instrumental music K-12, or choral music 7-12), you may complete add-on certification requirements in the other two.

### Certification in Early Childhood Education

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.

### 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 ten years, you need to retake methods coursework.

### TEACHER CERTIFICATION

UW-Stevens Point offers certification in the following majors<sup>#</sup>, secondary education minors<sup>□</sup>, elementary education minors<sup>\*</sup>, and add-on certifications.

	Major	2ndry Minor	Elem Minor
Anthropology		□	
Art	#		
Biology	#	□	
Chemistry	#	□	
Coaching		□	
Communication	#	□	
Communicative Disorders	#		
Computer Information Systems	#	□	
Dance Education		□	
Drama Education	#	□	
Early Childhood: EEN		□	*
Early Childhood Education	#		*
Earth Science		□	
Economics	#	□	
Elementary Education	#		
Emotional Disturbance		□	*
English	#	□	
English as Second Language			add-on add-on
Foreign Language in Elem School			add-on *
French	#	□	
Geography	#	□	
German	#	□	
Health Education		□	
Health Promo/Physical Education	#		
History	#	□	
Home Economics Education	#		
International Studies	#		
Learning Disabilities		□	*
Mathematics	#	□	*
Mild-Mod Mental Retardation		□	*
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 Educ for Exceptional Indl		□	
Physics	#	□	
Political Science	#	□	
Psychology	#	□	
Religious Studies		□	
Resource Management	#	□	
Russian		□	
Social Science	#		
Sociology	#	□	
Spanish	#	□	

#### Middle School Level Add-On Option

This option extends certification to grades 1-9 or 6-12. You must complete the following in addition to elementary or secondary certification:

1. Education 385: Teaching the Early Adolescent, 3 credits.
2. Education 395: Teaching in the Middle School, 3 credits.

3. Certifiable minor.
4. Education 398: Student Teaching (middle school level in minor field).

#### Secondary Education Curriculum for Teacher Certification (Grades 9-12) (or Grades 6-12 when Middle School Certification Applies)

Meet the following requirements:

1. Complete the requirements for the B.S. or B.A. described in the *General Degree Requirements* section of this catalog.
2. Meet your history requirement for certification by taking History 212 and then choosing three additional credits from History 120, 130, 211, 379(MNS), 382(MNS), 385.
3. Complete one of the three options for major and minor studies.
  - a. One certifiable major and one minor.
  - b. Two majors. (One major must be certifiable.)
  - c. One certifiable broad-field or comprehensive major of at least 54 credits (art, communicative disorders, home economics, music, natural science, physical education, or social science).
  - d. For information on the requirements for your major and minor, see the section in this catalog on your field 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. Education 101, 280, 351, 381, 386 (or English 381 if you are an English major or minor), 390, and Instructional Resources 331 (or department equivalent).
  - b. Teaching methods course in your major, 3 credits.
  - c. Teaching methods course in your minor, if you want to be certified in your minor, 3 credits.
  - d. Student teaching, 16 credits. See the *Student Teaching* section below.
  - e. Political Science 201 unless your major, minor, or concentration includes the same course work (Political Science 101 and 242).
  - f. Sociology 305.
  - g. Science majors take Natural Resources 370. Social science majors take Natural Resources 370 (except philosophy, religious studies, or psychology majors) and Economics 210 or 372 unless it is part of a broad-field major.
  - h. One fine arts course.
  - i. One humanities course must be literature.
  - j. 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 2.0 GPA (C) or better in all areas of student teaching. You CANNOT be certified if you receive a grade less than C.
7. To graduate, see the *Graduation* section of this catalog.

## Notes Regarding Teacher Certification for Secondary Teachers

1. For teacher certification you must document 100 clock hours of prestudent teaching experience working with children and youth of which 50 clock hours are involved with designated social, cultural, and language groups.
2. Be sure you understand and fulfill the human relations requirements of the Wisconsin Department of Public Instruction. You can pick up a copy of the human relations requirements checklist from the School of Education Advising Center, Room 470, CPS Building.
3. If you major in one of the three areas of music education (general music K-12, instrumental music K-12, or choral music 7-12), you may complete add-on certification requirements in the other two.
4. You may gain certification in conservation by earning a teaching certificate along with your resource management major or minor.
5. You are eligible for teacher certification in natural science and social science only if you take the broad-field majors.
6. You are eligible for certification in secondary science areas only if you have completed the broad-field science major or a major in another science, except that you may obtain certification in physics with a minor if a major in mathematics is completed.
7. To be certified in biology, chemistry, conservation, earth science, or physics, you must have a minimum of 8 semester credits in other science subjects.

## Filing an Application for Teacher Certification

As a graduating senior, apply for an initial license to teach in Wisconsin by filing your application with the teaching certification officer, Room 112, CPS Building. The teaching certification officer will process your application only after you have received your bachelor's degree. Also pick up a copy of the human relations requirement checklist from the School of Education Advising Center, Room 470, CPS Building, and complete it before you graduate.

## Certification in Communicative Disorders

In this sequence you work in a public school with students of all ages (preschool through high school). You receive certification when you complete your master's degree. For further information, see the section entitled *Communicative Disorders* under *Courses of Instruction*.

## Exceptional Education Minors for Elementary and Secondary Teachers

**Early Childhood: Exceptional Educational Needs Minor**  
Complete a major certification program in education, which includes Education 301, and the following 26 credits: Communicative Disorders 266, 366; Education 365, 366, 367, 378, 398.

### Emotional Disturbance Minor

1. *Professional Education*: Complete a major certification program in elementary or secondary education which includes: Education 280, 308

and/or 386, 351, 381, 383, 398, Communicative Disorders 266, and methods courses in your instructional areas.

2. *General Exceptional Education*: Education 356, 362, 368, 378, Communicative Disorders 367.
3. *Emotional Disturbance Specialization*: Education 353, 357, 363, 364, 398.

### Learning Disabilities Minor

1. *Professional Education*: Complete a major certification program in elementary or secondary education which includes: Education 280, 308 and/or 386, 351, 381, 383, 398, Communicative Disorders 266, and methods courses in your instructional areas.
2. *General Exceptional Education*: Education 356, 362, 368, 378, Communicative Disorders 367.
3. *Learning Disabilities Specialization*: Education 326, 353, 363, 364, 398.

### Mild-Moderate Mental Retardation Minor

1. *Professional Education*: Complete a major certification program in elementary or secondary education which includes: Education 280, 308 and/or 386, 326 or 328, 351, 381, 383, 398, Communicative Disorders 266, and methods courses in your instructional areas.
2. *General Exceptional Education*: Education 356, 362, 368, 378, Communicative Disorders 367.
3. *Mild-Moderate Mental Retardation Specialization*: Education 353, 354, 363, 364, 398.

## Exceptional Education, Undergraduate Add-on Certification Programs

If you would like to add these certifications to your regular teaching certifications, obtain program planning sheets from Room 470, CPS Building.

### Multicategorical Special Education Teacher Preparation

To receive certification, fulfill these requirements:

1. *Professional Education*: Complete a major certification program in elementary or secondary education including Communicative Disorders 266; Education 308, 326, 381, 383, 398; methods courses for your instructional areas; Psychology 260.
2. *General Exceptional Education*: Communicative Disorders 367; Education 351, 356, 362, 367, 368, 378.
3. *Area of Specialization*: Learning Disabilities, Emotional Disturbance, Mild-Moderate Mental Retardation: Education 353, 363, 364, 398, Psychology 360.

Also you must student teach in each disability area for which you seek certification. If you only want one certification, you must student teach full-time for at least eight weeks. If you want all three certifications, student teach for at least one semester, and spend at least eight weeks in a separate emotional disturbance placement. To obtain K-12 certification, arrange for placement in both elementary and secondary schools.

## Exceptional Education, Graduate Certification Programs

See the graduate catalog.

## STUDENT TEACHING

Henry St. Maurice, Director of Field Experiences  
Room 112, College of Professional Studies Building  
Phone: (715) 346-2449

In this final step in your preparation for teaching, you receive practical classroom experience in one of several schools which cooperate with UW-Stevens Point in providing this program. All student teachers should expect to be assigned to any cooperating school system depending upon:

- Your personal preferences,
- Availability of qualified cooperating teachers,
- Number of student teachers in the area, and
- Distance from UW-Stevens Point.

Assignments are arranged only by the cooperating school administration and the director of student teaching. IN NO CASE does the student initiate contact with a school administrator or cooperating teacher to arrange an assignment.

Please don't plan to student teach in your home town, in a school from which you graduated, or in a school district in which a relative is currently employed or serves on the school board. Also, don't plan to take other classes while you are student teaching or interning. If you are a transfer student, you must complete at least 9 credits of work on this campus and be admitted to the Professional Education Program before you can student teach.

The semester before you student teach, attend the series of orientation meetings we offer. At these meetings you learn about the requirements for student teaching, where you will teach, and the level at which you will teach.

### General Requirements for Eligibility to Student Teach

1. Be admitted to the Professional Education Program after earning 54 credits. Apply at the School of Education Advising Office, Room 470, CPS Building.
2. Earn a 2.75 GPA in your major, minor, concentration, and education courses (or be in the upper half of your class) to student teach. Earn a 3.00 GPA to be a teaching intern.
3. You must complete methods/techniques courses BEFORE you student teach.
4. The semester before you student teach, submit your completed application forms by the date set by the Office of Field Experiences.
5. Receive the written recommendation by the department chair or associate dean.
6. Present a medical statement indicating that you have been examined within the last year and are free from tuberculosis.
7. Dates of student teaching assignments are set according to the school district semester, not the university semester.
8. You may apply for the intern program described later in this section.

### Student Teaching—Early Childhood Education (Prekindergarten - Grade 3)

This assignment is under different policies depending on program plans. Check with the director of field experiences for more information.

### Student Teaching—Elementary Education

Before student teaching at the elementary level:

1. See *General Requirements for Eligibility to Student Teach*.
2. Complete techniques courses in elementary education.
3. Complete the student teaching application form.
4. Receive the written recommendation of the head of the School of Education.
5. After you complete the above, enroll in Education 398 (student teaching) for 16 credits. Ordinarily, you will teach full days for a full semester following the daily schedule and semester calendar of the cooperating school.

### Student Teaching—Learning Disabilities, Emotional Disturbance, Mild-Moderate Mental Retardation, Early Childhood: Exceptional Educational Needs

Take a minimum of 8 credits of student teaching in each minor in addition to your regular elementary or secondary student teaching.

### Student Teaching—Secondary Education

Apply at the Office of Field Experiences for admission to student teaching. Before student teaching at the secondary level:

1. See *General Requirements for Eligibility to Student Teach*.
2. Complete the techniques courses for the area(s) in which you plan to teach.
3. Complete the student teaching application form.
4. Receive the written recommendations of the chairs of your major and minor departments.

### Student Teaching Plans

#### Plan A: Full Semester Student Teaching

1. Before student teaching, complete at least 75 percent of your work toward the major and all of your minor if you wish to student teach in the minor.
2. Register for 16 credits of student teaching.
3. Spend one semester student teaching full time according to the daily schedule and semester calendar of an approved cooperating school. You could be assigned two half-semester experiences in different subjects or the full semester on one subject.
4. Arrange for your own housing and meals while you are student teaching.
5. You may be asked to return to campus for a seminar or to confer with UW-Stevens Point instructors.

#### Plan B: Special Plan for Art Education Majors

1. Take all your education courses before you student teach.
2. Complete at least 75 percent of your course work in your major and all of the course work in your minor, if you wish to teach in it, before you student teach.



3. If you are majoring in art education, take 16 credits of student teaching for state certification K-12 following the daily schedule and semester calendar of the cooperating school. You will spend one semester student teaching: one-half semester at an elementary school and one-half semester at a secondary school. Although we prefer that you teach at the elementary level first, you may student teach at the secondary level first.
4. Note that student teaching at the junior high level counts toward secondary certification.

#### **Plan C: Special Plan for Communicative Disorders**

If you are a graduate student in communicative disorders, you may take part in a practicum involving 10-15 credits through the clinical semester.

#### **Plan D: Internship for Elementary and Secondary Teachers**

1. If you plan to teach at either the elementary or secondary level, you may be selected to enroll as a teaching intern.
2. Complete your required courses in professional education before you begin your teacher internship. If you are in secondary education, also complete at least 75 percent of the work in your major and all of the work in your minor if you wish to teach it.
3. As an intern, you are a paid member of a public school staff, and you spend an entire semester or year in a school system. During this time, you are involved in experiences covering the entire range and variety of a teacher's duties in and out of the classroom.
4. The number of internships is limited to the number of requests we receive from school systems.
5. Other considerations:
  - a. Contact the Office of Field Experiences to apply for internships.
  - b. To be considered for an internship program, you must earn a cumulative GPA of 3.00 or better and a GPA of 3.00 or better in your major. If you wish to teach in your minor, earn a grade point average of 3.00 in it as well.
  - c. Do not take on-campus courses during the semester of your internship.
  - d. We may ask you to take part in a summer conference.
  - e. Apply for a special intern-teaching license which costs \$25.
  - f. You may be assigned to the fall or spring semester, or both.
  - g. Attend the orientation program presented by the cooperating school system.

### **COURSES IN EDUCATION**

Education courses are also listed under the following headings: Art Education, Communication Education, Communicative Disorders Education, Computer Science Education, Dance Education, Drama Education, Early Childhood Education, English Education, Foreign Language Education, Home Economics Education, Instructional Resources, Mathematics Education, and Music Education.

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 Professional Education Program or School of Education before you can enroll in the course.

**EDUC 101. Preservice Practicum.** 0 cr. Focus on student contact with minority groups. Ten hours from a variety of experiences such as a visit to a reservation, work with minority student organizations at the university level, direct tutoring. Monitored by Cultural Diversity Office.

**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 \*304. Techniques in Language Arts in the Elementary and Middle School.** 3 cr. Principles, aims, methods, and techniques of teaching English with attention to grammar and usage, handwriting, spelling, listening, speaking, and writing.

**EDUC \*308/508. Developmental Reading in Elementary and Middle School.** 3 cr. Materials and methods for teaching reading including basic instructional approaches, readings, research, and readiness.

**EDUC 311. Techniques for Intermediate and Upper Grades—Mathematics, Social Studies, Science.** 4 cr. Principles, aims, methods, and techniques. Three 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: 100 and 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. Two hrs lec, two add'l hrs to be arr per wk.

**EDUC \*325. Techniques in Elementary School—Science.** 3 cr. Principles, aims, methods, techniques, and field experiences. Two hrs lec, two add'l hrs to be arr per wk.

**EDUC \*326. Corrective Reading.** 3 cr. Preventive and corrective measures in teaching reading in kindergarten through grade 8; diagnose causes and apply corrective techniques. Prereq: 308 or cons instr.

**EDUC 327/527. 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: 308, or 386, 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: 308 or 386 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 experiences.

**EDUC \*338. Techniques in Secondary Education—Shorthand and Typing.** 2 cr. Aims, methods, materials, techniques, planning, organization, testing, etc., that apply to high school teaching.

**EDUC \*339. Techniques in Secondary Education—Social Studies.** 3 cr. Aims, methods, materials, techniques, planning, programs, organization, testing, and field experience.

**EDUC 350/550. 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. Teaching the Exceptional Child in the Regular Classroom.** 4 cr. Characteristics and differences of EEN, culturally diverse, and gifted children; alternatives in teaching them in the least restrictive environment. Prereq: Psych 110.

**EDUC 352/552. 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 353/553. Nature and Needs of Exceptional Children.** 3-9 cr. Introduction to needs, theories, and programming practices in educating exceptional children who are learning disabled, emotionally disturbed, mild-moderately retarded; field experience. Subtitle will designate area(s). Prereq: 351 or con reg.

**EDUC 354/554. Life Goals, Coping, and Practical Living Skills.** 3 cr. Methods in assisting in developing goals, living skills, and coping in learning and living for the exceptional student. Prereq: 353.

**EDUC 356/556. Individual Assessment.** 3 cr. Screening, referral, and individual assessment relating to M-Team procedures; 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. Prereq: 351.

**EDUC 357/557. Assessment and Behavior Interventions for Severely Disturbed.** 3 cr. Analysis of psychological needs and development of specific programming interventions, along with provisions for appropriate related services to habilitate severely emotionally disturbed students. Prereq: 353.

**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 361/561. 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: Instructional Resources 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 363/563. Collaborative Individual Program Planning and Evaluation for ED, LD, M-MR Children.** 3-9 cr. Collaborative M-Team assessment, reporting and decision-making, IEP program planning, implementation, on-going evaluation of progress, and modification of programs and collaborative team instruction, including field experience. Subtitle will designate area(s). Prereq: 356/556.

**EDUC 364/564. Curriculum and Methods for Teaching Exceptional Children.** 3-9 cr. Procedures, curriculum, methods, and materials for teaching learning disabled, emotionally disturbed, and mild-moderately retarded individuals. Includes field experience. Subtitles will designate area(s) and level(s). (Sec. 1, elementary; Sec. 2, secondary.) Prereq: 363/563 or cons instr.

**EDUC 365/565. Identification and Assessment of Young Exceptional Children.** 3 cr. Develop skills in identification and assessment procedures in specifying needs and structuring program objectives for young exceptional children, including field experience. Prereq: 351.

**EDUC 366/566. Programming and Methods in Teaching Young Children with EEN.** 3 cr. Instruction programs, classroom organization, methods and strategies designed to teach and habilitate young exceptional children, including field experience. Prereq: 365.

**EDUC 367/567. Needs and Program Strategies for Handicapped Infants and Toddlers.** 3 cr. Special interventions needed for at-risk children in neonatal units and 0-3 age programs/services to habilitate/stimulate for greater functional development and learning. Prereq: 366.

**EDUC 368/568. Career and Vocational Education for Exceptional Children.** 3 cr. Procedures and methods in assessing needs, adapting curriculum, and providing career programs for students with exceptional educational needs. Prereq: 351/551, or cons instr.

**EDUC 370-373/570-573. Workshop in Education.** 1-3 cr. Problems of teaching in elementary and secondary schools. Subtitle will designate area and prerequisites.

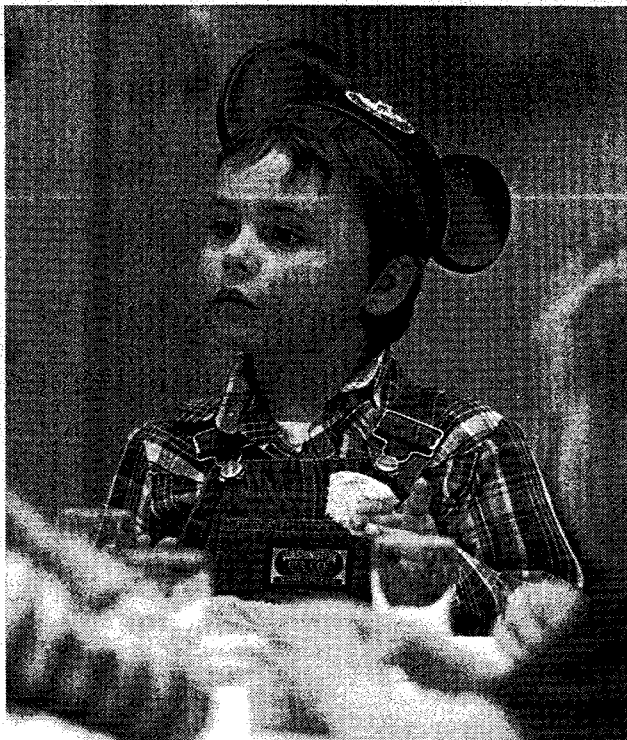
**EDUC 371/571. Aerospace.**

**EDUC 372/572. Techniques of Outdoor Education.** Materials, methods, planning, curricular development, and practicum in outdoor education. Prereq: 350/550 or con reg.

**EDUC 374/574. 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 Exceptional Children and Youth.** 3 cr. Impact of the exceptional child on the family; developing sensitivity for special families; interaction and communication techniques; involving parents, families, and community agencies in educating exceptional children and youth; parent education; advocacy. Prereq: 351.

**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: Psychology 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. GDR: TCI BA BS

**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 387/587. Corrective Reading in Secondary School.** 3 cr. Procedures for content area teachers to analyze and correct student reading problems. Prereq: 386.

**EDUC 388/588. Interpersonal Relations.** 3 cr. Developmental effects of different types of relationships between students and teachers; relationship between types of interactions and student self-concept; methods of improving interpersonal relations.

**EDUC 389/589. 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. Prereq: 386/586.

**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 be repeated once with different subtitle.

**EDUC 394/594. 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. (Undergrad, 1 cr, orientation; 2 cr, develop proposal. Grad, 1 cr, in-depth investigation of one form currently in operation; 2 cr, on-site investigation and proposal for change.)

**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.** LD, ED, MR 5-8 cr. Observe and teach under guidance of cooperating teachers; emphasis on guided teaching in actual classrooms. Subtitle will designate area(s).

**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 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.** 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 706. Experimental and Statistical Methods in Education Research.** 3 cr. Applicability, limitation of experimental methods in education; simplified probability, classical, Bayesian, parametric and nonparametric statistics; use of calculator and computers; experimental designs; literature reviews.

**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 711. Seminar: Problems in Elementary Teaching.** 3 cr. Define problems and issues, examine research literature, review trends in curricula and methods, plan experimental investigation. Open to certified elementary teachers.

**EDUC 712. Seminar: Problems in Secondary Teaching.** 3 cr. Define problems and issues, examine research literature, review trends in curricula and methods, plan experimental investigation. Open to certified secondary teachers.

**EDUC 715. M.E.P.D. Product.** 1-3 cr. Focus on educational research, resources, and final option requirements; required of all M.E.P.D. candidates.

**EDUC 716. The M.E.P.D. Product.** 1-3 cr. A demonstration of professional expertise approved by the advising committee; final option for M.E.P.D.

**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 Education 717 and Economics 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 727. Mastery Teaching.** 2 or 3 cr. Analysis of and practice in classroom decision-making; management of student behavior motivation, transfer of learning, retention, critical attributes of lessons, and principles of learning.

**EDUC 728. Clinical Supervision of Instruction.** 2 or 3 cr. Introduce and develop skill in classroom script-taping. Practice using Madaline

Hunter's six levels of conferencing to provide feedback to student teachers (for cooperating teachers) and classroom teachers (for principals and supervisors).

**EDUC 732. Elementary School Language Arts.** 3 cr. Survey and critical appraisal of programs, basic practices, and trends emphasizing oral and written expression including spelling and handwriting; study individual problems.

**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 734. Elementary School Social Studies.** 3 cr. Curriculum trends and approaches; new content, materials, innovations; needed research in the field.

**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: 308.

**EDUC 742. Literacy and the Young Child.** 3 cr. Study of social and developmental aspects of literacy, including research, programs, and instructional strategies. Prereq: 308, 326 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: 308, 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: 308, 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: 308, 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 school-wide 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 755. Values and Clarification.** 3 cr. Methods for formulating, clarifying, and evaluating beliefs and attitudes toward others and ourselves as we relate to others; understanding of how we determine what is important to us as individuals in a diverse society.

**EDUC 756. Guidance in the Elementary Schools.** 3 cr. Instruments and techniques used in guidance such as observation, concepts of individual appraisal, and methods in group procedures.

**EDUC 758. Education for Cooperating Teachers.** 3 cr. The student teaching program as final phase of the total undergraduate education program, with emphasis upon student teachers and guiding them in planning, teaching, and evaluating learning activities. For in-service teachers who are or will be cooperating teachers.

**EDUC 765. Professional Experience: Secondary.** 8 cr. Teaching and related experiences in area of specialization with team of at least two teachers, a school administrator, and a university graduate faculty member. Prereq: M.A.T. students only.

**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 774. Disturbed, Retarded, and Learning Disabled Students.** 1-5 cr. History, laws, definitions, characteristics, etiology, incidence, program delivery, intervention approaches used in meeting these educational needs. Prereq: 351/551.

**EDUC 775. Identification and Assessment of Young Exceptional Children.** 3 cr. Development of skills in identification and assessment procedures in specifying needs and structuring program objectives for young exceptional children, including field experience. Prereq: 351/551.

**EDUC 776. Programming and Methods in Teaching Young Children with EEN.** 3 cr. Instructional programs, classroom organization, methods and strategies designed to teach and habilitate young exceptional children, including field experience. Prereq: 365 or 775.

**EDUC 777. Needs and Program Strategies for Handicapped Infants and Toddlers.** 3 cr. Special interventions needed for at-risk children in neonatal units and 0-3 age programs/services to habilitate/stimulate for greater functional development and learning. Prereq: 366 or 775.

**EDUC 778. Parent, Home, and Agency Involvement in Educating Exceptional Children and Youth.** 3 cr. Impact of the exceptional child on the family; developing sensitivity for special families; interaction and communication techniques; involving parents, families and community agencies in educating exceptional children and youth; parent education; advocacy. Prereq: 351/551.

**EDUC 779. Curriculum and Programming for Mild-Moderately Handicapped.** 1-5 cr. Development, implementation, and evaluation of instructional approaches to learning, along with the use of appropriate methodologies for mild-moderate handicapped students. Prereq: 556, 563, 774.

**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. Prereq: 779.

**EDUC 781. Teaching Exceptional Children Practicum-Internship.** 4-8 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.** 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 be taken 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 and 317.

**EDUC 799. Thesis.** 2-6 credits.

## EMOTIONAL DISTURBANCE

See *Education*.

## English

(College of Letters and Science)

Stephen Odden, Chair

Room 486, Collins Classroom Center

Phone: (715) 346-4757

**Faculty:** K. Ackley, Behm, P. A. Bloom, T. Bloom, Buchholz, Buggs, W. Clark, Coletta, Decker, De Smet, Dietche, Dieterich, Dorgan, Dixson, Doxtator, Garr, Gifford, Holborn, Lawlor, L. Lewis, Mickelson, Robert K. Miller, Missey, Montgomery, N. Moore, Odden, D. Pattow, R. Pattow, Peplinski, Rose, L. Spangenberg, Sparapani, Stelmahoske, M. Stewart, J. Stokes, R. Stokes, Watson, Young.

### 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 from: 211 (or 323a, 323b, 366) and 212 (or 324, 325, 327).
3. Survey of American literature, 6 credits from: 213 (or 329, 313a) and 214 (or 313b, 320, 360, 382).
4. Language, 3 credits from: 240, 342, 344, 346.
5. Masters, 6 cr from: 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, 375, 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. You may also use English 375 as an elective literature course.
5. Student teaching, 16 credits: English Education 398.

### 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. Literature, 12 credits from: English 200, 274, 275, 283, 375, one 300-level literature course.
2. Language, 6 credits from: English 240, 342, 345, 374.
3. Writing, 6 credits from: English 250, 251, 253, 254, 350, 352, 353, 359.

### 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: 103-170, 203-214, 280-336, 360-366, 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**

Teacher certification requirements for English as a second language are described in the *Foreign Languages* section of this catalog.

**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. To be approved for graduation with an English major or minor you must have a cumulative grade point average of 2.00 in the major/minor including collateral courses. The cumulative GPA is based on your total academic record in English regardless of a declaration of "academic bankruptcy."
4. 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.
5. 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.
6. 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.**

Each entering freshman will complete the freshman English entrance assessment. This writing assessment is an essay you write when you attend an orientation-registration session at this campus.

According to the writing competence you demonstrate on the entrance assessment and on other test scores, you are placed in one of two categories:

1. English 101. The first course in the required freshman English sequence. The course emphasizes the improvement of skills in critical reading, logical reasoning, and effective writing. After successful completion of English 101, you enroll in English 102.
2. English 150. If your test scores indicate superior writing ability, you may be exempt from English 101 and placed in English 150. When you successfully complete English 150, you will satisfy the freshman English requirement.

**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 050. Developmental English.** 3 cr. Required of students whose placement test scores indicate a need for practice in fundamental language skills. Three hrs lec per wk; additional lab work may be arranged. Pass-Fail ONLY. Enroll in this course the semester you begin your college work and remain continuously enrolled until the requirement is complete. Credits do NOT count toward a degree. Upon successful completion, enroll in English 101.

**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). Only 3 cr of 103/203/303 may be applied toward the 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 be taken for credit twice: once each 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 ONLY. An individualized program for writing improvement based on student needs and personal objectives, taught in conjunction with the Writing Laboratory. May be repeated twice, for a maximum of 3 cr among 157, 257, 357.

**ENGL 170. Folklore.** 1-3 cr. Introduction to folklore in its literary forms with reference to the ballad, folk tale, and folk sayings. GDR:HU2

**ENGL 195. Freshman Seminar.** 1 cr. Introduction to English study. Discuss the role of English in the university; examine methods of inquiry and describe research methods used in the discipline; explore career opportunities.

**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 (Br).** 3 cr. Emphasis on major writers from Beowulf through pre-Romantics, stressing insight into their works. GDR:HU2

**ENGL \*212. English Literature (Br).** 3 cr. Emphasis on major writers from the Romantics to the present, stressing insight into their works. GDR:HU2

**ENGL \*213. American Literature (Am).** 3 cr. Emphasis on major writers from Emerson through Twain, stressing insight into their works. GDR:HU2

**ENGL \*214. American Literature (Am).** 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. Expository Writing.** 3 cr. Practice in descriptive, narrative, analysis, and persuasion, including report writing. Some sections may have subtitle to designate area. 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 \*257. Independent Writing.** 1 cr. Pass-Fail ONLY. Same as 157.

**ENGL 260. Computer Aids for English Studies.** 1 cr. A four-week module for English majors or minors. Introduction to uses of computer software in the study of English language and literature.

**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 6 above.)

**ENGL \*275. Children's Literature.** 3 cr. Reading, selection, and presentation of materials suitable for elementary school readers. (See note 6 above.)

**ENGL \*280. American Indian Literature (Am).** 1-3 cr. Literature about the American Indian from oral and written materials by Indian authors, and from materials by other American writers. GDR:HU2

**ENGL 281(NW). 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 the Graeco-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 be repeated 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 be taken 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 be repeated 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 (Br).** 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 be taken 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 (Am).** 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 be taken 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 319/519. 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 323/523. British Literature Before 1790, Excluding Drama.** (Br). 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 be taken once for each period.

**ENGL 324/524. The Romantic Movement (Br).** 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 (Br).** 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 (Br).** 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 (Am).** 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 (Br).** Emphasis on the Canterbury Tales and their historical, social, linguistic background. GDR:HU2

**ENGL 333/533. Shakespeare (Br).** 3 cr. The early plays. GDR:HU2

**ENGL 334/534. Shakespeare (Br).** 3 cr. The tragedies and later plays. GDR:HU2

**ENGL 336/536. Milton (Br).** 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, and 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 (formerly 254).** 3 cr. Writing, editing, and preparing materials for publication, including consideration of reader/editor appeal, and ways to market manuscripts.

**ENGL 350/550. Advanced Expository Writing.** 1-3 cr. The art of expository writing with attention to voice, audience, convincing use of evidence, and development of the writer's individual style. Prereq: 250 or cons chair.

**ENGL 351/551. Advanced Business Writing.** 3 cr. Examine methods of audience analysis and strategies to shape effective written business communication. Prereq: 250, 251, or cons chair.

**ENGL 352. Free-lance 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. Creative Writing (Poetry or Fiction).** 1-3 cr. Training and practice in writing various forms of poetry or fiction; class discussion of student work. May be taken for a maximum of 9 credits, with a maximum of 6 credits under one focus. Prereq: Cons of instr or chair.

**ENGL 354/554. Technical Writing.** 3 cr. Practice in writing technical reports and articles connected with the student's area of specialization. Does not fulfill the writing course requirement for the English major preparing to teach.

**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 ONLY. 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 (Am).** 3 cr. Literature by a small group of authors whose writing reflects the concerns of geographic areas. Subtitle will designate area. May be repeated 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—one for scientists and one for general readership—on contemporary society. Prereq: Jr st. GDR:HU2

**ENGL 366/566. English Drama to Shaw (Br).** 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 374/574. Oral Foundations of Written Composition in Early Childhood.** 1-3 cr. Evaluate and develop language instruction

techniques for children; the preschool and kindergarten child as creator of expressive language; the basis of composition skills. For teachers and prospective teachers in early childhood education. Prereq: Acceptance into early childhood education program; Communicative Disorders 266; English 274 or con reg.

**ENGL 375/575. Literature for Adolescents.** 3 cr. Select and read literature suitable for adolescents. (See note 5 above.)

**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 Criticism.** 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 (Am).** 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 such as "The Jew in American Literature." May be repeated for credit with different subtitles. GDR:HU2

**ENGL 385. Masters of Literature.** 2 or 3 cr. Close, critical study of one or more masters of literature. Subtitle will designate author or authors.

**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 be repeated for a total of 3 credits; does not count toward the English major or 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. GDR:TCI BA BS

**ENGL 394. Tutor Practicum in Reading and Writing.** 3 cr. Theory and practice of individualized instruction in reading and writing. Three hrs classroom instruction and three hrs tutoring in the Academic Achievement 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 be repeated for credit with different subtitles. Prereq: Cons chair.

**ENGL 397. Practicum.** 1-3 cr. Students may, by agreement with the chair and consent of the instructor, arrange for supervised practical experience as tutors, teachers' aides, etc. Approximately 45 hrs of practice will be 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 grade point average 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. A maximum of 3 credits may be applied to the 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 (with subtitle in literature, composition, or creative writing).** 3 cr. Research and discuss problems and techniques of teaching English. May be taken 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.

**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.



## ENGLISH AS A SECOND LANGUAGE

See *Foreign Language*.

## ENVIRONMENTAL COMMUNICATION

See *Natural Resources*.

## ENVIRONMENTAL EDUCATION/INTERPRETATION

See *Natural Resources*.

## ENVIRONMENTAL LAW ENFORCEMENT

See *Natural Resources*.

## Environmental Studies (College of Letters and Science)

Eugene C. Johnson, Associate Dean of the College of Letters and Science

Room 130, Collins Classroom Center

Phone: (715) 346-4224

### Environmental Studies Minor

Consists of a minimum of 24 credits distributed as follows:

1. Required courses: Biology 305; 3 credits from Natural Resources \*370, 474, or 478.  
\*Majors and minors in the College of Natural Resources are not eligible for 370. Everyone else must include 370 and may include 478 among the electives.
2. Electives: Select the remaining credits from the following courses in at least four different departments: Anthropology 342, 350, 347; Economics 204; English 363; Geography 340; History 366; Natural Resources 300, 375, 475, 478, 493; Philosophy 181, 380, 385; Physics 333; Political Science 304; Psychology 321; Sociology 260.

## EXCEPTIONAL EDUCATION

See *Education* for minors in Early Childhood: Exceptional Educational Needs, Emotional Disturbance, Learning Disabilities, and Mild-Moderate Mental Retardation.

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## Experiential Learning Program

F. G. Fritz, Adviser  
Room 103, Student Service Center  
Phone: (715) 346-3361

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 course work.

Prior learning may be evaluated by techniques such as a portfolio assessment, or where appropriate for specific courses, College Level Examination Program (CLEP) examinations and challenge examinations offered by various departments.

After you have formally applied for admission to the university you can request an evaluation of experiential learning for credit. Please follow this procedure for portfolio assessment:

1. Contact the Experiential Learning Adviser (ELA) 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 ELA have determined which credits are to be sought, the ELA will advise you concerning the preparation of detailed and documented portfolios of your adult learning experiences. You will want to consult with your academic adviser and may consult with the ELA, as you develop your portfolio(s) and statements of competencies you believe you have already acquired.
3. Following preparation of the portfolio(s), you may take, or the ELA will send, the materials to the chair(s) of the involved department(s). The faculty member or committee that is assigned to assess your portfolio and determine credit may use your written materials, telephone you, or arrange for a personal interview with you.
4. The interview gives the evaluating faculty member an opportunity to verify information in the portfolio and secure any additional materials needed about the learning experiences you are seeking credit for.
5. After the evaluation is complete, the faculty member will make a written recommendation for or against the award of credit, the amount of credit, and the level of credit, and will submit the recommendation and portfolio to the chair of the

appropriate department for approval or disapproval. The chair will forward the material and final recommendation to the ELA.

6. The ELA 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.

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## Fashion and Interior Design

(College of Professional Studies)

Mary Ann Baird, Associate Dean of the Division of Fashion and Interior Design  
Room 101, College of Professional Studies Building  
Phone: (715) 346-4600

Faculty: Baird, R. Brown, Gagliano, L. Gilles, Glinski, Hoffbeck, Kosters, Pankowski, P. Williams.

### Fashion Merchandising Major

1. Required courses, 21 credits: Fashion and Interior Design 100, 101, 131, 201, 233, 329, 391, 395 or 396, 400.
2. Collateral courses, 9 credits: English 251, Philosophy 304, Psychology 110.
3. Choose one of the following options:
  - a. **Retail/Wholesale Management Option**, 52 credits: Fashion and Interior Design 202, 303, 325, 331, 380, 425, 431; Economics 210, 211; Accounting 210; Business 280, 330, 337, 384; Mathematics 109. Also take 6 credits from Fashion and Interior Design 338, 339, 385, 490; Business 336, 338, 339, 340, 370, 391.
  - b. **International Merchandise Management Option**, 33 credits: Fashion and Interior Design 339, Bus 330, 339 and the International Studies minor (24 credits). A semester abroad or approved foreign study is required.
  - c. **Store Planning Option**, 43 credits: Fashion and Interior Design 110, 204, 211, 212, 216, 305, 314, 318, 390, 405, 418; Art 400; and a minimum of 9 credits from Fashion and Interior Design 311, 313, 360, 399, 412, 490.
4. Computer Information Systems 102, 0-3 credits. Computer literacy is expected in spreadsheet, word processing, and database.

### Fashion Merchandising Concentration in the Business Administration Major

See *Business and Economics*.

### Interior Design Major

1. Sixty-two credits: Fashion and Interior Design 100, 101 (4 cr), 110, 204, 205, 211, 212, 216, 233, 309, 311, 314, 318, 391, 395, 400, 411, 412, 415, 390 or



- 490, and 6 credits from 301, 305, 313, 317, 399, 405, 417, 418.
2. Twelve credits: Art 102, 103, 400, one 3 credit art history course.
  3. Six credits: Psychology 110 and 3 credits of sociology or anthropology to satisfy part of the general degree requirements.
  4. Admission to the interior design professional sequence is determined during the first semester of the sophomore year by faculty committee review based on portfolio presentation and grade point average.
  5. Emphasis in lighting and store design (optional): Fashion and Interior Design 318, 418, 301, 305, and 405.

### Courses in Fashion and Interior Design

**FID 100. Orientation to the Profession.** 1 cr. Explore and develop plan for academic, individual, and professional career objectives.

**FID 101. Color and Design.** 3-4 cr. Color and design in relation to the near environment. Two hrs lec, two hrs studio per wk. Two additional hrs studio for 4 credits. May not earn credit in both Fashion and Interior Design 101 and Art 101.

**FID 110. Architectural Drafting.** 3 cr. Basic study and development of architectural drafting skills; multiview drawings, conventions, lettering, detailing, and printmaking. One hr lec, four hrs studio.

**FID 131. Textile and Apparel Industry Overview (formerly 231).** 3 cr. Industry overview and structural analysis of the textile, apparel, retail, and related industries. Focus on merchandising and marketing activities.

**FID 201. Product Merchandising.** 3 cr. Analyzes contemporary store planning with a retailer's perspective to selling/nonselling space, merchandise management of soft/hard goods inventory assortment. Large/small scale retail space planning for retail environments to fit specific product needs. Prereq: 101.

**FID 202. Social Psychological Aspects of Clothing (formerly 302).** 3 cr. Interaction of cultural, social, psychological, aesthetic, functional, economic, and technical factors in determining the meaning and use of clothing for the individual and society. Prereq: 101, Psychology 110.

**FID 204. Presentation Techniques I.** 3 cr. Basic application of drawing, sketching, and describing architectural interiors and furnishings to communicate design concepts. Six hrs studio.

**FID 205. (formerly 304) Presentation Techniques II.** 3 cr. Advanced application in color drawing, sketching, and describing architectural interiors and furnishings to communicate design concepts. Six hrs studio. Prereq: 204.

**FID 211. Interior Design I.** 3 cr. Analysis of human and environmental factors used to create supportive space for human activity; development of a design methodology. Two hrs lec, two hrs studio. Prereq: 101, Art 102 and 103, or cons instr.

**FID 212. Interior Design II.** 3 cr. Small scale interior space planning with emphasis on function, aesthetics and barrier-free environments. One hr lec, four hrs studio. Prereq: 211 (or con reg) and admission to the interior design program.

**FID 216. (formerly 316) Materials, Furniture, and Technology.** 3 cr. Selection of materials and furnishings based on analysis of human factors, aesthetics, technology, and market availability; processes and resources. Two hrs lec, two hrs studio. Prereq: 211; con reg in 212 required.

**FID 233. Textiles.** 3 cr. From fiber to finished fabric; recognition, testing, purchase, use, and care of textiles. Two hrs lec, two hrs lab per wk. Prereq: So st.

**FID 301. Visual Merchandising.** 3 cr. Apply design elements and principles in commercial display and store planning; explore various media and creative techniques. One hr lec, four hrs studio. Prereq: 101 or Art 101.

**FID 303. Promotion Management.** 3 cr. An integrated study of marketing communication theory, concepts and research with in-depth treatment of all elements of the promotional mix; advertising, sales promotion, personal selling, public relations, and point-of-purchase communication. Prereq: Business 330 and 337.

**FID 305. Store Planning and Design.** 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. Six hrs studio. Prereq: 101, 110, 211, 301.

**FID 309. History of Decorative Arts.** 3 cr. Major periods and styles of architecture, furniture, and accessories used in interior environments. Three hrs lec. GDR:HU1

**FID 310(NW). Asian Decorative Arts.** 3 cr. Major periods and styles of architecture, furniture and accessories. GDR:HU1

**FID 311. Interior Design III.** 3 cr. Office design and systems; programming, schematics and space planning. Criteria for selection of office furnishings and materials. One hr lec, four hrs studio. Prereq: 212 and 216.

**FID 313/513. Architectural Environments.** 3 cr. How technology, culture, economics, and psychosocial needs affect public and private architectural environments.

**FID 314. Architectural Systems.** 3 cr. Aesthetic and technological analysis of structural, mechanical, and lighting systems and materials. One hr lec, 4 hrs studio. Prereq: 211 and 216.

**FID 317. (formerly 312) Structural Decorative Textiles.** 3 cr. Two and three dimensional design principles and color theory applied to pieced fabric design; historical and contemporary approaches. One hr lec, 4 hrs studio. Prereq: 101 or Art 101.

**FID 318. Lighting Design.** 3 cr. Lighting design and technology applied to interior architectural spaces. One hr lec, four hrs studio. Prereq: 314 or cons instr.

**FID 325. Sewn Product Analysis.** 3 cr. Manufacturing sector overview of the textile and apparel industry. Analysis of textile products with focus on quality, performance, and cost decisions relative to product development, sourcing, production, and presentation of ready-to-wear. Prereq: 131, 233

**FID 329/529. History of Costume.** 3 cr. The history of costume from ancient times to the present including non-Western. GDR:HU1

**FID 331. Retail Management Principles.** 3 cr. Analysis of retail industry market structure. Emphasis on development and implementation of competitive strategies. Introduction to management activities of inventory procurement, support services, operations, human resources, strategic planning, and vendor relationships. Prereq: 100, 131, Business 330.

**FID 338. Franchise, Catalog, and Nontraditional Retailing.** 3 cr. An overview of the fastest growing retail modes of operation. Includes the organization and operation of franchise, in-home, direct mail, electronic, video, telephone and television, and vending machine retailing. Prereq: 331.

**FID 339. Textiles and Apparel in the International Economy.** 3 cr. A global perspective on the production and marketing of textiles and apparel with emphasis on the international variables affecting the U.S. industry.

**FID 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.

**FID 380. Merchandise Planning and Control.** 3 cr. Application of inventory planning, procurement and control procedures for profitable product line management. Topics include unit/dollar budgeting, sales trend assessment, forecasting, seasonal budget planning, open-to-buy, vendor relationships, retail accounting, and merchandise systems. One hr lec, four hrs lab per wk. Prereq: 331, Mathematics 109.

**FID 385. Retail Trends Seminar.** 3 cr. Current retail topics and issues not currently covered in course offerings. Seminar/discussion

prompted by investigation, interpretation, analysis of current research literature reviews and professional presentations from industry professionals. Prereq: 331, cons instr.

**FID 390. Fire Safe Design.** 1 cr. Design for egress; analysis of suppression and containment systems, materials and finish selections, codes and resources.

**FID 391/591. Study Tour.** 1-6 cr. Study tours to appropriate industries, museums, or facilities for fashion and interior design students. Subtitle will designate area.

**FID 395. Field Experience.** 3 or 4 cr. A supervised program at a cooperating business site. One hr seminar per wk for 1 cr, plus a minimum of forty hrs arranged at the business site for each additional cr. May be repeated for a total of 9 cr. Prereq: Cons instr.

**FID 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: Cons instr.

**FID 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.

**FID 399. Special Work.** 1-3 cr. Upperclass fashion and interior design majors may arrange for independent study with consent of the associate dean of the division. Credit will be based on the scope of the project.

**FID 400. Professional Development.** 1 cr. Portfolio and resume development. Plan for meeting career objectives.

**FID 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. Six hrs studio. Prereq: 305.

**FID 411. Interior Design IV.** 5 cr. Large scale residential, business principles, practices and ethics; total project development and presentation. Two hrs lec, six hrs studio.

**FID 412. Interior Design V.** 5 cr. Large scale non-residential design and life safety code applications; total project development and presentation. Two hrs lec, six hrs studio.

**FID 415. Problems in Interior Design.** 2-4 cr. Develop and present major project; includes client interaction, research, programming, space planning, visual concept, reports. Two hrs lec per wk; additional hrs to be arranged. May be repeated for a total of 8 cr. Prereq: cons instr.

**FID 417. Applied Textile Design.** 3 cr. Surface design of textiles; printing, tie-dye, batik, and design for industry. Emphasis on fiber, fabric, and usage relationships. Prereq: 101 or Art 101.

**FID 418. Advanced Lighting Design.** 3 cr. Advanced lighting design and technology applied to interior architectural spaces. One hr lec, four hrs studio. Prereq: 318.

**FID 425. Retail Management Strategies.** 3 cr. Study of retail management strategy and policy through case study analysis and literature review. Emphasizes retail strategic planning processes, problem-solving and solution analysis, including individual/group management decision-making, and policy implementation. Prereq: 331, Business 280.

**FID 431. Retail Entrepreneurship.** 3 cr. A seminar/discussion overview of issues related to the formation of small retail businesses. Students prepare and present to a professional jury a realistic business plan for the start-up of an apparel retail business. Prereq: 303, 380, Business 280.

**FID 490/690. Workshop.** 1-4 cr. Subtitle will designate area.

## FASHION MERCHANDISING

See *Fashion and Interior Design*.

## FISHERIES

See *Natural Resources--Water Resources*.

## FOOD SYSTEMS MANAGEMENT

See *Human Development and Nutritional Sciences*.



## FOREIGN LANGUAGE IN THE ELEMENTARY SCHOOL

See *Foreign Languages*.

## Foreign Languages

(College of Letters and Science)

Michael Danahy, Chair  
Room 490, Collins Classroom Center  
Phone: (715) 346-3036

**Faculty:** Assardo, Barker, Danahy, H. Johnson, B. Knowlton, S. Lewis, R. Price, Ruppel, J. Seiler, M. Seiler, Walker.

The Department of Foreign Languages offers courses in Chinese, English as a second language, French, German, Polish, Russian, and Spanish.

To be accepted, retained, and approved for graduation with a major or minor in the Foreign Language Department, you must maintain a grade point average of 2.00 in courses taken within the major or minor, regardless of declaration of academic bankruptcy.

### 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), 340, and one literature course beyond 340.

### 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), and 9 credits in course work outside the department, selected with the approval of the adviser.

**Foreign Language Minor**

1. **French:** Consists of 15 credits in courses at the 300/400 level, including 313, 314, 340, and 381.
2. **German:** Consists of 15 credits in courses at the 300/400 level, including 313, 314, 340, and 381.
3. **Russian:** Consists of 17 credits in courses at the 300/400 level, including 315, 316, 360, 370, and 381.
4. **Spanish:** Consists of 15 credits in courses at the 300/400 level, including 313, 314, 340, and 381 or 382.

**Technical Foreign Language (French, German, Spanish) Concentration in the Business Administration Major**

See *Business and Economics* earlier in this catalog.

**Teacher Certification – English as a Second Language**

To teach English as a second language in elementary school you must be accepted into the Professional Education Program (see Education) and complete the elementary education curriculum with a concentration in English or a foreign language.

To teach English as a second language in secondary school you must be accepted into the Professional Education program (see Education) and complete the secondary curriculum with a major or minor in English or a foreign language.

To teach at either level, you also need the following:

1. Four semesters of college-level foreign language.
2. Demonstrated proficiency in English.
3. English 240 or Anthropology 280; English 342; Anthropology 101 or 310; Communicative Disorders 266. These additional courses are strongly recommended: English 345, 382; Communicative Disorders 260; Foreign Language 320.
4. Education 398 and/or English or Foreign Language Education 397, and Foreign Language Education 333.

**Teacher Certification – Foreign Language Major (General)**

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. See additional requirements for foreign language teacher certification below.

**Teacher Certification – Foreign Language Major (with Concentration in Culture Studies)**

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. See additional requirements for foreign language teacher certification below.

**Teacher Certification – Foreign Language Minor**

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. See additional requirements for foreign language teacher certification below.

**Other Requirements for Teacher Certification in Foreign Language**

To be certified to teach a foreign language, you must complete the teaching major or minor with an overall grade point average of 2.75 in all courses taken within the foreign language major or minor, regardless of declaration of academic bankruptcy. In addition you must fulfill the following special requirements.

1. **Residence Requirement:** 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 are urged to participate in a language-based study abroad program. If this is not possible, however, an appropriate alternative experience for German students, for example, might be residence in the "German House," a special residence hall wing where students use German as the primary language in the dorm setting.
2. **Oral Proficiency Requirement:** To be certified to teach a foreign language at elementary, middle, or secondary level, you must pass an oral proficiency test given by the department before you will be placed for practice teaching. Further information is available from the chair of the Department of Foreign Languages.
3. **Student Teaching:** The chair of the Department of Foreign Languages and the Office of Field Experiences approve student teaching programs. You register for Foreign Language Education 398 (16 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.

**Placement, Advanced Standing, and Credit by Examination**

When you enter UW-Stevens Point as a freshman or transfer student and elect to take courses in French, German, Russian, or Spanish, you will be required to take a placement examination which is part of the University Advanced Standing Program. It works out best if you make arrangements with the department 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 courses 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.

## Courses in Foreign Language (General Courses)

See also the listing under *Courses in Foreign Language Education*, below.

**FLG 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.

**FLG 100. Introductory Conversation.** 2 cr. Subtitle will indicate the language.

**FLG 199/299. Independent Study.** 1-4 cr each. Individual study of foreign language under faculty supervision. Prereq: Cons chair.

**FLG 340/540. Special Language Studies.** 1-3 cr. Special focus on some aspect of a language or the relationship between two or more languages. Subtitle will designate area. May be repeated with different subtitles. Prereq: One yr foreign language study.

**FLG 381. Culture and Civilization.** 2 or 3 cr. Subtitle will indicate the focus. May be repeated for credit with different subtitles. May count toward a major or minor in foreign language with prior cons chair. GDR:HU4

**FLG 399/499. Independent Study.** 1-4 cr each. Individual study of foreign language under faculty supervision. Prereq: Cons chair.

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

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. Techniques in Second Language Instruction.** 3 cr. Aims, methods, materials, techniques, planning, organization, testing, and field experiences in the teaching of foreign languages and/or English as a second language in elementary, middle, and secondary schools. 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. Approximately 45 hours of practice will be required for each credit. Subtitles will identify the type of practicum.

**FLED 398. Student Teaching in Foreign Language.** 1-16 cr. 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, foreign language in the elementary school, or English as a second language.

**FLED 399/599. Special Work.** 1-3 cr. Individual study in second language teaching methods under faculty supervision. Prereq: Cons chair and instr.

**FLED 733. Workshop in Foreign Language Education.** 1-3 cr. Problems of teaching in elementary and secondary schools. Subtitle will designate area. Prereq: Advanced standing in the foreign language education curriculum, or teaching experience.

## Courses in Chinese

**CHIN 101(NW). First Year Chinese.** 4 cr. Elementary modern Mandarin, for students with no previous training in the language. GDR:FL BA BM/BFA

**CHIN 102(NW). First Year Chinese.** 4 cr. Continuation of 101. Prereq: 101 or equiv. GDR:FL BA BM/BFA

**CHIN 200/300; 201/301. Continuing Chinese.** 4 cr each. Intermediate modern Mandarin: further refinement of all language skills, within a framework of intermediate to advanced grammar development; emphasis on knowledge of Chinese characters and development of reading and writing skills. Placement level will be according to ability, but normally students completing Chinese 101/102 will enroll for Chinese 200; students with additional work beyond first-year level may enroll for Chinese 300. Prereq: For 200 is 102; for 201 is 200, or placement; for 300 is 201; for 301 is 300.

## Courses in French

**FREN 101. First Year French.** 4 cr. For students with no previous training in the language, or by placement examination. GDR:FL BA BM/BFA

**FREN 102. First Year French.** 4 cr. Continuation of 101. Prereq: 101, or by placement examination. GDR:FL BA BM/BFA

**FREN 211. Second Year French.** 4 cr. Intensive grammar review in reading and speaking. Prereq: 102, or by placement examination.

**FREN 212. Second Year French.** 4 cr. Continuation of 211. Prereq: 211, or by placement examination.

**FREN 313. Intermediate Conversation.** 3 cr. Prereq: 212, or by placement examination.

**FREN 314. Intermediate Composition.** 3 cr. Prereq: 212, or by placement examination.

**FREN 317. Advanced Conversation and Composition.** 3 cr. Subtitle will designate focus. May be repeated 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 be repeated 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 examination.

**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 be repeated 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. Nineteenth 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 be repeated for credit with different subtitle. Prereq: 340 or cons instr. GDR:HU2

**FREN 355. 18th Century Literature.** 3 cr. Subtitle will designate focus. May be repeated for credit with different subtitle. Prereq: 340 or cons instr. GDR:HU2

**FREN 360. 19th Century Literature.** 3 cr. Subtitle will designate focus. May be repeated 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 be repeated 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 be repeated 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.

### Courses in German

**GERM 101. First Year German.** 4 cr. For students with no previous training in the language, or by placement examination. GDR:FL BA BM/BFA

**GERM 102. First Year German.** 4 cr. Continuation of 101. Prereq: 101, or by placement examination. GDR:FL BA BM/BFA

**GERM 211. Second Year German.** 4 cr. Intensive grammar review. Prereq: 102, or by placement examination.

**GERM 212. Second Year German.** 4 cr. Continuation of 211. Prereq: 211, or by placement examination.

**GERM 313. Intermediate Conversation.** 3 cr. Prereq: 212, or by placement examination.

**GERM 314. Intermediate Composition.** 3 cr. Prereq: 212, or by placement examination.

**GERM 317. Advanced Conversation and Composition.** 3 cr. Subtitle will designate focus. May be repeated 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 be repeated 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 examination.

**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 be repeated 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 be repeated for credit with different subtitle. Prereq: 340 or cons instr. GDR:HU2

**GERM 360. 19th Century Literature.** 3 cr. Subtitle will designate focus. May be repeated 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 be repeated 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 be repeated 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 Polish

**PLSH 101. First Year Polish.** 4 cr. For students with no previous training in the language. GDR:FL BA BM/BFA

**PLSH 102. First Year Polish.** 4 cr. Continuation of 101. Prereq: 101 or equiv. GDR:FL BA BM/BFA

**PLSH 211. Second Year Polish.** 4 cr. Prereq: 102 or equiv.

**PLSH 212. Second Year Polish.** 4 cr. Continuation of 211. Prereq: 211 or equiv.

**PLSH 293. Specialized Studies in Polish.** 1-3 cr. Individual study under faculty supervision. Prereq: Cons chair.

### 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 examination. 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 examination.

**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 be repeated for credit with different subtitle. Prereq: Cons instr. GDR:HU2

**RUSS 370(NW). 20th Century Literature.** 3 cr. Subtitle will designate focus. May be repeated 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 be repeated 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 examination. GDR:FL BA BM/BFA

**SPAN 102. First Year Spanish.** 4 cr. Continuation of 101. Prereq: 101, or by placement examination. 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 examination.

**SPAN 212. Second Year Spanish.** 4 cr. Continuation of 211. Prereq: 211, or by placement examination.



**SPAN 212. Second Year Spanish.** 4 cr. Continuation of 211. Prereq: 211, or by placement examination.

**SPAN 313. Intermediate Spanish Conversation.** 3 cr. Prereq: 212, or by placement examination.

**SPAN 314. Intermediate Spanish Composition.** 3 cr. Prereq: 212, or by placement examination.

**SPAN 317. Advanced Conversation and Composition.** 3 cr. Subtitle will designate focus. May be repeated 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 be repeated 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 examination.

**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 be repeated 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. 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 be repeated for credit with different subtitle. Prereq: 340 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 be repeated 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 PHYSICAL EDUCATION

See *Health Promotion/Physical Education and General Degree Requirements*.

## GENERAL SCIENCE

See *Natural Science*.

## Geography

(College of Letters and Science)

Gary C. Meyer, Geography and Geology Department  
Chair

Room D-332, Science Building

Phone: (715) 346-2629

Faculty: Detwyler, Heywood, Kapter, Lemke, G. Meyer, Milfred, Ofori-Amoah, Oszvath, Parry, K. Rice, Ritter, Youngbear-Tibbetts.

### Geography Major

Consists of a minimum of 34 credits and must include one of the three options listed below. *The core of required courses in each option consists of 16 credits: Geography 101, 113 or 120, and 276, 380, 490.*

1. **Physical environment option:**
  - a. The core courses.
  - b. Geography 340 or 344, 352, 353, 377 or 379 or 476.
  - c. Additional courses selected from the following list to total 34 credits in Geography/Geology: Geography 340 or 344, 354, 375, 377 or 379 or 476; Geology 330, 370.
  - d. Recommended courses: Biology 305; Soils 260, 362; Geology 201; Mathematics 355; Computer Information Systems 101-102; Water 180.
2. **Cartographic option:**
  - a. The core courses.
  - b. Geography 376 or 386, 377, 379, 382, and 476.
  - c. Additional geography courses to total 34 credits.
  - d. Recommended courses: Geography 376 or 386 (whichever was not taken in (b) above); Computer Information Systems 101-102, 110 or 112, 365; Mathematics 355; additional upper-level course work in physical, human, and/or regional geography.
3. **Urban-economic option:**
  - a. The core courses.
  - b. Geography 110, 270 or 272, 367, 373, and 377 or 379.
  - c. Additional geography courses to total 34 credits.
  - d. Recommended courses: Economics 100; Natural Resources 480; Mathematics 355 or Economics 310; Sociology 356, 357; Political Science 242, 341; 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.

**Notes:**

1. Geography courses taken at the 300- or 400-level on a pass/fail basis will NOT be credited toward the major or minor.
2. To be accepted and retained as a major, and to be approved for graduation, you must have a minimum grade point average of 2.00 (2.75 to student teach) in all courses taken within the geography major, regardless of a declaration of academic bankruptcy. The department chair may allow exemptions on a conditional basis.
3. 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.

**Geography Minor**

Consists of 22 credits of which at least 6 credits must be 300-level or above.

1. Geography 101, 110 or 120.
2. At least one course from each of the following groups:
  - a. Geography 113, 211, 226 or 326, 300, 301, 302, 327, 328, 329, 330.
  - b. Geography 270, 272, 340, 344, 369, 373, 374, 375.
3. Additional credits to total 22 (may include International Studies 423).

**Geography Minor for Teacher Certification**

Consists of Geography 101, 110, 113, 120, 211, 276, 380.

**Courses in Geography**

**GEOG 100. The Physical Environment Under Stress.** 3 cr. Selected physical geographic principles and processes that apply to human use of the earth; introduction to problems of atmosphere, climate, water, landforms, soils, and vegetation. Two hrs lec, two hrs lab per wk; field trip(s) may be required. Does not apply toward general degree requirements if 101 is also taken. GDR:NS

**GEOG 101. The Physical Environment.** 5 cr. Introduction to modern physical geography: maps and map reading, energy balance, weather and climate, water, soils, vegetation, and landforming processes; dynamic relations among physical elements; the importance to humans of the physical environment. Three hrs lec, four hrs lab per wk. Field trip(s) may be required. Does not apply toward general degree requirements if 100 is also taken. GDR:NS

**GEOG 108/308. Environmental Issues Through Films.** 2 cr. Films, with background lectures and class discussion, used to develop various perspectives on, and explore basic solutions to, selected environmental issues. Most films show case examples. May not be taken concurrently with Geography 340/540.

**GEOG 110(NW). Economic Geography.** 3 cr. Introductory analysis of economic activities to include agriculture, mining, forestry, fishing and manufacturing; field trip(s) 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 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 270. Geography of Transportation.** 3 cr. Survey and analysis of carriers, terminals, and routes of the world, with emphasis on commodity flow and traffic patterns. Prereq: So st. GDR:SS1

**GEOG 272. Geography of Manufacturing.** 3 cr. Distribution of manufacturing with emphasis on northeastern United States, the nations of Europe, and eastern Asia. Field trip(s) may be required. 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. Two hrs lec, three hrs lab per wk. Prereq: So st.

**GEOG 300/500(NW). Africa.** 3 cr. Regional interpretation; distribution and activities of peoples in relation to physical and cultural patterns and various stages and problems of development. GDR:SS1

**GEOG 301/501(NW). Middle America.** 3 cr. Mexico, Central America, and the Antilles: landforms, climate, natural vegetation, resources, population, historical evolution, political divisions, and economic organization. GDR:SS1

**GEOG 302/502. 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.

**GEOG 303/503. Geography of Indian Lands.** 3 cr. History and development of U.S. policies, judicial decisions, and plenary and executive powers which have shaped contemporary Indian country. Emphasis on sovereign and jurisdictional considerations in the conservation, preservation, and development of Indian lands and resources. Prereq: Jr st or cons instr; Geography 120 recommended.

**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 (excluding the Soviet Union). GDR:SS1

**GEOG 330/530(NW). The Soviet Union.** 3 cr. Geographic interpretation of the USSR in terms of environmental conditions, historical circumstances, technological development, and Marxist-Leninist ideology. 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. Two hrs lec, two 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. Two hrs lec and two hrs lab per wk. Field trip(s) may be required. Prereq: 353, or 101 and cons instr.

**GEOG 367/567. Locational Analysis of Economic Activities.** 3 cr. Spatial patterns of economic activities with emphasis on agriculture, manufacturing, transportation, and retailing.

**GEOG 368/568. World Populations and Resources.** 3 cr. Distribution and characteristics of resources; analysis of selected populations, their resource bases and related problems. GDR:SS1

**GEOG 369/569. Political Geography.** 3 cr. Geographical interpretation of selected political areas; the political significance of cultural and physical aspects of such areas.

**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. GDR:SS1

**GEOG 374/574. Geography of Agriculture.** 3 cr. Historical development of agriculture; characteristics and locational factors of current world agricultural production. GDR:SS1

**GEOG 375. Mineral Resources.** 3 cr. Distribution and production of world mineral resources, including conservation principles. GDR:TCI BA BS

**GEOG 376. Map Development and Symbolization.** 3 cr. Data manipulation and presentation, centering on cartographic symbols and their application to different mapping problems. Two hrs lec, three 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. Two hrs lec, two hrs lab per wk. May not earn credit in both Geography 377 and Natural Resources 377.

**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 trips 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, statistical methods, spatial analysis, field observation and mapping, surveys and questionnaires, problem formulation and hypothesis testing, synthesis and presentation of geographic materials. Prereq: 276 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. Two hrs lec, three hrs lab per wk. Prereq: 276 or cons instr.

**GEOG 388/588. Seminar in Tribal Sovereignty.** 3 cr. Examine aspects of sovereignty of Indian nations recognized by the U.S. Constitution, courts, and Congress. Synthesize interdisciplinary perspectives of tribal sovereignty. Research paper and field trip required. Prereq: Jr st, cons instr, or completion of all other course work for tribal sovereignty minor.

**GEOG 391/591. Special Topics.** 1-3 cr. Subtitle will designate topic of geographical interest. May be repeated 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 be repeated for credit with change in locale or

topic. Credit may not be earned in Geography 393 and Geology 393 or Anthropology 393 under the same locale or topic. Field trip fee may be required.

**GEOG 395/595. Directed Study.** 1-3 cr. Students may, by prior arrangement with an instructor, 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 prior agreement of the instructor. Results will be publicly presented. Prereq: Cons chair.

**GEOG 476/676. Geographic Information Systems.** 3 cr. Introduction to computer-based information systems for environmental management. Definition and evaluation of the functions of a spatial information system. Use of microcomputer-based software to capture, encode, retrieve, process, and display many types of geographic data in conducting site analysis studies and cartographic modeling. Prereq: Any geography or geology course, or cons instr.

**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 be repeated once for up to a maximum of 12 credits. Prereq: Jr or sr st, 9 credits of 300/400 geography course work, and cons intern director.

**GEOG 490. Senior Research Seminar.** 2 cr. Written and oral presentation of a geographical research project. Topics emphasized include problem formulation and hypothesis testing, and research design and methods. Prereq: 276, 380, and sr st.

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

## Geology

(College of Letters and Science)

Gary C. Meyer, Geography and Geology Department  
Chair

Room D-332, Science Building

Phone: (715) 346-2629

### Geology Minor

Consists of 22 credits:

1. Geology 104 and 105.
2. Geology 200 and either 201 or 330.
3. Remaining credits selected from Geology 201, 310, 330, 352, 370, 385, 391, 393 (maximum of 3 credits), 395, 475, 487, 489, 495; Geography 352, 375, 377, 379; Biology 311.

### 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. Two hrs lec, two hrs lab per wk; field trip(s) may be required. Does not apply toward general degree requirements if 101 is also taken. 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. Three hrs lec, two hrs lab per wk; field trip(s) may be required. GDR:NS

**GEOL 105. Historical Geology.** 4 cr. Survey of the history of the earth and life; emphasis on the evolution of continents. Three hrs lec, two hrs lab per wk; field trip(s) may be required. Prereq: 100 or 101 or 104 or consent. GDR:NS

**GEOL 106. Earth History.** 1 cr. Development of the earth through time. Prereq: 104 or con reg. May not earn credit in both 105 and 106.

**GEOL 200. Mineralogy.** 3 cr. Introduction to descriptive mineralogy with emphasis on common ore and rock forming materials. Prereq: 101 or 104; or Chemistry 105 or 115.

**GEOL 201. Structural Geology.** 3 cr. Properties, relationships, and positions of the component rock masses of the earth; graphic and stereographic projection methods of solving structural problems. Prereq: 101 or 104 or equiv.

**GEOL 295. Directed Study.** 1 or 2 cr. Students may, by prior agreement with an instructor, arrange for directed study of a geological topic. Prereq: Cons instr.

**GEOL 310. Petrology.** 3 cr. Study of the formation, identification, and classification of rocks; emphasis on hand specimen identification. Two hrs lec, two hrs lab per wk. Prereq: 200.

**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. Prereq: 101 or 104 or cons instr. (II)

**GEOL 352/552. Geomorphology.** 3 cr. Characteristics, origin, and development of landforms. Two hrs lec, two 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 cons instr.

**GEOL 385/585. Field Techniques in Hydrogeology.** 2 cr. Well drilling and installation, sampling, slug tests, pump tests, completing well logs, field chemical analysis, geophysical techniques. Prereq: Water 180, Geology 104.

**GEOL 391/591. Special Topics.** 1-3 cr. Subtitle will designate topic of geological interest. May be repeated 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 and field notebook. May be repeated with change in locale or topic. Credit may not be earned in Geology 393 and Geography 393 or Anthropology 393 under the same locale or topic. Field trip fee may be required.

**GEOL 395/595. Directed Study.** 1-3 cr. Students may arrange for directed study of a geological topic with prior agreement of the instructor. Prereq: Cons instr, and a 300-level geology course.

**GEOL 475/675. Groundwater Management.** 3 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 475 and Water 475. Prereq: 489.

**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 be repeated once for up to a maximum of 12 credits. Prereq: Jr or sr st, 9 credits of 300/400 geology course work, and cons intern director.

**GEOL 487/687. Geochemistry of Natural Waters.** 3 cr. Factors controlling the chemistry of surface and subsurface waters; hydrochemical behavior of contaminants; groundwater quality management. May not earn credit in both Geology 487 and Water 487. Prereq: Chemistry 106 or 116; Water 180, or cons instr.

**GEOL 489/689. 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. Two hrs lec, two hrs lab per wk. May not earn credit in both Geology 489 and Water 489. Prereq: 101 or 104, Water 180, or cons instr. (II)

**GEOL 495/695. Application of Computer Modeling to Hydrogeology.** 3 cr. Introduction to existing computer models and modeling techniques practiced in hydrogeology. Apply modeling options to fit realistic problems of geologic variability: surface-groundwater

interaction, contaminant transport, groundwater management, and predictions. May not earn credit in both Geology 495 and Water 495. Prereq: 489 or Water 489.

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

## GERMAN

See *Foreign Languages*.

## GERONTOLOGY

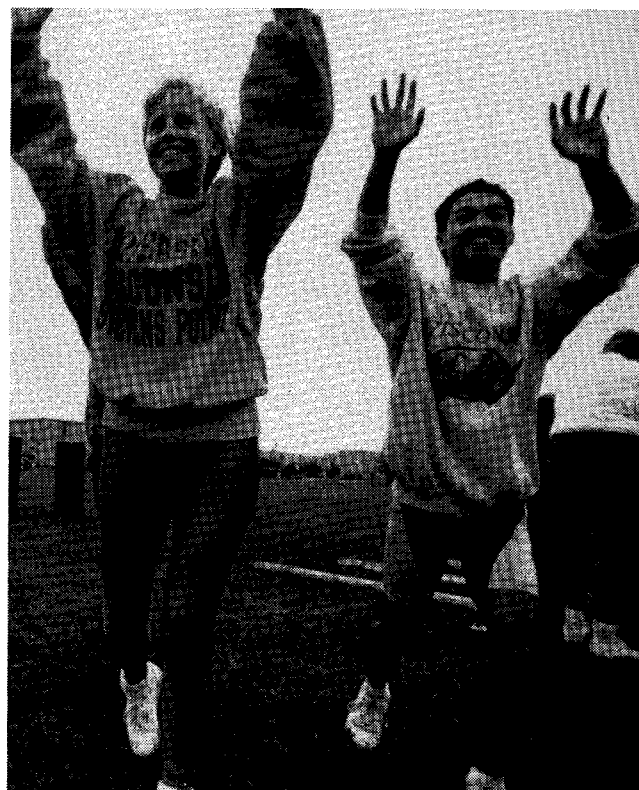
See *Sociology*.

## GRAPHIC DESIGN

See *Art and Design*.

## HEALTH EDUCATION

See *Health Promotion/Physical Education*.



## Health Promotion/ Physical Education

(College of Professional Studies)

John W. Munson, Associate Dean and Head, School of Health, Physical Education, Recreation, and Athletics (HPERA)

Room 127, Physical Education Building  
Phone: (715) 346-3147

**Faculty:** Abbott, Baldorotta, Biddlestone, Blair, Bowen, Crandall, Egner, Frazier, Gorell, Gotham, Hebert, Herrold, L. Hill, Holland, J. Jones, Kasson, Loy, J. Miech, S. Miech, Miner, Munson, O'Brien, O'Connell, Owens, Page, Parker, Semling, R. Steiner, Stellwagen, R. Witt.

**Note:** Courses leading to the completion of a professional program offered in the School of Health, Physical Education, Recreation, and Athletics (physical education, coaching, health education, health promotion/wellness, physical education for the exceptional individual, safety and health protection) may NOT be taken pass-fail.

**Health Promotion/Physical Education Major**

Consists of two options:

**1. Comprehensive physical education for K-12 teacher certification, 51 credits:**

- a. Required: Physical Education 105, 110, 115, 125, 126, 127, 128, 215, 220, 247, 271, 310, 312, 315, 331, 332, 360, 380, 391, 398, 428; General Physical Education 123; Physical Education for Exceptional Individual 300, 301; Coaching 351.
- b. Collateral requirements:
  - 1) Laboratory science: Biology 160, 285; Chemistry 101 or Physics 101
  - 2) GDR requirements for DPI certification: History 120 or 130 or 211, and 212; Psychology 110; Political Science 201.
- c. To be admitted into the physical education program, you must complete an application form and meet with the director. Continuing students in the physical education major must get the signature of their HPERA adviser.
- d. 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.
- e. You must earn a grade of C or better in required courses taken in the major. Any course with an earned grade of C- or lower must be repeated.
- f. You must have a cumulative grade point average of 2.50 to be admitted to the Professional Education Program and a 2.75 cumulative grade point average before student teaching. To transfer into or continue in the physical education major, you must have a 2.50 GPA after completing 40 credits of university courses.
- g. A swimming test is required in the first semester you register as a physical education major.
- h. A physical fitness assessment is required for all physical education majors each semester.

**2. Health promotion/wellness (HP/W), 57-60 credits:**

- a. Laboratory science: Biology 160, Chemistry 101 or Physics 101. Preprofessional majors should see their advisers for specific requirements.
- b. Required: General Physical Education 123 or Physical Education 253; Physical Education 126, 271, 312; Health Promotion/Wellness 101, 201, 204, 245, 300, 301, 320, 360, 399, 401, 420, 450.

- c. Collateral courses: Human Development 265, Food and Nutrition 353, Natural Resources 395, Psychology 385 and the prerequisites necessary for these courses.
- d. If you wish to major in health promotion/wellness, you must apply for acceptance before you have completed 60 credits. To be accepted you must have completed or be enrolled in Physical Education 126, 271; Psychology 110; Biology 285; Human Development 265; Natural Resources 395; HP/W 101, 201, 204, 245. You must also have a grade point average of 2.50 from all the grades earned in the major.
- e. After receiving approval from your HPERA adviser, complete ONE of the following:
  - 1) A minor of 18-25 credits: safety and health protection, business, communication, gerontology, health education, nutrition, psychology, recreation, sociology, camp and youth agency administration and programming. (Please find specific requirements for each minor in that department's listings.)
  - 2) Two 9-credit career orientation sequences:
- f. You must earn a C or better in courses required in the major. You must pass each Health Promotion/Wellness 360 (Practicum) with at least a grade of B before you will be allowed to apply for an internship experience.
- g. You need a minimum of 2.75 cumulative grade point average and current certification in First Aid and CPR before you are accepted for internship.

**Career Orientation Sequences for the Health Promotion/Wellness Option**

This sampling of courses will provide you with an opportunity for depth within the health promotion/wellness field. You must meet prerequisites required by each department. Select two 9-credit career orientation sequences. You must have your adviser's approval before beginning a career orientation sequence.

- 1. **Child and Family:** Human Development 362, 367, 466, 486; Sociology 224, 225, 240.
- 2. **Youth Agency Programming and Camp Management:** Natural Resources 368, 376, 382, 383.
- 3. **Gerontology:** Home Economics Education 390; Economics 328; Food and Nutrition 458; Political Science 306; Sociology 260, 265, 308, 328, 366, 367, 460, 467; Psychology 465.
- 4. **Food and Nutrition:** Food and Nutrition 357, 393, 450, 456; Food Systems Management 342, 347, 452.
- 5. **Psychology:** Psychology 250, 290, 301, 320, 330, 345, 401, 480.
- 6. **Media Presentation:** Home Economics Education 390; Instructional Resources 331, 332; Communication 322, 323, 330, 365, 394.
- 7. **Athletic Training/Sports Specialist:** Physical Education 310; Coaching 351, 371, 372, 381, 382.
- 8. **Preprofessional:** See your adviser for recommended courses.



9. **Business:** Business 280, 330, 336, 337, 338, 339, 340, 343, 344, 381, 384, 385, 386; English 251.
10. **Physical Education for the Exceptional Individual:** PEX 300, 301, 315, 319, 335, 397.
11. **Sociology of Health:** Sociology 306, 308, 316, 364, 368.

### Coaching Minor

Consists of 23 credits:

1. Coaching 181, 351, 361, 371, 372; Physical Education 271, 391.
2. At least three courses from Coaching 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293.

### Health Education Minor

Consists of 24 credits:

1. Biology 285; Health Education 104, (three modules), 140, 145, 340, 427; Food and Nutrition 351.
2. Choose one of the following: Health Education 390, Psychology 290, Sociology 306.

Health promotion/wellness majors may substitute Health Promotion/Wellness 245 for Health Education 145, and Food and Nutrition 353 for Food and Nutrition 351.

If you are preparing to teach, you must take Health Education 398 (Student Teaching) at all levels in which you are seeking certification.

### Physical Education for the Exceptional Individual Minor

Consists of 23 credits:

1. Required courses: PEX 200, 305, 315, 335, 397; Communicative Disorders 252; Education 398. One course from Education 353, 354, or 366. One course from Human Development 261, Psychology 260, or Sociology 265 to meet the social science requirement.
2. Recommended collateral courses: Communicative Disorders 108; Psychology 301, 375.

### Safety and Health Protection Minor

The purpose of this minor is to develop a professional training program which offers a synergistic approach to risk prevention for the work force by integrating a health protection/health promotion curriculum encouraging cross-training of professionals. Must be health/promotion major or obtain special permission for enrollment.

Consists of 21 credits:

1. Required: Safety and Health Protection 210, 255, 310; Health Promotion/Wellness 300, 360 (with SHP subtitle).
2. Required collateral courses: Communicative Disorders 251; Fashion and Interior Design 360; Natural Resources 330.
3. Option: Communicative Disorders 351 is recommended if you want to do industrial threshold hearing testing.

### Health Promotion/Wellness Career Orientation Cluster for Nonmajors

Consists of 18 credits. Choose from Physical Education 102, 312; HP/W 101, 245, 300, 320, 420, 399; Food and

Nutrition 353; Psychology 385. You must have special permission of Health Promotion/Wellness director, or the department offering the course.

### Athletic Training Course Sequence

These 16 credits lead to eventual certification from the National Athletic Trainer's Association as a certified athletic trainer. This sequence is offered in combination with the comprehensive physical education (K-12) teaching major. Take Health Education 104; Coaching 372, 381. Choose one from each pair: Food and Nutrition 253 or 351; Psychology 260 or 315.

### 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 Physical Education for the Exceptional Individual 300, 301, 315, 335, 397 and Education 351.

**Courses in General Physical Education (GPE) GPE 100 to 199. General Physical Education.** 1 cr. each. Developmental, individual, recreational, and educational activities which lead to health maintenance, cardiovascular efficiency, fitness and self-care skills. Specific activities and course numbers will be listed in the timetable.

### Notes:

1. In order to get a bachelor's degree, you must take 4 credits of general physical education (GPE), 2 credits in aerobics/activities courses and 2 credits in health enhancement courses. Most of the GPE courses apply to the aerobics/activities category. GPE 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 4-credit graduation requirement. A specially designed physical education program is available if you have a disability or chronic medical problem. Please contact the HPERA office for more information.
2. **ATTENTION ATHLETES: WSUC/WWIAC** eligibility rules require a 12-hour study load in each semester. General Physical Education 195 and 196 (Athletics) may not be counted in these 12 credits.
3. If you transfer to this university, you are expected to fulfill the physical education requirement on the basis of 1 credit per year at UW-SP.
4. You may take more than 4 credits of general physical education courses. Credit in these courses will satisfy general elective options, and will count toward graduation.

### Courses in Coaching

**COAC 181. Theory and Techniques of Officiating.** 2 cr. Rules and mechanics of officiating interscholastic sports of football, basketball, volleyball, and baseball/softball. Field work required.

**COAC 282-293. 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.

**COAC 351. Athletic Training and Taping.** 2 cr. Cause, treatment, and prevention of injuries common to athletic activities; taping, bandaging; discussion of such topics as rehabilitation, conditioning, and variable factors of athletic performance levels. Prereq: Valid first aid certificate or medical self-help certificate; Phy Ed 271.

**COAC 361. Practicum in Coaching.** 2 cr. Practical experiences in coaching sports at various educational levels. One hr lec, two hrs lab per wk. Prereq: Coaching 181 and at least one 282-293 course.

**COAC 371. Scientific Concepts of Coaching.** 3 cr. The study of sport biomechanics and sport physiology. Prereq: Physical Education 271.

**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: 351.

**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 be repeated for maximum of 6 credits.

**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 HPERA.

**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 be repeated for maximum of 6 credits.

## Courses in Health Education

**HLED 104. Current Health Issues.** 1-4 cr. Factual information to provide essential knowledge for healthful living. GDR:PE/HE  
Module 1: Mental-Emotional Health/Stress Management, 1 cr.  
Module 2: Aging, Death and Dying, 1 cr.  
Module 3: Disease, Environment, Consumer Health, 1 cr.

**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:PE/HE

**HLED 145. Introduction to Health Education/Promotion.** 3 cr. Development of health/wellness in the school, community, and worksite, based on a public health context. Emphasis on the development of the health education/promotion professional.

**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.

**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, 145.

**HLED 390. 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 be repeated for maximum of 6 credits.

**HLED 398. Student Teaching in Health Education.** 1-8 cr. 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 HPERA.

**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 790. Seminar in Current Issues.** 1-3 cr. Subtitle will designate focus.

**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 HPERA.

**HLED 797. Workshop in Health Education.** Variable credit. Participate in special graduate-level experiences related to your major program. Subtitle will designate area. May be repeated for maximum of 6 credits.

## Courses in Health Promotion/Wellness

**HP/W 101. Careers in Health Promotion/Health Protection.** 1 cr. Introduction to seven dimensions of wellness, career opportunities in wellness and occupational health and safety; skills and competencies required, content areas, areas of specialization, introduction to professional organizations and journals.

**HP/W 201. Personal Wellness for Preprofessionals.** 2 cr. Assess your personal wellness in each dimension; explore variables contributing to personal excellence; complete a behavior change project.

**HP/W 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: 201.

**HP/W 245. 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: HP/W 204; and SHP 210 for safety and health protection minors.

**HP/W 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: 101, 201, 245; and SHP 210, 255, 310 for safety and health protection minors.

**HP/W 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: 101, 201, 204, and acceptance into wellness major.

**HP/W 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: 201, 204, 245, 300.

**HP/W 360. Practicum in Health Promotion/Wellness.** 1-6 cr. Practical experience as a preprofessional in health promotion/protection, with an emphasis on behavior facilitation and health promotion/protection. Special sections offered each semester. Prereq: 245, 300, 301, 320; Physical Education 312; Food and Nutrition 353; Psychology 385. Safety and health protection minors must also have SHP 210, 255, 265, 310, and Fashion/Interior Design 360.

**HP/W 399. Special Work.** 1-3 cr. Upperclass health promotion/wellness majors and graduate students may arrange for independent study after defining learning objectives of the project and getting approval of faculty sponsor. Credit will be based on scope of the project. Prereq: Cons instr and HP/W director.

**HP/W 401. The Health Promotion Professional.** 1 cr. Transition from student to professional; prepares you to enter internship and job market. Must be taken last semester before internship.

**HP/W 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: 320, Physical Education 312, Food and Nutrition 353, Psychology 385.

**HP/W 450. Internship in Health Promotion/Wellness.** 12 cr. A full semester participation in a community or worksite health promotion/protection setting. Prereq: Completion of ALL course work; a grade of B or higher in HP/W 360; a 2.75 cumulative grade point average; certification in First Aid and CPR.

## Courses in Physical Education

**P ED 102. The Healthy American.** 2 cr. Design, prescription, and implementation of personal exercise programs; lifestyle assessment, diet techniques, stress management fitness theory. Eight wks lec (two hrs per wk), eight wks independent activity study. GDR:PE/HE

**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 110. Tumbling and Rhythmic Gymnastics (formerly 225).** 1 cr. Skills/methods of teaching tumbling and rhythmic gymnastics to include Laban's theories of movement applied to the K-12 physical education curriculum.

**P ED 115. Dance Foundations I.** 1 cr. K-12 dance and dance skills/knowledge in folk, square, and ballroom dance.

**P ED 125-128. Introductory Teaching Skills.** 2 cr each.

125. Softball, field sports, basketball, volleyball (fall).

126. Aerobic dance, weight training, health-related fitness assessment and programming (spring).

127. Tennis, archery, golf, badminton (fall).

128. Winter recreation, bowling, cycling, personal defense, track and field (spring).

**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). General physical education substitutions may be approved. Prereq: Cons instr.

**P ED 215. Dance Foundations II.** 1 cr. K-12 dance and dance skills/knowledge in line, round, and children's dance to include creative dance (Laban's theory of movement), story plays and novelty dances. Prereq: 115 or cons instr.

**P ED 220. Foundations of Motor Learning (formerly 120).** 3 cr. Introduction to motor learning theory, principles, and practices in exercise programming, physical conditioning, and motor skill development. Prereq: 110, 125, 127, or cons instr.

**P ED 231. 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. Three hrs per wk plus field work. Prereq: So st. GDR:PE/AA

**P ED 232. 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. Three hrs per wk plus field work. Prereq: So st.

**P ED 247. Emergency Water Safety/Water Safety Instructor.** 2 cr. Knowledge and skills necessary to respond to aquatic emergencies and to teach swimming and aquatics safety. Prereq: Pass intermediate swimming skills test.

**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 271. Human Anatomy.** 3 cr. The skeletal, muscular, circulatory, respiratory, and nervous systems of the human body. Prereq: So st.

**P ED 310. Kinesiology.** Study of body movement and principles which affect movement. Prereq: 271, or cons instr.

**P ED 312. Physiology of Exercise.** 3 cr. Effects of exercises of speed, strength, skill, and endurance; nature of muscular behavior; fatigue; effects of exercise with respect to nutrition, age, sex, and occupation. Prereq: Biology 285.

**P ED 315. Dance Foundations III.** 1 cr. Methods, materials, and fundamental principles for teaching dance and rhythmic activities in K-12 physical education programs. Prereq: 115, 215, or cons instr.

**P ED 331. Elementary School Physical Education.** 3 cr. Emphasis on preschool through grade three; field work required. Enrollment limited to physical education majors. (fall)

**P ED 332. Upper Elementary/Middle School Physical Education.** 3 cr. Emphasis on physical education activities for grades 4-8; field work required. Prereq: 331. (spring)

**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 360. Practicum in Physical Education.** 2 cr. Practical experience working with individuals in schools or wellness sites; must be taken prior to student teaching or internship. Prereq: Cons instr.

**P ED 380. Tests and Measurements in Physical Education.** 3 cr. Analysis and construction of tests, interpretation of data and measurements in physical education.

**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.

**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 be repeated for maximum of 6 credits.

**P ED 398. Student Teaching in Physical Education.** 1-16 cr. 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 HPERA.

**P ED 428. Techniques and Curriculum in Secondary Education: Physical Education.** 3 cr. Methods, materials, and fundamental principles in curriculum development; may be taken no earlier than one semester prior to student teaching.

**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 HPERA.

**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 be repeated for maximum of 6 credits.

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. Prereq: Health Ed 145.

**PEX 300. Physical Education for Exceptional Individuals.** 2 cr. Intervention strategies in the psychomotor domain. Prereq: Con reg in 301; Education 351 or con reg.

**PEX 301. Physical Education for Exceptional Individuals: Practicum.** 1 cr. Hands-on intervention with handicapped children in aquatics and motor development. Prereq: Education 351 or con reg.

**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.** 2 cr. Assessment and prescription of exercise, recreation and

health enhancement programming for the elderly. Prereq: Biology 319 or con reg.

**PEX 335. Assessment and Prescription in the Motor Domain for Exceptional Individuals.** 2 cr. Prereq: 300, 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 (PEX).** 1-8 cr. Observation and teaching of adapted physical education under the guidance of cooperating teachers and university faculty.

## Courses in Recreation

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

## Courses in Safety and Health Protection

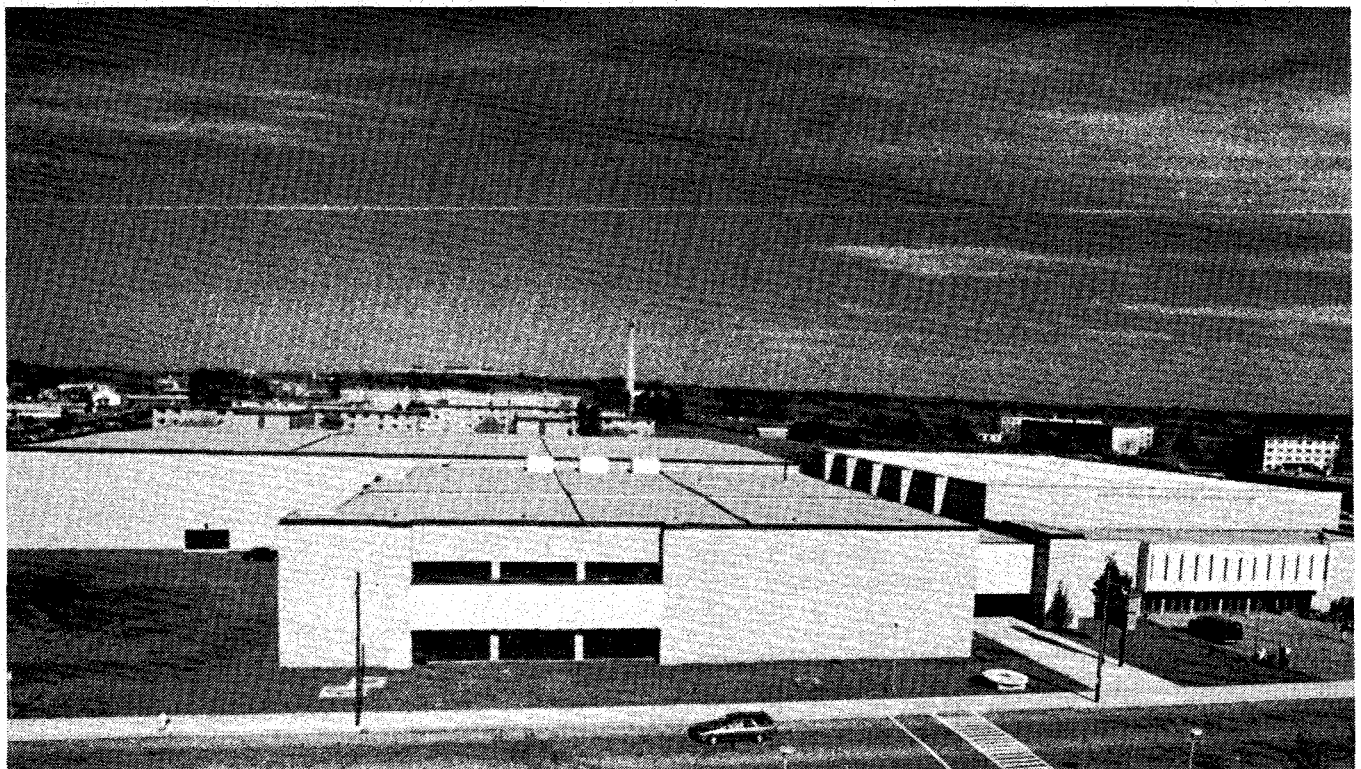
**SHP 210. Introduction to Safety Education and Health Protection.** 3 cr. Introduction to the occupational health and safety field. Topics include general safety and health concepts, terms, historical development, program concepts, legislative overview including worker's compensation laws, problem identification, hazard recognition, evaluation and control concepts, introduction to measurement and evaluation, safety engineering, system safety, fire protection, risk assessment, risk analysis, risk management, accident investigation, ethics and professionalism. Prereq: HP/W 101, Biology 160, Chemistry 101 or 105 or preprofessional requirements.

**SHP 255. 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: 210 and HP/W 245.

**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: 210 and HP/W 245.

## Safety Education

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



# History

## (College of Letters and Science)

Robert J. Knowlton, Chair  
Room 424, College of Professional Studies Building  
Phone: (715) 346-2334

**Faculty:** Brewer, Foret, Kent, R. Knowlton, N. Lewis, LoPatin, Mertz, Nelson, J. Paul, W. Paul, Peguero-Lawlor, Pistono, Roberts, W. Skelton, Walker, Wick, Wrono, Yonke.

The Department of History offers several options in its freshman-level courses:

- History 105, 106, 107, 108: a four-semester sequence which allows you to concentrate on specific periods in European history:
  - History 105-106: two-semester survey of ancient and medieval civilizations.
  - History 106-107: two-semester survey of medieval-early modern civilizations, from late antiquity to the 19th century.
  - History 107-108: two-semester survey of modern European civilization, from the 16th century to the present.
- History 120, 130(MNS): minority and ethnic groups.

### Notes:

- Approval for graduation as a history major or minor requires an overall grade point ratio of 2.00 (2.75 to student teach) in all courses taken within the history major or minor, regardless of declaration of academic bankruptcy.
- No more than 6 credits of History 399 may be accepted toward the major or minor in History.

### History Major

Consists of at least 38 credits:

- Twelve credits from basic courses: 3 to 6 credits selected from each major area (a, b, and c):
  - 105, 106, 107, 108.
  - 215, 216, 219, 220, 253, 254 (all non-Western).
  - 211, 212.
- Twenty-four credits from advanced courses: at least 6 credits from each major area (a, b, c, and d):
  - European:** 3 credits from ancient-medieval eras: 302, 304, 305, 306, 307, 308, 309, 310, 311.  
Three credits from early modern-modern eras: 313, 315, 316, 321, 327, 330, 331, 332, 333, 334, 339, 340.
  - Non-Western:** 3 credits of history from two of the following areas: (a) Middle East 318, 319; (b) Russia 337, 338; (c) Africa 343; (d) Asia 344, 345, 346, 347, 348, 349, 350, 351; (e) Latin America 352.
  - United States:** 3 credits from period courses: 356, 357, 358, 359, 360. Three credits from regional or subject courses: 366, 368, 369, 371, 372, 373, 374, 377, 378, 379(MNS), 382(MNS), 383, 385, 387, 389.
  - Six additional credits from any 300-level history courses and 495.
- Two or 3 credits from senior professional emphasis courses: History 489 or 490.

### History Major with Concentration in Minority and Ethnic Studies

Consists of at least 46 credits:

- Six credits from History 120, 130(MNS), 288(MNS).
- History 211, 212.
- Six credits from 105, 106, 107, 108.
- At least 18 credits distributed as follows:
  - Nine credits from History 379(MNS), 382(MNS), 385, 388(MNS).
  - Six credits from History 313, 316, 327, 338(NW), 340, 343(NW), 346(NW), 348(NW), 352(NW).
  - One credit of History 399, arranged with the adviser.
  - History 489 or 490.
- At least 10 credits from the following but no more than 6 in any one category.
  - Humanities: English 240, 280, 282, 382; Music 102; Spanish 382(MNS).
  - Social Science: Anthropology 339, 371; Geography 373; Political Science 309, 312, 315; Sociology 270, 305, 490 (when an appropriate subtitle is indicated).

### History Minor

Consists of at least 24 credits distributed as follows:

- Twelve credits from basic courses: 3-6 credits selected from each major area (a, b, and c):
    - 105, 106, 107, 108.
    - 215, 216, 219, 220, 253, 254 (all non-Western).
    - 211, 212.
  - Twelve credits from advanced courses: at least 3 credits from each area (a, b, c, and d):
    - European:** 302, 304, 305, 306, 307, 308, 309, 310, 311, 313, 315, 316, 321, 327, 330, 331, 332, 333, 334, 339, 340.
    - Non-Western:** 318, 319, 337, 338, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352.
    - United States:** 356, 357, 358, 359, 360, 366, 368, 369, 371, 372, 373, 374, 377, 378, 379(MNS), 382(MNS), 383, 385, 387, 388(MNS), 389.
    - History 489, 490.
- \* To meet DPI requirements for a history minor with teacher certification in elementary or secondary education, you must take, as part of the 24 required credits, at least 6 credits in European history: 3 credits survey, 3 credits advanced level, and in different periods of history.

### 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:

- Have a 3.5 GPA.
- Complete the requirements for a history major or minor.
- Prepare an honors program with your honors adviser and get it approved by the History Department Curriculum and Planning Committee.
- 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. History 489 or 490, 3 credits, with an additional special project.
- c. OR 3 credits of special work in an approved upper division course. With this option history majors must still take History 489 or 490.

### 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, fourth to 16th centuries. GDR:HI

**HIST 107. Early Modern European History.** 3 cr. Sixteenth to 19th centuries. GDR:HI

**HIST 108. Modern Europe.** 3 cr. Nineteenth 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/BFA

**HIST 130(MNS). Racial and Ethnic Groups in the United States.** 3 cr. Origins, accomplishments, current trends. GDR:HI BS BM/BFA

**HIST 211. United States to 1865.** 3 cr. Prereq: So st. GDR:HI

**HIST 212. United States Since 1865.** 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. To be offered only in the Far East Program. Prereq: So st or consent of the chair of the History Department.

**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 274/374. United States Military History.** 3 cr. Role of the military in American life; colonial period to the present. Credit may be earned in only one: 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 be repeated with different subtitles. May not earn credit in both 288 and 388 except under different subtitles. GDR:HU4 BS

**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 UW-SP overseas programs. GDR:HU4 BS

**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. Fourth to 12th centuries. GDR:HI BA

**HIST 308/508. Medieval Europe.** 3 cr. Twelfth to 16th centuries. GDR:HI BA

**HIST \*309/509. Medieval Studies.** 3 cr. Subtitle will designate topic. GDR:HU4 BS

**HIST 310/510. Medieval Thought and Letters.** 3 cr. Intellectual history of Europe: fourth to 15th centuries. GDR: HU4 BS

**HIST 311/511. Age of the Crusades.** 2 or 3 cr. Eleventh century Europe, the Mediterranean, the Crusades.

**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 UW-SP 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. Fourteenth 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 \*327/527. Recent World Politics.** 3 cr. Selected topics in world history, 1919 to the present. Prereq: 108, 212.

**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:HU4 BS

**HIST 332/532. Modern Britain.** 3 cr. British culture, society, and institutions, from the 18th century to the present. GDR:HI BS BM/BFA

**HIST 333/533. France: Enlightenment; Revolution; Napoleon.** 3 cr. French culture, society, and institutions in the 17th and 18th centuries, and Napoleon. GDR:HU4 BS

**HIST 334/534. Modern France.** 3 cr. French culture, society, and institutions in the 19th and 20th centuries. GDR:HI BS BM/BFA

**HIST 335. History of Germany Since 1871.** 3 cr. To be offered only in overseas programs. Topics will be selected by instructor of the overseas campus.

**HIST 336. Selected Topics in the History of Poland.** 3 cr. To be offered only in the overseas program. Topics will be selected by the instructor of the overseas campus.

**HIST 337/537(NW). Russian History and Civilization.** 3 cr. Tenth 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. Eastern and Central Europe.** 3 cr. To the Congress of Vienna.

**HIST 340/540. Eastern and Central Europe.** 3 cr. Nineteenth and 20th centuries.

**HIST 343/543(NW). Africa South of the Sahara.** 3 cr. Chiefly 19th and 20th centuries. 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 Mexican Civilization.** 3 cr. Continuing quest for independence; impact of Mexico's three major revolutionary upheavals—political independence, liberal reform, and social revolution—on society, religion, the arts, and thought. GDR:HU4 BS

**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

**HIST 368/568. The American West.** 3 cr. Westward expansion; Mississippi valley to the Pacific.

**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 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 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 385/585. The American Woman.** 3 cr. Social-intellectual history of the American woman; colonial period to the present. GDR:HU4 BS

**HIST 387/587. American Reform Movements.** 2 or 3 cr. Ideals and institutions of reform, including concern for human rights, accompanying the social and cultural criticism of the emerging industrial order from the early 19th century.

**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. Genocide: Psycho-Historical Foundations.** 3 cr. Analysis of the scientific/technological foundations of political totalitarianism. GDR:TCI BA BS

**HIST \*394. Technology and Contemporary Issues.** 1-3 cr. For technology and contemporary issues credit only. Subtitle will designate focus. GDR:TCI BA BS

**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.

**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 area.

**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 in 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 *Human Development and Nutritional Sciences* and/or *Family and Consumer Education*.

# Honors Program

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The University Honors Program is open to all interested and qualified students. It allows the superior student an opportunity for intellectual and academic achievement which normally is not available in traditional classes.

In order to graduate as a university honors graduate, you are required to complete a minimum of 15 credits of academic work in specially designed courses. There are three kinds of honors courses:

1. Courses bearing the designation "honors" and limited to students participating in the University Honors Program. These are often at the introductory level and are intended to fulfill part of the general degree requirements.
2. Other courses (usually upper division courses) in which you contract with your professor for individualized assignments that will entitle you to receive honors credit.
3. A "senior experience" that is specific to individual departments and represents an opportunity for you as an honors student to display individualized learning skills.

If you meet any of the following criteria, you will be eligible for the honors program:

**Entering Freshmen:** (1) high school class rank in 90th percentile or above; (2) ACT or other standardized test scores with a composite score in the 90th percentile or above; (3) or special invitation from the university honors coordinator or the University Honors Committee.

**Continuing Students:** To enter and participate in the program as a continuing student you need (1) 3.2 GPA as a freshman, 3.3 GPA as a sophomore, 3.4 GPA as a junior, and 3.5 GPA as a senior; or (2) an invitation from the university honors coordinator or the University Honors Committee for admission to the program.

To graduate as a university honors graduate, you must have compiled an overall GPA of 3.50 by the time of graduation. You may withdraw from the program at any time without losing credit for the honors work successfully completed.

**Why Participate in Honors?** Benefits that you may expect from participation in the honors program include: (1) the stimulation of close intellectual association with other talented students and faculty in a variety of academic settings in addition to the traditional classroom; (2) the personal satisfaction of meeting the challenge of honors work and of outstanding achievement; (3) the notation on your university record, diploma and transcript as a University Honors graduate, adding to your credentials and appealing to prospective employers or graduate schools; (4) membership in a rewarding student organization, the University Honors Society.

## Courses in Honors

See the timetable for listings of honors sections of regular courses.

**HNRS 100. The Ancient Greek Experience.** 3 cr. Philosophy, literature, history, and art of Hellenic Greece, the "Golden Age of the Western World." GDR:HU1-4

**HNRS 101. Honors Seminar in Humanities.** 3 cr. Interdisciplinary course in the humanities. Subtitle will designate topic. May be taken twice under different subtitles. Prereq: Qualified for honors program; preference to freshmen.

**HNRS 102. Honors Seminar in Social Science.** 3 cr. Interdisciplinary course in the social sciences. Subtitle will designate topic. May be taken twice under different subtitles. Prereq: Qualified for honors program; preference to freshmen.

**HNRS 103. Honors Seminar in Natural Science.** 3 cr. Interdisciplinary course in the natural sciences. Subtitle will designate topic. May be taken twice under different subtitles. Prereq: Qualified for honors program; preference to freshmen.

**HNRS 104. Honors Seminar in Humanities (Minorities).** 3 cr. Interdisciplinary course in the humanities focusing on minority groups. Subtitle will designate topic. May be taken twice under different subtitles. Prereq: Qualified for honors program; preference to freshmen.

**HNRS 105. Honors Seminar in Social Science (Minorities).** 3 cr. Interdisciplinary course in the social sciences focusing on minority groups. Subtitle will designate topic. May be taken twice under different subtitles. Prereq: Qualified for honors program; preference to freshmen.

**HNRS 106. Honors Seminar in Humanities (Non-Western).** 3 cr. Interdisciplinary course in the humanities focusing on non-Western culture. Subtitle will designate topic. May be taken twice under different subtitles. Prereq: Qualified for honors program; preference to freshmen.

**HNRS 107. Honors Seminar in Social Science (Non-Western).** 3 cr. Interdisciplinary course in the social sciences focusing on non-Western culture. Subtitle will designate topic. May be taken twice under different subtitles. Prereq: Qualified for honors program; preference to freshmen.

**HNRS 150. The Ancient Asian Experience.** 3 cr. Philosophy, religion, literature, and art of ancient India, China, and Japan. GDR:HU1-4

**HNRS 199. Interdisciplinary Independent Study.** 1-3 cr. Independent study of a problem, theme, individual or period of special interest may be arranged with two or more instructors from two or more academic departments from one or more colleges in the university with the permission of the chairs involved. May be repeated for a total of no more than 3 credits.

**HNRS 299. Interdisciplinary Independent Study.** 1-3 cr. (See 199 above.)

**HNRS 350. Great Books.** 3 cr. A critical examination of works of literature selected from among the world's great books. (For example, Plato, "Republic;" Augustine, "City of God;" Dante, "Divine Comedy;" Shakespeare, "Hamlet," "King Lear;" Darwin, "Origin of Species;" Freud, "Civilization and Its Discontents;" etc.)

**HNRS 360. Great Men and Women.** 3 cr. A critical examination of the life and work of a single author from the world of science, literature, or the arts. (For example, Plato, Galileo, Newton, Shakespeare, Bohr, Planck, Vincent Van Gogh, Harriet Taylor, Beatrice Webb, etc.)

**HNRS 370. Great Problems.** 3 cr. A critical examination of a significant intellectual problem and the literature that bears upon it. (For example, the problem of evil; the existence of God; utopias; the nature of the real, the true, the good and the beautiful; the search for the atom; the origin of life, man, or the universe, etc.)

**HNRS 375. Community Environmental Issues Investigations.** 3 cr. Review current regional, national, and global environmental issues and examine the means for individually investigating and resolving those issues. May not earn credit in both 375 and Natural Resources 478. GDR:TCI BA BS

**HNRS 399. Interdisciplinary Independent Study.** 1-3 cr. (See 199 above.)

**HNRS 400. Colloquium.** 3 cr. Topics to be arranged. Required of all seniors in the honors program. Prereq: Sr st.

## Human Development and Nutritional Sciences

### (College of Professional Studies)

Diane Witte, Associate Dean of the School of Human Development and Nutritional Sciences  
Room 101, College of Professional Studies Building  
Phone: (715) 346-2830, -2831

**Faculty:** Fedje, Gingles, Hendel, Malone, Piffner, Ross, Titus, Witte.

### Child and Family Studies Minor

Consists of 22 interdisciplinary credits.

1. Human Development 261, 362, 367, 466.
2. Select 11 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. Early Childhood Education 262, 460; Food and Nutrition 351; Human Development 166, 360, 468, 486, 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. General dietetics option:

- a. Required courses, 39 credits: Human Development 166 or 367, 265; Food and Nutrition 246, 253, 357, 393, 455, 456, 457; Food Service Management 342, 347, 448.
- b. Required collateral courses, 53-57 credits: Biology 101 or 160, 285, 286 or Health Promotion/Wellness 285, 333; Business 280, 384 or Psychology 345; Chemistry 105 and 106 (or 115 and 116), 220, 260; Economics 210; Mathematics 100 (unless exempt) and 355, Computer Science 101/102; Psychology 110; Sociology 101 or Anthropology 101.

#### 2. Community nutrition option:

- a. Required courses, 36 credits: Human Development 100, 261, 166 or 367; Food and Nutrition 246, 253, 393, 455, 456, 457, 459; Food Service Management 342, 347.
- b. Required collateral courses, 55-58 credits: Biology 101 or 160, 285, 333; Business 280; Chemistry 105 and 106 (or 115 and 116), 220, 260; Communication 330; Computer Science 101/102; Economics 210; Mathematics 100 (unless exempt), 355; Physical Education 312; Psychology 110; Sociology 101.

Fulfilling the degree requirements in the general 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.

### Early Childhood Education Major, Teaching Option (administered jointly by Human Development/Nutritional Sciences and Education)

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 and 102, or 150; Communication 101; Mathematics 100 and 328 along with Mathematics Education 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 21 credits to fulfill the critical thinking/cultural awareness requirement, including one course in non-Western culture (NW) and one course in minority studies (MNS).
    - 1) History: Take History 212 and three more credits from History 120, 130, 211, 379(MNS), 382(MNS), 385.
    - 2) Social Science: Take Human Development 261 and 367; Psychology 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 technology and contemporary issues (TCI) requirement and DPI's environmental education requirement.
  - e. Take Physical Education 231 to fulfill part of the physical education requirement. You must also show proof of completion of First Aid and CPR.
2. After you have completed 45 credits, apply for admission to the Professional Education Program. For a list of the admission criteria, see the *Education* section of this catalog. **NOTE: As of fall 1991, enrollment caps may be applied for the Professional Education Program. These caps may prevent you from being admitted if you meet only the minimum admission qualifications.**
3. Take 41 credits of professional education: Education 101, 280, 351, 381; Instructional Resources 331; Early Childhood Education 262, 460, 464; Human Development 100 and 466; and 18 credits of a combination of Education 398 and Early Childhood Education 398.



4. Take 30 credits of education methods: Education 301, 304, 308, 324, 325, 326.; Human Development 360; Early Childhood Education 364, 366, 368; Mathematics Education 328.
5. Take 7 credits of related professional subject matter: English 274; Sociology 305; Communicative Disorders 266.

### Early Childhood Education Major, Non-Teaching Option

1. Required courses, 33-38 credits: Human Development 100, 166, 265 or 261, 360, 362, 367, 397, 466, 486; Early Childhood Education 262, 460, 464; Food and Nutrition 351; Home Economics Education 390.
2. Required collateral courses, 11 credits: Communicative Disorders 266, Psychology 110, Physical Education 252 or evidence of completion of standard first aid course, Sociology 101.
3. Controlled electives, 12 credits: Select at least one course from each group.
  - a. Early Childhood Education 364, 366, 368, 462.
  - b. Sociology 224, 225, 240, 265, 366, 367.
  - c. Psychology 250, 315, 401, 465.
  - d. Physical Education 231, 305, 315.
4. Area of emphasis, 12-15 credits from an area approved by your adviser and the head of Human Development and Nutritional Sciences such as psychology, early childhood education, health promotion/wellness, sociology, anthropology, business.

### Early Childhood Education Minor

Provides professional preparation if you are majoring in elementary education and includes student teaching at the early childhood level. If you are not majoring in elementary education, you may enroll, but you will not receive certification.

Required courses: 25 credits. Early Childhood Education 262, 364, 366, 368, 460, 464; Human Development 261, 360, 466.

### Family and Consumer Education Major

1. **Teacher certification option:**
  - a. Required courses, 37 credits: Human Development 100, 166, 261, 362, 367, 372, 381, 486; Fashion and Interior Design 101, 233, 313; Food and Nutrition 106, 253.
  - b. Courses required for teacher certification, 55-56 credits: Home Economics Education 290, 390, 391, 392, 394, 398; Education 101, 280, 351, 381, 386; Sociology 305; Political Science 201; History 211 (or 120, 130, 379MNS, 382MNS, or 385 if B.S.), 212; Humanities from Area 1 and Area 2; admission to the Professional Education Program.
  - c. Required collateral courses, 9 credits: Economics 100 or 210; Psychology 110; Sociology 101.
2. **Noncertification option:**
  - a. Same as 1.a. above, with addition of 8 credits of Human Development 397 (field work); total 45 credits.
  - b. Home Economics Education, 10 credits: 290, 390, 391, 392, 394.
  - c. Required collateral courses, 9 credits: Economics 100 or 210; Psychology 110; Sociology 101.
  - d. Controlled electives, 6 credits from the following: Education 351, 361, 381, 383; Instructional Resources 331.
  - e. Area of emphasis, 12-15 credits, from an approved area such as political science, computer science, communication, sociology or anthropology, economics, psychology, HPERA, business.

### Food Systems Management Major

1. Required courses, 36 credits: Human Development 367; Fashion and Interior Design 101; Food and Nutrition 106 or 246, 253; Food Service Management 342, 347, 395, 397, 447, 448, 449, 452.
2. Required collateral courses, 40-45 credits: Accounting 210, 211; Economics 210, 211; Business 280, 330, 340, 384; Chemistry 101, or 105 and 106; Biology 101; Physics 100 or Geography 100; Computer Science 101/102.

### Food Systems Management Minor

Consists of 27 credits.

1. Required courses: Food and Nutrition 106 or 246, 253; Food Service Management 342, 347, 448, 452; 2 credits from Food Service Management 343, 395 or 397, 447, 449, or Food and Nutrition 450.
2. Accounting 210; Business 384 or Psychology 345.

### Home Economics Minor

Consists of 27-28 credits.

1. Human Development 100, 261, 166 or 367, 372; Fashion and Interior Design 101, 211, 302; Food and Nutrition 106.
2. Five or 6 credits in electives from fashion and interior design, human development, food and nutrition, food systems management, early



childhood education, or home economics education.

### Nutrition Minor

Consists of 24 credits.

1. Biology 101 or 160; Food and Nutrition 106, 253 or 351 or 353, 357, 393, 456.
2. Five credits of electives from: Human Development 261, 367; Food and Nutrition 458, 459; Home Economics Education 390, 392; Psychology 480; Sociology 315.

### Master of Science Degrees

The two Master of Science Degrees, Human and Community Resources and Nutritional Sciences are described in the graduate catalog.

### Courses in Early Childhood Education

**ECE 160. Special Topics in Child Development Associate Competencies.** 1 cr. Twelve 1-credit modules designed to meet the training requirements for the Child Development Associate Credential. Subtitle will designate area. May be repeated for credit with different subtitles. Does not count toward requirements for major in early childhood education. Pass-fail.

**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: Human Development 261 or Psychology 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. Two hrs lec, 2 hrs practicum per wk. Prereq: Human Development 261, or cons instr.

**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. Two hrs lec, 2 hrs practicum per wk. Prereq: Human Development 261, Communicative Disorders 266, or cons instr.

**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. Two hrs lec, 2 hrs practicum per wk. Prereq: Human Development 261 or cons instr.

**ECE 398. Student Teaching.** 8 cr. 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. Prereq: 364 or cons instr.

**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: 368 or cons instr.

**ECE 464. Evaluation in Early Childhood Education.** 2 cr. Use diagnostic and screening tools to set appropriate goals and design experiences for young children. Prereq: 368 or cons instr.

### Courses in Food and Nutrition

**FN 106. Principles of Food Preparation.** 3 cr. Introduction to basic physical and chemical properties of foods; interaction and reaction of foods in food preparation procedures; evaluation of prepared products. Two hrs lec, three hrs lab per wk.

**FN 151. Contemporary Nutrition.** 1 cr. Apply nutrition principles to contemporary problems in food choices and health. One two-hr lec-disc per wk. GDR:PE/HE

**FN 246. Food Science.** 3 cr. Food composition, chemical and physical interactions and treatment in preparation. Two hrs lec, three hrs lab per wk. Prereq: Chemistry 220.

**FN 253. Nutrition.** 3 cr. Dietary standards at different stages in the life cycle; nutrient requirements and interrelationships; digestion and metabolism of foods. Prereq: So st.

**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. Food and People.** 3 cr. Role of food and nutrition affecting human habits and beliefs; cultural, sociopsychological, and economic aspects. Prereq: Sociology 101, or Anthropology 101, or Psychology 110, or cons instr.

**FN 391/591. Study Tour.** 1-6 cr. Study tours to industries or facilities appropriate to various curricular areas in food and nutrition. Subtitle will designate area.

**FN 393. Educational Techniques in Dietetics.** 2 cr. Educational planning concepts; resources, methods, and techniques for teaching dietetics; helping skills including interviewing techniques. Prereq: 253 or cons instr.

**FN 395. Field Experience.** 3 or 4 cr. A supervised program at a cooperating business site. One hr seminar per wk for one cr, plus a minimum of 40 hrs arranged at the business site for each additional cr. May be repeated for a total of 9 cr. 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 consent of the associate dean of human development and nutritional sciences. Credit will be based on the scope of the project.

**FN 444/644. Principles of Microwave Cookery.** 1 cr. Basic principles and current research in microwave heating for preparing and serving food.

**FN 445/645. Food Preservation.** 1 cr. Basic principles and current research for home food preservation.

**FN 446/646. Experimental Foods.** 3 cr. Application of scientific principles and experimental procedures in food preparation. One hr lec, four hrs lab per wk. Prereq: 106 or 246; Chemistry 101 or 105 or 115; Biology 333; or cons instr.

**FN 450/650. Social and Cultural Aspects of Food.** 3 cr. Foods and food customs of various regional, national, and ethnic groups. Two hrs lec, three hrs lab per wk.

**FN 455/655. Diet Therapy.** 3 cr. Apply nutrition principles to the dietary treatment of certain conditions and diseases. Two hrs lec, two hrs lab per wk. Prereq: 106 or 246, 253; Chemistry 260.

**FN 456/656. Community Nutrition.** 3 cr. Apply nutrition concepts to public health: disease prevention and health promotion; analysis of related programs and legislation with nutrition components; program planning strategies. Two hrs lec, two hrs lab per wk. Prereq: 253.

**FN 457/657. Advanced Nutrition.** 4 cr. Human nutrition assessment and requirements throughout the life cycle; nutrient interrelationships affecting absorption and metabolism; composition of foods pertaining to human needs. Three hrs lec, two hrs lab per wk. Prereq: 253; 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 or 351 or cons instr.

**FN 459. Practicum in Community Dietetics.** 3 cr. Supervised experience in cooperating health-related programs; health hazard appraisal, physical fitness testing, marketing and communication of

nutrition information. Prereq: 393 or Education 381; 457; Physical Education 312; Communication 330.

**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 the preschool years; development of feeding behavior; nutritional assessment; prospective nutrition; problems requiring special nutritional counseling. Prereq: 253 or cons instr.

**FN 781. Graduate Practicum, Clinical Nutrition.** 4-6 cr. Experience and evaluation in cooperating health care facilities. Minimum of 60 hrs on-site experience for each cr taken. Prereq: Cons instr.

**FN 782. Graduate Practicum, Community Nutrition.** 4-6 cr. Experience and evaluation in selected community health-related programs. Minimum of 60 hrs on-site experience for each cr taken. Prereq: Cons instr.

**FN 783. Graduate Practicum, Food Service Administration.** 4-6 cr. Experience and evaluation in assigned food service facilities. Minimum of 60 hrs on-site experience for each cr taken. Prereq: Cons instr.

**FN 794. Readings.** 1-3 cr. Independent reading and review of current literature; written reports. Prereq: Cons instr.

**FN 796. Independent Study.** 1-3 cr. Planned study to supplement preparation in area of specialization.

**FN 798. Research.** 3 cr. Define problems and issues; examine research; plan experimental investigation.

**FN 799. Thesis.** 2-6 cr. Research project dealing with a specific problem in an academic area and culminating in a thesis.

## Courses in Food Systems Management

**FSM 342. Menu Management.** 4 cr. Application of food service system management emphasizing integration of purchasing and inventory; menu planning, recipe standardization, costing and merchandising. Two hrs lec, four hrs lab per wk. Prereq: Food and Nutrition 106 or 246; 253.

**FSM 343/543. School Food Service.** 2 cr. History and philosophy of school food service; legislation, trends, and educational roles; principles of organization and management of school food programs. Prereq: 106, 246, or cons instr.

**FSM 347/547. Food Management Systems.** 4 cr. Principles, concepts, and technical operations of food service systems within organizational structures; facility design. Prereq: 106 or 246 or cons instr.

**FSM 391/591. Study Tour.** 1-6 cr. Study tours to industries or facilities appropriate to food service management. Subtitle will designate area.

**FSM 395. Field Experience.** 3 or 4 cr. A supervised program at a cooperating business site. One hr seminar per wk for 1 cr, plus a minimum of 40 hrs arranged at the business site for each additional cr. May be repeated for a total of 9 cr. Prereq: Cons instr.

**FSM 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.

**FSM 399. Special Work.** Upperclass food service management majors may arrange for independent study with consent of the associate dean of human development and nutritional sciences. Credit will be based on the scope of the project.

**FSM 447. Beverage Management.** 2 cr. Beverage operational problems, equipment needs, and management control. Prereq: 342, 347.

**FSM 448/648. Food Systems Operational Management.** 4 cr. Functional management experience in planning, organizing, directing, and controlling the laboratory cafeteria. Applied concepts in quantity food production, sanitation, recipe cost/profit analysis, inventory, and cash controls with emphasis on computer use and management skills. Two hrs lec, six hrs lab per wk. Prereq: 342, 347 or con reg.

**FSM 449/649. Cost Control and Marketing Applications.** 3 cr. Applied cost control procedures and marketing concepts for profit management and customer satisfaction in food service operations. Prereq: Accounting 210 and Business 330 or con reg.

**FSM 451/651. Recent Advances in Food Systems Management.** 3 cr. Recent developments, research, and legislation reflecting educational, health, and business aspects of food systems. Prereq: 106 or 246, 253, or cons instr.

**FSM 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.

**FSM 490/690. Workshop.** 1-4 cr. Subtitle will designate area.

## Courses in Human Development

**HD 100. Home Economics in Contemporary Society.** 1 cr. Introduction to history and development of the home economics profession; investigation of related careers and the meaning of professional development. Pass-fail only.

**HD 166. Family Relations and Individual Development.** 3 cr. How the family influences individual development and interpersonal relationships; personal decision-making processes that apply to family living issues. Prereq: Sociology 101 or con reg.

**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.

**HD 360/560. Infant and Toddler Development.** 3 cr. Human development through 2 1/2 years; implications for parents and early childhood education programs; observations.

**HD 362/562. Recent Advances in Child Development.** 3 cr. Research, theories, programs, and techniques in child development applied to programs for young children and their families.

**HD 367. Family Structure and Interaction.** 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 and 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. Prereq: Economics 100 or 210. May not earn credit in both Human Development 372 and Economics 272. GDR:SS2

**HD 381/581. Technology and Energy Management.** 2 or 3 cr. Interrelationship between family and technological environment; household management and use of technology and energy. For 3 credits, complete a family energy conservation project. GDR:TCI BA BS

**HD 391/591. Study Tour.** 1-6 cr. Study tours to industries or facilities appropriate to human development. Subtitle will designate area.

**HD 395. Field Experience.** 3 or 4 cr. A supervised program at a cooperating business site. One hr seminar per wk for 1 cr, plus a minimum of 40 hrs arranged at the business site for each additional cr. May be repeated for a total of 9 cr. 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 home economics education majors may arrange for independent study with consent of the associate dean of Human Development and Nutritional Sciences. Credit will be based on the scope of the project.

**HD 466/666. Parent Child Relations.** 2 cr. How parents and children affect each other as individuals and as a family system; research and theories. Prereq: 166 or 367 or cons instr.

**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.

**HD 486. Family Resource Management.** 2 or 3 cr. Apply concepts and processes of family resource management from a system's perspective. For 3 credits, analyze family resource managerial problems. Prereq: 372.

**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 be repeated for credit with different subtitles.

**HD 702. Special Topics.** 1-3 cr. Subtitle will designate human development topic. May be repeated 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 credit 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 credit 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 765. Issues in Family Living.** 2 or 3 cr. Investigate current literature to determine issues affecting the nature and variability of the family.

**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 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, home economics 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 Home Economics Education

**HEED 290. Directed Study: Observation and Participation.** 1 cr. Gain better understanding of role of home economics classroom teacher; learner characteristics, instructional materials, integration with disadvantaged and handicapped learners. One hr class or two hrs observation/participation every other wk.

**HEED 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.

**HEED 382/582. Techniques for Teaching Vocational Education.** 2 cr. Techniques and materials for instructional planning and teaching post-secondary vocational education courses.

**HEED 383/583. Evaluation in Vocational Education.** 2 cr. Techniques for analyzing post-secondary education programs; interpret evaluation data. Prereq: Cons instr.

**HEED 385/585. Introduction to Vocational Guidance.** 2 cr. Occupational opportunities and statutory requirements in vocational and technical education programs.

**HEED 390/590. Adult Education.** 2 or 3 cr. Philosophy, history, techniques, and experiences in teaching adults.

**HEED 391. Curriculum for Home Economics.** 3 cr. Philosophy, curriculum, and evaluative materials for the home economics program K-12.

**HEED 392. Techniques for Teaching Home Economics.** 2 cr. Techniques, materials, and administration for home economics programs K-12.

**HEED 394/594. Principles of Vocational and Technical Education.** 2 cr. Philosophy, organization, and administration of vocational and technical education; emphasis on Wisconsin programs.

**HEED 396/596. Cooperative Occupational Education Programs.** 2 cr. Philosophy, organization, and teaching techniques for cooperative vocational programs. Prereq: Admission to the professional education program.

**HEED 398. Student Teaching in K-12 Family and Consumer Education Programs.** 16 cr. Observation and teaching in a K-12 family and consumer education environment under the guidance of cooperating teachers and university faculty.

**HEED 789. Adult Learner.** 3 cr. Analysis of research and theory that applies to the formal and informal instruction of adults.

**HEED 790. Workshop in Home Economics Education.** 1-4 cr. Subtitle will designate area. May be repeated for credit with different subtitles.

**HEED 791. Curriculum in Home Economics.** 3 cr. Trends, evaluation of programs, principles of curriculum structuring, development of teaching guides.

**HEED 792. Perspectives in Home Economics.** 2 or 3 cr. Critical analysis of recent developments in home economics education; trends in curriculum development, techniques, and materials.

**HEED 793. Evaluation of Home Economics Programs.** 3 cr. Techniques in the analysis of occupational and homemaking programs.

## Individually Planned Major (IPM)

Ron Lokken, Coordinator  
Room B207, Science Building  
Phone: 346-2791

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 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 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 required physical education. 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.

The major consists of a minimum of 36 approved credits taken from no fewer than two curricular areas, with a minimum of 9 credits in each. At least 20 credits in the major must be in courses numbered 300 or above.

You may obtain full details from the IPM coordinator.

## Instructional Resources

(College of Professional Studies)

Larry L. Riggs, Coordinator  
Room 338B, College of Professional Studies Building  
Phone: (715) 346-4436

Faculty: Gillesby, Riggs, Strupp.

### Courses in Instructional Resources

**IRES 222. Introduction to Reference.** 2 or 3 cr. Materials basic to a reference collection and service; practice using them as information source and teaching and study aids. Prereq: So st.

**IRES 223. Building Learning Resources Collections.** 2 or 3 cr. Problems and values in building library collections with full concern for all materials that have relevance to the needs of elementary and secondary schools. Prereq: So st.

**IRES 231. Basic Photography.** 3 cr. Fundamentals of black and white photography including camera, types of film, filters, use of light meter and darkroom; practical experience in contact printing, developing, and enlarging. Prereq: So st.

**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: 222 and 223, or 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: 211 or 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: 231 or 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 the operation of learning resources functions under the supervision of cooperating instructional media personnel. Practicum credits may be earned as part of the requirements for Education 398 (Student Teaching) or by other arrangements approved by the 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 consent of the coordinator. Credit will be based on the scope of the project. Two credits may apply to the 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: Psychology 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; for the 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 DESIGN

See *Fashion and Interior Design*.

## INTERNATIONAL PROGRAMS

See *More Academic Information*.

## INTERNATIONAL RESOURCE MANAGEMENT

See *Natural Resources*.

# International Studies

## (College of Letters and Science)

Neil Lewis, Coordinator  
Room 408, College of Professional Studies Building  
Phone: (715) 346-3617

**Faculty:** Kent, R. Knowlton, N. Lewis, Price, Roberts, W. Skelton, G. Skelton, Sparapani, Walker.

### International Studies Major

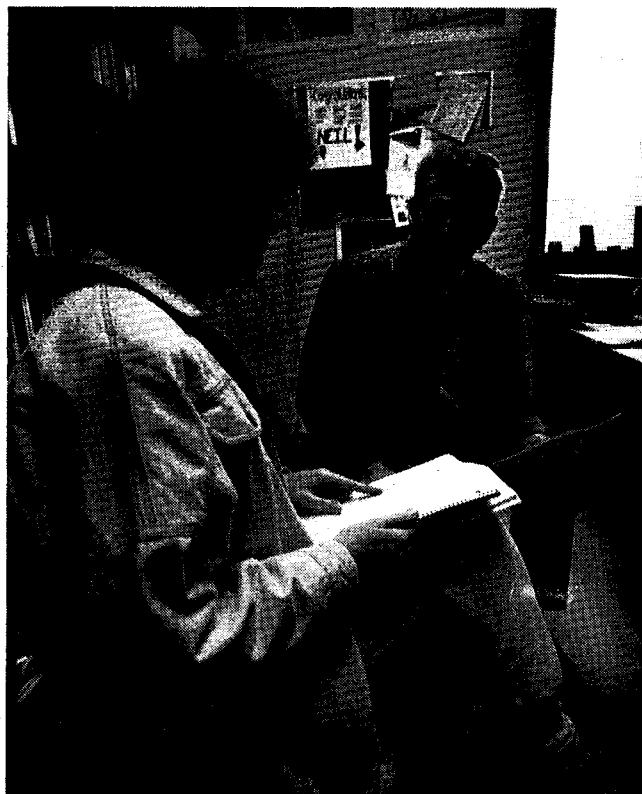
Consists of 33 credits plus the foreign language requirement.

1. Core courses, 12 credits: International Studies 101(NW), 480; 6 credits from Anthropology 310, Geography 113, Political Science 206.
2. Language requirement, 0-19 credits:
  - a. For all concentrations except North American, complete one foreign language course beyond fourth semester college level of a language appropriate to your area of concentration, or test out.
  - b. For the North American concentration complete two semesters of college-level foreign language, or test out, or complete one foreign language course beyond freshman level.
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:** Anthropology 337; Chinese 101, 102, 200, 201, 300, 301; Comparative Literature 250; Geography 327; History 215, 216, 344, 345, 346, 347, 348, 349, 350, 351; International Studies 102, 399; Music 428; Philosophy 105, 335, 336, 337, 338; Political Science 206, 370, 396; Religious Studies 100.
  - b. **Europe concentration:** Art 383, 389; Economics 367; English 211, 212, 319, 323, 324, 325, 327, 361, 362; French 340, 355, 360, 370, 381, 493; Geography 120, 328, 340; German 340, 360, 370, 381, 493; History 107, 108, 120, 307, 308, 309, 310, 311, 312 when dealing with Europe, 313, 321, 327 when dealing with Europe, 330, 332, 333, 334, 335, 339, 340; International Studies 399; Music 220, 221; Natural Resources 475; Philosophy 308; Political Science 280, 361, 364; Spanish 340, 341, 342, 381, 460, 470, 493.
  - c. **North America concentration:** Anthropology 339, 371; Art 348, 384, 385, 386; Communication 121, 362, 363; Dance 300; Drama 361, 412; Economics 311, 315, 328, 345; English (American literature) 213, 214, 280, 282, 313, 329, 360, 364, 382; Geography 211, 226, 373; History 211, 212, 274/374, 356, 358, 359, 360, 366, 367, 368, 369, 371, 372, 373, 377, 378, 379, 382, 383, 385, 387, 389; International Studies 103\*\*, 104\*\*, 201, 202\*, 300\*, 301, 399; Music 102, 304, 305, 329; Philosophy 340; Political Science 101, 102, 211, 242, 250, 301, 308, 309, 310, 312, 313, 314, 315, 316, 317, 320, 322, 341, 354, 356, 358, 380, 391, 392, 411, 412; Religious Studies 311, 316, 321 (when appropriate); Sociology 102, 300, 356, 363, 368.

*\*Required for the major.*

*\*\*Required for the major and minor.*

- d. **Latin America concentration:** Anthropology 335; Art 382; Geography 301, 391; History 253, 254, 352; International Studies 100, 399, 423; Natural Resources 475; Spanish 353, 354, 381, 471, 493.
  - e. **Middle East and Africa concentration:** Art 388; Geography 300; History 219, 220, 318, 319, 343; International Studies 399.
  - f. **Russia and Soviet Union concentration:** Geography 330, History 337, 338, 339, 340; International Studies 297, 397, 399; Philosophy 331, 332; Political Science 364, 384; Russian 360, 370, 381.
4. Additional requirements/options.
    - a. There may be additional course requirements for a given concentration area. See the international studies coordinator for specifics.
    - b. 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 International Studies 399 for up to 3 credits that you can apply to this major or minor.
    - c. Because of the interdisciplinary nature of this major, we encourage you to pursue a second major in another field.
    - d. 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.





- e. 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; Geography 120, 340, 368; History 373; Natural Resources 475; Political Science 280, 380; Sociology 260, 370.

**International Studies Minor**

Consists of 24 credits plus the foreign language requirement.

1. Core courses, 12 credits: International Studies 101(NW), 480; 6 credits from Anthropology 310, Geography 113, Political Science 206.
2. Language requirement, 0-12 credits. Complete two semesters of college-level foreign language, or test out, or complete one foreign language course beyond freshman level.
3. Areas of concentration, 12 credits from one of the areas of concentration listed with the major above. Six of these credits must be in courses numbered 300 and above.
4. Additional requirements/options. See 4a., b., d., e. above.

**Courses in International Studies**

**INTL 100. Introduction to Latin America.** (formerly Latin American Studies 101) 3 cr. Multidisciplinary introduction to the history and culture of Latin America using lectures, discussions, videotape lecture presentations, films, and slides. GDR:HU4

**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.

**INTL 102. Introduction to Asian Studies.** (formerly Asian Studies 101) 3 cr. Traditional and contemporary Asia, emphasizing its unity and diversity, from an interdisciplinary approach; geographical, historical, philosophical, religious, governmental, social, anthropological, linguistic, literary, artistic, and cultural aspects of Asian life.

**INTL 103. American Civilization to 1870.** (formerly American Studies 103) 3 cr. An introductory, interdisciplinary survey of the development of the society and culture of "premodern" America. Focus on changes in religion, political, social, and economic thought, literature, art and architecture, and music.

**INTL 104. American Civilization Since 1870.** (formerly American Studies 104) 3 cr. An introductory, interdisciplinary survey of the development of the society and culture of modern America. Focus on changes in religious, political, social, and economic thought, literature, art and architecture, and music.

**INTL 201. American Lives: Biography and Autobiography.** (formerly American Studies 201) 3 cr. The lives, values, and cultural environments revealed in various examples of biography and autobiography of Americans in such fields as business, labor, politics, religion, science, law, and the arts. Prereq: So st. GDR:HU4

**INTL 202. American Cultural Internationalism.** (formerly American Studies 202) 3 cr. Interrelationships between American and other cultures including American reactions to foreign countries and peoples; foreign observers' opinions of Americans; the interaction of immigrant cultures with American life; materials from history, economics, the visual arts, literature, and music. Prereq: So st. GDR:HU4

**INTL 297. Soviet Seminar.** (formerly RECES 297) 3 cr. The Soviet Union and East Central Europe. Open to students who are going to participate in the trip to Eastern Europe within the framework of the Soviet seminar. Prereq: So st.

**INTL 300. American Life.** (formerly American Studies 300/500) 3 cr. Integrating course for juniors and seniors. Interdisciplinary study of American life concentrating on specific theme or period. Subtitle will designate area. May be repeated for credit with different subtitle. GDR:HU4

**INTL 301. Major Directions in American Arts in the 20th Century.** (formerly American Studies 301) 3 cr. Integrated survey of major movements in various American art forms during the present century. Study of theories, techniques, and content in American dance, drama, film, literature, music, and the visual arts. GDR: HU1

**INTL 302. American Material Culture.** (formerly American Studies 302) 3 cr. Technological, aesthetic, and cultural significance of artifacts (man-made objects) in American social and economic history, such as house interiors, furniture, ceramics, paintings, musical instruments, folk architecture, automobiles, trains, ships, industrial machinery, and restored historical buildings and farms. GDR:HU4

**INTL 397. Soviet Seminar.** (formerly RECES 397) 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 appropriate area of concentration with consent of the independent studies coordinator and appropriate instructor. Credit will be based on the scope of the project.

**INTL 423. Latin American Development.** (formerly Latin American Studies 423) 3 cr. Interdepartmental course in the development, modernization, and institutions of Latin America; analysis of factors of development. Subtitle will designate topic(s). Prereq: 6 credits Latin American studies content courses or cons coordinator.

**INTL 480. Senior Seminar.** 3 cr. A capstone experience to enhance understanding of the interrelation of cultures throughout the world. Prereq: International studies majors or cons IS coordinator.

**JAZZ STUDIES**

See *Music*.

**JOURNALISM**

See *Communication*.

**LAND USE PLANNING**

See *Natural Resources*.

**LATENT COURSE LIST**

See section of this catalog immediately following *Courses of Instruction*.

**LATIN AMERICAN STUDIES**

See *International Studies*.

**LEARNING DISABILITIES**

See *Education*.

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**Lecture-Forum Course**

(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. 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. Two hrs per wk. May be taken for a total of 2 credits. Pass-fail only; attendance required to pass.

## LIBRARY RESOURCES

**LRES 101. Effective Use of the University Library.** 1 cr. (Pass-Fail only.) 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*.

## LIMNOLOGY

See *Natural Resources--Water Resources*.

## MANAGERIAL ACCOUNTING

See *Business and Economics*.

# Mathematics and Computing

(College of Letters and Science)

William Wresch, Chair  
Room B-246, Science Building  
Phone: (715) 346-2120

**Faculty:** R. Ackley, M. Anderson, K. Brown, Cable, A. Carlson, S. Carlson, J. Carter, Jyotsna Chander, Conlon, Gau, Goodwin, Goulet, Herder, Hille, Hutchinson, C. Johnson, G. Kung, S. Kung, Liu, Madison, Mages, Messing, G. Miller, Mitchell, Morris, D. Olson, Rangel, C. Riley, Rohm, Schoenecker, B. Smith, Staal, M. Stern, Thoyre, Mark Treuden, Michael Treuden, Weiler, Mary Whalen, Wresch.

The computer information systems major, minor, and courses are listed under that title earlier in this catalog.

## Mathematics Major

Consists of at least 37 credits:

1. Mathematics 120, 121, 222, 213. It is strongly recommended that you complete 213 before enrolling in 300-level courses.
2. At least one course from each of (a) and (b):
  - a. Analysis: Mathematics 323, 324, 327;
  - b. Algebra: Mathematics 330, 331.
3. At least one course from each of two areas:
  - a. Geometry and Topology: Mathematics 340, 342, 372;
  - b. Probability and Statistics: Mathematics 351, 352;
  - c. Applications: Mathematics 310, 320, 322, 357, 360.
4. Additional courses selected from Mathematics 305, 310, 315, 320, 322, 323, 324, 327, 330, 331, 335, 340, 342, 351, 352, 357, 360, 372, 390, 395, and 499 (if approved by the department chair).
5. Computer Information Systems 110 or 112.

To have a major in mathematics approved for graduation, you must have a minimum grade point average of 2.50 (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 Teacher Certification

Consists of at least 42 credits:

1. Mathematics 120, 121, 213, 222, 305, 331, 340, 351, 380, and Education 335.
2. At least one of Mathematics 323, 324.
3. Additional courses selected from Mathematics 310, 315, 320, 322, 323, 324, 327, 330, 331, 335, 342, 351, 352, 357, 360, 372, 390, 395, and 499 (if approved by the department chair).
4. Three credits in computer information systems.

To have a major in mathematics for teacher certification approved for graduation, you must have a minimum grade point average of 2.50 in the mathematics 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.

## Mathematics Minor

Consists of 22 credits including Mathematics 120, 121, 222, and 213, and at least 6 credits in courses numbered 300 and above.

## Applied Mathematics Minor

Consists of at least 23 credits including Mathematics 120, 121, 351, 352, and completion of three courses from Mathematics 222, 305, 310, 315, 320, 357, and 360.

## Mathematics Minor for Elementary Education Majors

Consists of 22 credits:

1. Required: Mathematics 338, 355, 359, 369; Mathematics Education 359, 369.
2. Electives, 6 credits from: Mathematics 102, 106, 108, 109, 111, 120, 121, 213, 305; up to 2 credits of approved course work in computer information systems.
3. Required but not part of the minor: Mathematics 228 and Mathematics Education 228, 338, 345 or 346.

## Mathematics Minor for Teacher Certification

Consists of at least 30 credits:

1. Mathematics 120, 121, 213, 331 or 335, 340, 351 or 355, and additional credits selected from Mathematics 222, 305, 323, 331, 335, or 380 to total at least 24 credits.
2. Three credits of computer information systems.
3. Education 335.

## Notes:

1. A minimum grade point average of 2.75 is required for teacher certification.
2. Elementary education majors are required to take Mathematics 228, 338, Mathematics Education 228,

338 and Mathematics Education 345 (non-Center) or Mathematics Education 346 (Center).

**Master of Science in Teaching (Mathematics)**  
Is offered in cooperation with UW-Oshkosh. You can get more information from the department office.

## Mathematics Placement Test

The mathematics placement test is given to all new freshmen as you 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, along with your high school record (mathematics courses and grades), 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.

## Courses in Mathematics

Also see listing under *Mathematics Education*.

**\*\*MATH 050. Essentials of Beginning Algebra and Geometry I.** 2 cr. Beginning algebra; linear equations and inequalities of one variable; informal geometry. For those with low placement test scores who need practice in fundamental math skills. Begin this course the semester when you first enroll and remain continuously enrolled in Math 50 and 51 until the remedial requirement is complete. Does not count toward a degree.

**\*\*MATH 051. Essentials of Beginning Algebra and Geometry II.** 2 cr. Beginning algebra; quadratic equations of one variable; informal geometry and graphing of linear equations of two variables. For students with low placement test scores who need practice in fundamental math skills. Begin this course the semester when you first enroll or as soon as you pass Math 50 and remain continuously enrolled until the remedial requirement is complete. Does not count toward a degree. Prereq: 050 or suitable placement test score.

**\*\*IMPORTANT:** UW-System policy limits you to a total of 12 credits during any semester in which you enroll in Math 50 and/or 51. The costs of offering Math 50/51 are covered by special course fees paid by the students enrolled in the courses. The fee amount will be determined each semester. There will be no refunds for drops in Math 50/51 after the first week of classes.

**MATH 100. College Algebra.** 2 cr. Functions, solutions and graphs of linear and quadratic equations, inequalities and systems of equations; logarithmic and exponential functions. Prereq: 051 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 106. Not to be used as a substitute for Math 106 in preparation for Math 120. May not earn credit in both Math 101 and 106. Prereq: 100 or placement into 101. GDR: MATH BS BM/BFA

**MATH 102. Pre-Calculus Algebra I.** 2 cr. A functional approach to algebra: topics include concepts, graphs, and properties of functions; inverse functions; algebraic and some transcendental functions. Prereq: 100 or a suitable placement test score. GDR: MATH BS BM/BFA

**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, BM, or BFA degrees. Prereq: Math 051 or suitable placement test score. GDR: MATH BA

**MATH 106. Trigonometry.** 2 cr. Trigonometric functions, their basic properties and graphs; inverse trigonometric functions; identities; applications. May not earn credit in both Math 101 and 106. Prereq: 102 or a suitable placement test score. GDR: MATH BS BM/BFA

**MATH 108. Pre-Calculus Algebra II.** 2 cr. Continuation of 102. Topics include techniques of graphing; conic sections; linear and nonlinear systems; arithmetic and geometric series; mathematical induction and the binomial theorem. Prereq: 102 or a suitable placement test score. GDR: MATH BS BM/BFA

**MATH 109. Mathematics for the Social and Management Sciences.** (formerly 115-116). 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** (formerly 116-117). 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 120. Analytic Geometry and Calculus I.** 4 cr. Analytic geometry of the plane; differentiation and integration of algebraic functions with some applications. Prereq: 106 and 108 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. A transitional course to prepare students for upper-level courses in mathematics; topics in the foundations of mathematics, including set theory, functions, finite induction, equivalence relations and partitions, order relations, countable and uncountable sets; introductory topics in linear algebra, including matrix algebra, Gauss-Jordan elimination, vector spaces, linear independence, determinants, orthogonality, linear transformations and their matrix representation, eigenvalues and eigenvectors, and applications; emphasis on reading and writing formal mathematical proofs. 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 mathematics. Three hrs lec, two hrs lab per wk. Prereq: 100, or testout; and con reg in Mathematics Education 228. Does not count toward mathematics major or minor. GDR: MATH BS BM/BFA

**MATH 305. Discrete Mathematics.** 3 cr. Graph theory: isomorphism, connectedness, Eulerian and Hamiltonian circuits, diagraphs, trees; combinatorics: counting principles, arrangements and selections, permutations and combinations, recurrence relations, inclusion/exclusion principle. Prereq: 120, or 109.

**MATH 310. Network Models.** 3 cr. Flows in networks and the max-flow min-cut theorem, maximal and optimal flows, transportation and dynamic flow networks, shortest and longest route problems, critical path problems, computer solutions. Prereq: 305.

**MATH 315. Linear Programming.** 3 cr. Formulation of LP problems, convex sets, simplex method, pivoting and reduction, duality, postoptimization analysis, sensitivity analysis, parametric studies, applications, use of related computer software. Prereq: 121, or 109.

**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; system of ordinary equations, with certain applications. Prereq: 222.

**MATH 322/522. 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: 213.

**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 213 or cons instr.

**MATH 327/527. Advanced Calculus.** 3 cr. Advanced treatment of infinite series, partial derivatives, exact differentials, lines, surface and volume integrals, and generalized integrals. Prereq: 222 and 213 or cons instr.

**MATH 328. Mathematics for Early Childhood Education.** 4 cr. Basic concepts of sets, logic, classification, number systems, informal geometry, measurement, and statistics. May not earn credit in both 228 and 328. Prereq: Cons instr, and Math 100 or suitable placement score and con reg in Math Ed 328. Does not count toward the major or minor in mathematics. GDR: MATH BS

**MATH 330/530. Intermediate Linear Algebra.** 3 cr. Canonical forms (congruence, equivalence, similarities); applications. Prereq: 213.

**MATH 331/531. Abstract Algebra.** 3 cr. Groups, rings, fields, number systems, Euclidean domains, and polynomials. Prereq: 213.

**MATH 335/535. Number Theory.** 3 cr. Primes, composites, and divisibility; congruences and residue classes; number-theoretic functions; Diophantine equations. Prereq: 213 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. Three hrs lec, two hrs lab per wk. Prereq: 228 and con reg in Mathematics Education 338. Does not count toward mathematics 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: 121.

**MATH 341/541. Modern Geometry.** 3 cr. Historical and logical development of geometries; introduction to various geometries using synthetic and coordinate methods; classification of geometries. Prereq: 213.

**MATH 342/542. Projective Geometry.** 3 cr. Projective spaces; finite projective planes; the projective plane over the real numbers; special configurations, affine planes. Prereq: 213.

**MATH 347/547. Geometry for Elementary and Junior High School Teachers.** 3 cr. Metric and nonmetric properties of curves, surfaces, and solids; plane construction; models of surfaces and solids; measurement of length, area, and volume; coordinate geometry of the plane; finite geometry. May not earn credit in both 347/547 and 338. Prereq: Cons instr.

**MATH 351/551. Probability and Statistics I.** 3 cr. Probability from a set-theoretic viewpoint, probabilities in discrete sample spaces; random variables; properties of distributions. Prereq: 121.

**MATH 352/552. Probability and Statistics II.** 3 cr. Probability density functions; moments; Student T and Chi-square distributions; correlation and regression; tests of hypotheses; applications. Prereq: 351.

**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. Not to be counted toward a major or minor in mathematics, or the major for teacher certification. Prereq: 100 or a suitable placement test score. GDR: MATH BS BM/BFA

**MATH 357. Decision Analysis.** 3 cr. Quantitative approaches to the solution of multicriteria decision problems with uncertainty and risk, Bayesian methods, utility theory. Prereq: 121, or 109.

**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 and Computer Information Systems 110 or 112 or 113, or cons chair.

**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 372/572. Topology.** 3 cr. Topologies; topological spaces, relative topologies; separation axioms; connectedness; compactness, metrizability; continuity. Prereq: 213.

**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 be repeated for a maximum of 3 credits with different subtitles. Prereq: Cons instr.

**MATH 499. Special Work.** Upperclass mathematics majors may arrange for independent study with cons chair. Credit will be based on the scope of the project. Three credits may apply to the major.

## Courses in Mathematics Education

**M ED 228. Teaching Elementary School Mathematics.** 1 cr. Principles, goals, methods, and techniques. Prereq: Con reg in Mathematics 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 Mathematics 328.

**M ED 335. Techniques in Secondary Education.** 3 cr. Aims, methods, materials, techniques, planning, organization, testing, and field experience. Same as Education 335. Prereq: Jr st and admission to Professional Education Program.

**M ED 338. Teaching Elementary School Mathematics II.** 1 cr. Principles, goals, methods, and techniques. Prereq: Con reg in Mathematics 338.

**M ED 345. Teaching Elementary School Mathematics III.** 1 cr. Principles, goals, methods, and techniques with practicum. Prereq: Con reg in Mathematics 338. Not open to Center Program participants.

**M ED 346. Teaching Elementary School Mathematics III.** 3 cr. Principles, goals, methods, and techniques of elementary school mathematics, field experience. Prereq: Mathematics 338 and con reg in the Elementary Education Center for the Study of Teaching.

**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 mathematics. Prereq: Math 338 and con reg in Math 369.

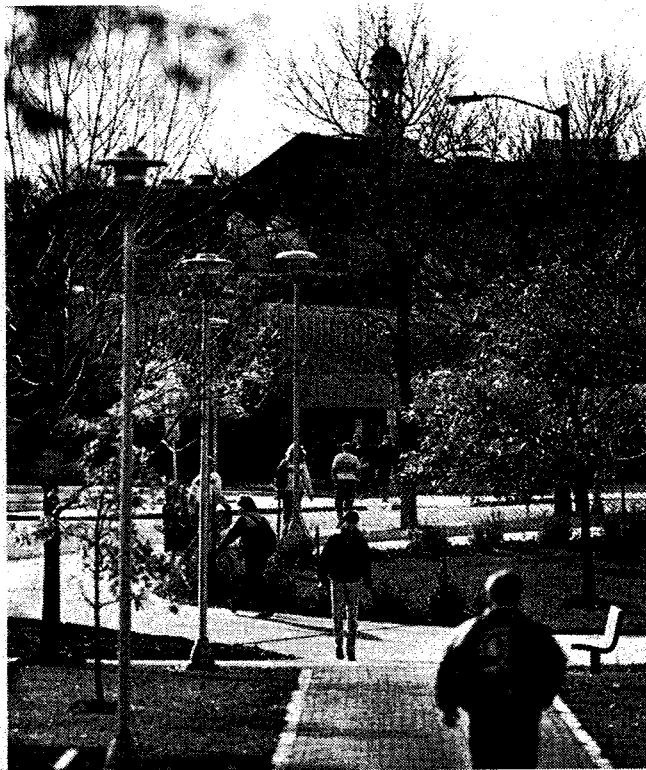
**M ED 375/575. A Laboratory Approach to Mathematics.** 3 cr. Use of laboratory techniques for learning and teaching mathematics; planning, equipping, maintaining and designing instructional materials for a mathematics laboratory. For teachers with little previous training in use of a mathematics laboratory. 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.** 8-16 cr. 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 will be based on the scope of the project.



## Medical Technology

(College of Professional Studies)

Susan Raab, Director  
Room D-127A, Science Building  
Phone: (715) 346-3766

**Faculty:** Bulgrin, Raab.

### Medical Technology Major

Consists of the academic and clinical program:

1. **Academic Program:** 110-111 credits (not including required physical education) of on-campus study including the following:
  - a. The bachelor of science general degree requirements. (As a medical technology student you are required to complete 3 credits of physical education to correspond to the three years you are on campus. These credits must include 2 aerobic activity credits and 1 health enhancement credit.)
  - b. Medical Technology, 29 credits: 105, 205, 295, 305, 315, 325, 335, 345, 355, 365, 375, 385.
  - c. Chemistry, 24-25 credits: 115 and 116, 248, 325, 326, 328, 365. (NOTE: Chemistry 105 and 106 may be accepted in lieu of 115 and 116 with permission of the director of medical technology. Permission from the chemistry

chair is required to enter Chemistry 325 and 328.)

- d. Biology, 16 credits: 160, 210, 285, 333.
  - e. Physics, 5 credits: 101, 103, or 104.
  - f. Mathematics, 4 credits: 355.
  - g. For acceptance and continued registration as a candidate for this degree, a grade point average of 2.75 overall as well as in the sciences, including medical technology and mathematics is recommended. If you do not meet this standard, you may petition the director of medical technology for consideration. The minimum GPA for graduation is 2.50.
  - h. Registration in summer session is required for the summer following the sophomore or junior year.
2. **Clinical Practicum:** When you complete the academic program, you will serve a nine-month clinical practicum in a hospital medical technology program accredited by the Committee on Allied Health Education and Accreditation (CAHEA) in cooperation with the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). This university has affiliation agreements with the following medical technology programs to provide clinical practicum education for seniors. The director and the educational coordinators of the medical technology programs are given courtesy appointments as university adjunct faculty:
    - Berkshire Medical Center, Pittsfield, Massachusetts: William Beautyman, M.D., Linda Billings, MBA, MT(ASCP); Sacred Heart Hospital, Eau Claire: Thomas W. Hadley, M.D., Jane Scheuermann, MT(ASCP); St. Elizabeth's Hospital, Appleton: Peter Podlusk, M.D.; Carla Salmon, MT(ASCP), CLS; St. Joseph's Hospital, Marshfield: C. N. Reyes, M.D., Virginia Narlock, Ph.D., MT(ASCP), St. Luke's Hospital: Claude Oberdorfer, M.D., Martin Putz, MA, MT(ASCP), CLS; St. Vincent Hospital, Green Bay: D.P. Sharphol, M.D., Ruth A. Bloy, MT(ASCP), CLS; Wausau Hospital Center, Wausau: Kathy Belgea, M.D., Sue Johnson, MEPD, MT(ASCP).
  3. Meeting or exceeding the requirements for eligibility to apply for clinical practicum does not guarantee that you will be placed in a position. The University of Wisconsin-Stevens Point does not award practicums. The hospitals interview, screen, and ultimately select candidates for the clinical experience.

### 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. Two hrs lec per wk.

**MEDT 205. Clinical Orientation.** 1 cr. Hospital introduction to laboratory techniques. Open only to students majoring in medical technology. Pass-Fail ONLY.

**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. Two hrs lec per wk.

**MEDT 305. Hematology.** 3 cr. Basic concepts in hematology, immunohematology, coagulation, and urinalysis. Two hrs lec, three hrs lab per wk. Prereq: Biology 285.

**MEDT 315. Clinical Microbiology.** 2 cr. Isolation and identification of human pathogenic microorganisms and the relationships of these organisms to diseases. Prereq: Biology 333.

**MEDT 325. Clinical Parasitology.** 2 cr. Morphology, life history, diagnosis, and control of the common animal parasites affecting man. Prereq: Biology 160. Not open to students with credit or con reg in Biology 362.

**MEDT 335. Clinical Instrumentation.** 3 cr. Basic concepts, operation, and troubleshooting techniques of automated instrumentation; introduction to quality control, statistics, clinical quantitative analysis, computerization, clinical chemistry, and laboratory safety. Two hrs lec, three hrs lab per wk. Prereq: Chemistry 248.

**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 355. Immunology.** 3 cr. Basic concepts in immunology, serology, immunohematology; antigen/antibody and immunochemical reactions; measurement of immune response. Prereq: Biology 285.

**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. Two hrs lec per wk. Independent lab. Prereq: Biology 285.

**MEDT 375. Quality Assurance and Laboratory Management.** 3 cr. Topics addressed will include accreditation and licensing, policy and procedure writing, method and instrument evaluation, cost analysis, and quality control programs for the clinical laboratory. In addition, leadership techniques and styles of management will be explored with emphasis on time and personnel management, problem-solving, and marketing. Three hrs lec per wk. Prereq: Jr st or cons instr.

**MEDT 385. Professional Development.** 3 cr. Study of professional roles, responsibilities, contemporary problems and conflicts, and education within the professional setting. Three hrs lec per wk. Prereq: Jr st.

**MEDT 395. Ramifications of Emerging Biotechnology in Health Care: Concerns and Conflicts.** 3 cr. Success and limitation of technological advancements in health care: political, social, economic, ethical issues as they relate to health, disease, and technology; contemporary health concerns and conflicts. Three hrs lec per wk. Prereq: Jr st. GDR:TCI BA BS

**MEDT 399. Special Work.** Special independent research projects. Credit to be based on the scope of the project. Prereq: Jr st and cons chair.

## Clinical Practicum

The following courses describe the clinical practicum (34 credits). These courses are taught only at affiliated clinical laboratories.

**MEDT 404. Introduction to Clinical Chemistry.** 1 cr. Basic concepts and methodologies in the chemical analysis of body fluids.

**MEDT 405. Clinical Chemistry I.** 5 cr. Concepts in clinical biochemistry; measurement of specific substances in body fluids by chemical analytical techniques, and correlation of results with disease states; principles of instrumentation; quality control.

**MEDT 406. Clinical Chemistry II.** 4 cr. Continuation of 405; drug screening and identification.

**MEDT 415. Clinical Hematology I.** 3 cr. Collection of blood specimens; fundamentals of blood and bone marrow composition,

function, and cell morphology; normal morphology and pathologic conditions of cellular elements; laboratory techniques.

**MEDT 416. Clinical Hematology II.** 4 cr. Continuation of 415; theories of blood coagulation and hemostasis; diagnosis of bleeding disorders with laboratory testing and correlation of these results with clinical history.

**MEDT 425. Clinical Microbiology I.** 4 cr. Techniques and theories of medical diagnostic bacteriology; special emphasis on cultivation, identification, isolation, antimicrobial sensitivity of pathogenic bacteria; principles of sterilization, asepsis, and infection control.

**MEDT 426. Clinical Microbiology II.** 4 cr. Continuation of 425; mycology, fungal contaminants, laboratory techniques; parasitology: division of medical protozoology, helminthology, and arthropodology, virology and Rickettsiae: characteristics of organisms, laboratory technique for isolation and identification.

**MEDT 435. Clinical Immunology-Serology.** 2 cr. Antigens and antibodies; stimulation, production, and their interaction; immunodeficiency diseases; tumor and organ transplants; performance of qualitative and quantitative serological procedures.

**MEDT 445. Immunohematology.** 3 cr. Application of the principles of immunology and genetics to grouping and crossmatching of blood and its components for transfusion; donor collection and processing; titration of selected antibodies and their relation to transfusion reactions and the use of transfusion therapy in disease conditions.

**MEDT 446. Immunohematology II.** 3 cr. Continuation of 445.

**MEDT 455. Clinical Urinalysis.** 1 cr. Theory of renal function in health and disease; renal function tests including chemical and microscopic examination of urine.

## Microelectronics and Microcomputer Systems

(College of Letters and Science)

Allen G. Taylor, Coordinator  
Room B-111, Physics Office, Science Building  
Phone: (715) 346-3947

### Microelectronics and Microcomputer Systems Minor

The interdepartmental minor consists of 23 credits: Computer Information Systems 110 or 112, 230, 305; Physics 301, 302, 390 and 391.

The Department of Physics and Astronomy administers the minor.





## Military Science

(College of Professional Studies)

Lieutenant Colonel Roy A. Yenchesky, Chair  
Room 204, Student Services Center  
Phone: (715) 346-3821

**Faculty:** Gann, Heusohn, Loomis, Liunoras, Marszalek, Yenchesky.

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, and Army National Guard. The Reserve Officers' Training Corps (ROTC) Program is an elective program which 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 U.S. Army leader or in a civilian career. 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 U.S. Army 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.

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 course work in the following areas: written communication skills, human behavior, military history, mathematical reasoning, and computer literacy. In most cases these requirements can be met by selecting courses that will satisfy both this and your general degree requirements. Contact your ROTC adviser for a list of suggested courses.

\*MIL 101, 102, 211, and 214 may be waived for veterans and students who have completed the six-week ROTC Basic Camp or Army National Guard/Army Reserve

basic training. Up to 6 academic credits may be available to students who participate in the six-week ROTC Basic Camp. Specific questions on requirements should be directed 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. Specific subtopics vary but may include land navigation, marksmanship, rappelling, water safety, first aid, physical fitness, leadership, survival, and cold weather indoctrination. One hr lec per wk and optional two hrs lab every other wk.

**MIL 102. Introduction to Military Science.** 1 cr. Continuation of 101.

**MIL 103. Leadership Laboratory.** 1 cr. Apply basic principles of leadership in actual situations to complement instruction in other military science courses. Understanding group dynamics; increase expertise in military competency, communication, and motivation skills. Two hrs every other wk. Prereq: Con reg in 101 or 102.

**MIL 104. Leadership Laboratory.** 1 cr. Same as 103. Required performance in organization leadership positions. Prereq: Con reg in 101 or 102.

**MIL 211. Orienteering and Basic Survival.** 2 cr. Fundamentals of map reading, land navigation, and first aid, with approximately eight hrs of outdoor field orienteering; basic wilderness survival to include techniques and psychological factors. Two hrs lec per wk and optional two hrs lab every other wk. 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. Three-day field experience included. Two hrs lec and one hr disc per wk. Optional 2 hrs lab every other wk. Prereq: 211 or cons chair.

**MIL 215. Leadership Laboratory.** 1 cr. Required performance in organizational leadership positions. Prereq: Con reg in 211 or cons chair.

**MIL 216. Leadership Laboratory.** 1 cr. Required performance in organization leadership positions. Con reg in 214 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. Two hrs lec and one hr disc per wk and two hrs lab every other week. 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; application of the principles of leadership; development of potential by planning, preparing, and presenting practical instruction. Three hrs lec per wk and two hrs lab every other wk. Prereq: 301 or cons chair.

**MIL 399. Special Work in Contemporary Military Leadership.** 1-3 cr. Advanced military science students may, by agreement with the chair of the department, 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. Three hrs lec, two hrs lab every other wk. 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). Two hrs lec and one hr disc per wk, and two hrs lab every other wk. 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 for which counts toward fulfillment of the physical education general degree requirements:

**GPE 153/154. Advanced Physical Fitness.** 1 cr. Physical training program designed to increase upper body strength and endurance. Activities include weight training, aerobic exercise, jogging, and participation in a variety of individual and team sports.

**GPE 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: rockface rappelling, basic military skills, and a leader's reaction course.

**GPE 178/188. Winter 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: cross-country skiing, snowshoeing, winter sports triathlon, and a leader's reaction course.

## Museum Techniques

(College of Letters and Science)

Charles A. Long, Adviser  
Room 428, Natural Resources Building  
Phone: (715) 346-2858, -2455

William LeGrande, Museum Director  
Room 426A, Natural Resources Building  
Phone: (715) 346-4254

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 103 or 106; or Instructional Resources 231 and Art 101 or 102.
3. Either a or b:
  - a. Anthropology 250, 393, and 340S.
  - b. One or more of these: Biology 305, 342, 360, 372, 374, 376, 377, 378.
4. The remaining courses to be selected from Anthropology 111; Biology 305, 379, 388; Communication 330; Computer Information Systems 102; Geology 105, 200; Instructional Resources 231; Natural Resources 368 or 369.
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)

Donald E. Greene, Chair  
Room B120, College of Fine Arts Building  
Phone: (715) 346-3107

**Faculty:** Arrowood, Beadle, d'Armand, D'Ercole, Doebler, Eckels, Goan, Greene, Kase, Keller, Leviton, B. Martz, D. Martz, McKenna, Miles, Rosen, L. Smith, Splittberger-Rosen, D. Stewart, J. Thomas, Zenz.

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.

The following organizations are open to all students: Pointer Marching Band, University or Concert Choir, Men's Chorus, Women's Chorus, Oratorio Chorus, Wind Ensemble, Symphonic or University Band, Vocal and Instrumental Jazz Ensemble, University Orchestra, plus numerous small ensembles.

### Notes:

- Music majors are required to register for 2 credits of large ensemble every semester (normally, a total of 16 credits, with exceptions for recital, student teaching, and transfer.)
- Four semesters of marching band are required for wind and percussion music education majors.
- Four semesters of chamber ensemble are required for string music education majors.
- There is a recital attendance requirement for all music majors. See the Music Department Student Handbook.
- Small ensembles are available if you wish additional experience in the specialty literature.
- Permission to register, placement, and exceptions to the requirements are subject to the approval of the instructor and the chair.

All general degree requirements for the bachelor of music degree or bachelor of arts degree must be met. Refer to the *General Degree Requirements* section of this catalog.

### 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.

**Bachelor of Arts Degree in Music**

Consists of 44-50 credits.

1. Theory, 16 credits: Music 110, 111, 112, 113, 210, 211, 212, 213. Placement examination required. If you have insufficient background, take Music 109 as prerequisite.
2. Applied music, 8-14 credits.
  - a. Major applied instrument, 8 credits. A proficiency of Level IV must be earned on the major instrument before graduation.
  - b. Minor applied instrument, 0-6 credits. When piano is not the major applied instrument, it must be taken for 6 credits or to Level III, whichever is reached first.
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.** Students are admitted by audition only; performance proficiency toward the degree will be reviewed at the end of the second semester of the freshman year for permission to continue. A half recital is required in the junior year and a full recital in the senior year. A proficiency grade of VII in piano must be reached for presentation of the senior recital and graduation.
  - a. Applied music, 28 credits: 160, 4 credits; 260, 360, and 460, 24 credits.
  - b. Theory, 22 credits: 110, 111, 112, 113, 210, 211, 212, 213; and 6 credits from 310, 313, 314, 315, 316, 317, 410, 411. Placement examination required. If you have insufficient background, take Music 109 as prerequisite.
  - c. Music literature and history, 14 credits: 220, 221, 320, 321, 420, 421.
  - d. Piano pedagogy, 2 credits: 491.
  - e. Required ensemble, 16 credits: Must include at least two credits in 328 or 429. Eligibility will be determined by the instructor and the coordinator for accompanying. (See NOTE, above.)
2. **Organ.** Students are admitted only by a piano audition before the organ and piano faculty. Level IV proficiency in piano is required. A half recital is required in the junior year, and a full recital (including at least three selections from memory) in the senior year. Organ proficiency of Level VIII is required for performance in the senior recital and for graduation.
  - a. Applied music, 28 credits: 161, 4 credits; 261, 361, 461, 24 credits.
  - b. Theory, 22 credits: 110, 111, 112, 113, 210, 211, 212, 213, 310, and 410 or 411.
  - c. Music literature and history, 14 credits: 220, 221, 320, 321, 324, 325.
  - d. Service playing techniques, 2 credits: 349.
  - e. Required ensemble, 16 credits (choral area preferred). (See NOTE, above.)
3. **Voice.** Students are admitted by audition only. Performance proficiency toward the degree will be reviewed at the end of the second semester of the freshman year for permission to continue. By the end of the sophomore year you are expected to achieve a proficiency level of III in piano and IV in voice. A half recital is required in the junior year and a full recital in the senior year. A proficiency of Level VII in voice must be reached for presentation of the senior recital and graduation. Level III in piano is also required for graduation.
  - a. Applied music, 28 credits: 162, 4 credits; 262, 362, and 462, 24 credits.
  - b. Theory, 22 credits: 110, 111, 112, 113, 210, 211, 212, 213, 317; and 4 credits from 310, 313, 314, 410, 411. Placement examination required. If you have insufficient background, take Music 109 as prerequisite.
  - 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.
4. **String instrument.** Students are admitted by audition only. You must reach a proficiency of Level III in piano and VII in the major instrument, and give a senior recital.
  - a. Applied music, 28 credits: 163 through 166, 4 credits; 263 through 266, 363 through 366, and 463 through 466, 24 credits.
  - b. Theory, 28 credits: 110, 111, 112, 113, 210, 211, 212, 213, 315, 317, and 8 credits from 310, 313, 314, 316, 410, 411. Placement examination required. If you have insufficient background, take Music 109 as prerequisite.
  - 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. (See NOTE, above.)
5. **Wind instrument.** Students are admitted by audition only. Performance proficiency toward the degree will be reviewed at the end of the second semester of the freshman year for permission to continue. By the end of the sophomore year you are expected to achieve a proficiency of Level III in piano and IV in the appropriate instrument. A half recital must be presented in the junior year and a full recital in the senior year. A proficiency of Level VII must be reached for completion of the recital and for graduation. Level III in piano is also required for graduation.
  - a. Applied music, 28 credits: 167 through 176, 4 credits; 267 through 276, 367 through 376, and 467 through 476, 24 credits.
  - b. Theory, 28 credits: 110, 111, 112, 113, 210, 211, 212, 213, 315, 317; and 8 credits from 310, 313, 314, 316, 410, 411. Placement examination required. If you have insufficient background, take Music 109 as prerequisite.

- 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.)
6. **Percussion.** Students are admitted by audition only. Performance proficiency toward the degree will be reviewed at the end of the second semester of the freshman year for permission to continue. By the end of the sophomore year you are expected to achieve a proficiency of Level III in piano and IV in the appropriate instrument. A half recital must be presented in the junior year and a full recital in the senior year. A proficiency of Level VII must be reached for completion of the recital and for graduation.
- a. Applied music, 28 credits: 177, 4 credits; 277, 377, and 477, (24 credits).
  - b. Theory, 28 credits: 110, 111, 112, 113, 210, 211, 212, 213, 315, 317, and 8 credits from 310, 313, 314, 316, 410, 411. Placement examination is required. If you have insufficient background, take Music 109 as prerequisite.
  - 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.)
7. **Classical Guitar.** Students are admitted by audition only. Performance proficiency toward the degree will be reviewed at the end of the second semester of the freshman year for permission to continue. By the end of the sophomore year you are expected to achieve a proficiency of Level III in piano and IV in the appropriate instrument. A half recital must be presented in the junior year and a full recital in the senior year. A proficiency of Level VII must be

reached for completion of the recital and for graduation. You must submit a research paper on a theoretical, historical, or pedagogical topic dealing with the guitar.

- a. Applied music, 28 credits: 181, 4 credits; Music 280, 380, and 480, 24 credits. Class Guitar (149) should be waived in the audition and cannot count toward the 28 credits of applied music.
- b. Theory, 28 credits: 110, 111, 112, 113, 210, 211, 212, 213, 315, 317; and 8 credits from 310, 313, 314, 316, 410, 411. Placement examination required. If you have insufficient background, take Music 109 as prerequisite.
- c. Music history and literature, 11 credits: 220, 221, 320, 321, 326.
- d. Small ensemble, 6 credits: 131, 231, 331, 431 (Guitar Ensemble).
- e. Required ensemble, 16 credits. (See NOTE, above.)

**Bachelor of Music—Jazz Studies Option**

1. Theory, 18 credits: 110, 111, 112, 113, 210, 211, 212, 213, 317.
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:** Students are admitted by audition only. A proficiency of level VI is required on the major applied instrument. A proficiency of Level III is required on piano if it is not the 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. A senior recital is required for all performance majors.



- 1) Applied music, 30 credits: 4 credits from 160, 162, 166 through 177, 181; 24 credits from 260, 262, 266 through 277, 281, 360, 362, 366 through 377, 381, 460, 462, 466 through 477, 481; 2 credits of 392.
  - 2) Required ensemble, 24 credits: 8 credits from 341, 342, 343 (guitar and piano majors may substitute 123 or 140); 12 credits from 124, 125, 126, 344, 345; 4 credits from 123, 130, 390.
- b. **Composition/Arranging Emphasis:** You must maintain a B average in the first two years of music theory to be accepted into this emphasis. A proficiency of Level V is required on the major applied instrument. A proficiency of Level IV is required on the piano if it is not the major instrument.
- 1) Theory electives, 12-14 credits: 310, 315, 316, 396, 410, 411.
  - 2) Composition/arranging, 10 credits: 4 credits of 379; 417, 482.
  - 3) Applied music, 10 credits: 4 credits from 160 through 181; 4 credits from 260 through 281; 2 credits from 360 through 381.
  - 4) Required ensemble, 12 credits: 8 credits from 341, 342, 343 (guitar and piano majors may substitute 123 or 140); 4 credits from 123, 124, 125, 126, 130, 344, 345.
  - 5) Music electives: 4-6 credits.

**Bachelor of Music—Music Education Option**

Three majors are available 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, special areas of emphasis are designed to complement the music education tracks (noncertifiable): jazz education, and Suzuki talent education.

**Proficiency Levels:** A proficiency of Level V must be earned on the major instrument. Piano proficiency requirements are Level III for instrumental majors and Level IV for choral and general music majors. If piano or organ is the major instrument, choral and general music majors must reach Level IV in voice.

You must complete all requirements before you begin your student teaching/internship semester.

1. **Instrumental (K-12):**
  - a. Education, 15 credits: 101, 280, 351, 381, 386. You also need History 211 and 212; Political Science 201; Sociology 305; one biological science and one physical science course. You must have a 2.75 GPA to student teach.
  - b. Music Education, 21 credits: 201, 324, 326, 398.
  - c. Music, 65 credits:
    - 1) Theory, 16 credits: 110, 111, 112, 113, 210, 211, 212, 213. Placement examination is required. If you have insufficient

- background, take Music 109 as prerequisite.
- 2) Orchestration, 2 credits: 315.
- 3) Applied music, 10 credits (Level V).
- 4) Music literature, 8 credits: 220, 221, 320, 321.
- 5) Class applied, 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 358 for 152 or 153.)
- 6) Music 159 (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, 15 credits: 101, 280, 351, 381, 386. You also need History 211 and 212; Political Science 201; Sociology 305; one biological science and one physical science course. You must have a 2.75 GPA to student teach.
- b. Music Education, 19 credits: 201, 325, 398.
- c. Music, 64 credits:
  - 1) Theory, 16 credits: 110, 111, 112, 113, 210, 211, 212, 213. Placement examination is required. If you have insufficient background, take Music 109 as a prerequisite.
  - 2) Vocal pedagogy, 2 credits: 492.
  - 3) Applied music (major), 10 credits: Voice, piano, or organ (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, 15 credits: 101, 280, 351, 381, 386. You also need History 211 and 212; Political Science 201; Sociology 305; one biological science and one physical science course. You must have a 2.75 GPA to student teach.
- b. Music Education, 21 credits: 201, 323, 382, 398.
- c. Music, 59 credits:
  - 1) Theory, 16 credits: 110, 111, 112, 113, 210, 211, 212, 213. Placement examination is required. If you have insufficient background, take Music 109 as prerequisite.
  - 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 one of the following: 304, 305, or 329.
  - 5) Conducting, 2 credits: 317.

- 6) Major ensemble, 14 credits: 341. (See NOTE above.)
4. **Add-on certification areas.** Voice, piano, and organ majors are advised to complete both choral (7-12) and general music (K-12) tracks. Instrumental majors may also wish to expand their 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 Education 398. Minimum of 5 credits.
  - 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 Education 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, choir: 6 credits. Additional Music History, 3 credits: Choice of 304, 305, or 329.
    - 2) Student teaching, Music Education 398. Minimum of 5 credits.
  - d. *Exceptional education: music education (#861):* This add-on certification is available only to music education majors.
    - 1) Music Education 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 for areas of emphasis 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 Education 427.
  - b. Suzuki talent education, 9 credits: Music Education 384/584, 385/585, 386/586, 426.

**Bachelor of Music—Music Literature Option**  
 In this program you must have a cumulative grade point average of at least 3.00 by the end of the sophomore year to be considered a candidate for the degree. Senior candidates will take an oral examination administered by

- the music history faculty during the first two weeks of the second semester in their senior year.
1. Theory, 16 credits: 110, 111, 112, 113, 210, 211, 212, 213. Placement examination required. If you have insufficient background, take Music 109 as prerequisite.
  2. Theory electives, 4 credits: 310, 313, 314, 315, 316, 410, 411.
  3. Applied music (major), 12 credits: A proficiency of Level V must be earned on the major instrument before graduation. A proficiency of Level IV on piano is required if it is not the major instrument.
  4. Required ensemble, 16 credits. (See NOTE, above.)
  5. Music literature. 33 credits:
    - a. Required courses, 21 credits: 220, 221, 320, 321, 326, 329, and 427 (each 3 credits).
    - b. Electives, 12 credits: Choice of 304, 305, 322, 323, 324, 325, 420, 421, 422, 423, 426 (each 3 credits).

**Bachelor of Music—Theory/Composition Option**

In this program you must maintain at least a B average in the first two years of music theory to be considered a candidate for a major in theory/composition. You must reach a proficiency of Level IV in piano and V in a major instrument.

1. Applied music, 10 credits: A proficiency of Level V must be earned in the major instrument. A proficiency of Level IV in piano is required if piano is not the major instrument.
2. Theory, 34 credits: 110, 111, 112, 113, 210, 211, 212, 213, 310, 315, 316, 317, 318, 410, 411. Placement examination is required. If you have insufficient background, take Music 109 as prerequisite.
3. Composition, 4 credits: 179 through 379, as determined by audition.
4. Music literature and history, 8 credits: 220, 221, 320, 321.
5. Required ensemble, 16 credits. (See NOTE above.)
6. Music electives, 6 credits.
7. In the second semester of your junior year, you will choose, with permission of the theory/composition faculty, a theory emphasis or a composition emphasis. The following additional courses are required:
  - a. For the theory emphasis: Computer Information Systems 101; Music 499, Theory Teaching Internship, 2 credits; Baccalaureate Paper, 3 credits.
  - b. For the composition emphasis: Music 379, 479, 8 credits including senior recital.

**Music Minor**

Consists of 24 credits:

1. Theory, 8 credits: 110, 111, 112, 113. Placement examination required. If you have insufficient background, take Music 109 as prerequisite.
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: (Note: Music 100, 102, 109; Music Ed 201, 381 do not count toward the music minor.)
- Theory/composition courses.
  - Conducting courses.
  - Music history and literature courses.
  - Music education courses.
  - Small ensembles or major ensembles.
  - Jazz studies: performance, history, or analysis.
  - Private applied or class applied.
5. Recital attendance requirement, no credit. See the Music Department student handbook.

NOTE: 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.

## 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. Not to be counted toward a music major or minor, or the 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. Not to be counted toward a 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 be repeated 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 present which might include pop, electronic, and music of Third World. How music enhances film and molds viewers perception. Does not count toward music major or minor.

**MUS 105. 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.

**MUS 109. Fundamentals of Music Theory.** 2 cr. A survey of the basic elements of musical structure and communication (notation, rhythm, scales, intervals, chords), and their application toward developing vocal, manual, and aural musicianship skills. Three hrs per wk.

**MUS 110. Elementary Theory.** 3 cr. Review of theory fundamentals, introduction to part-writing, harmonic and structural analysis in the diatonic idiom, and supporting keyboard skills. Con reg in 112 required. Prereq: Placement exam; students with insufficient background must take 109.

**MUS 111. Elementary Theory.** 3 cr. Extension of written and keyboard musicianship skills in elementary techniques of modulation and chromaticism. Con reg in 113 required. Prereq: 110, 112.

**MUS 112. Elementary Music Reading and Ear-Training.** 1 cr. Applied musicianship skills. Con reg in 110 required. Prereq: Same as 110.

**MUS 113. Elementary Music Reading and Ear-Training.** 1 cr. Extension of applied musicianship skills. Con reg in 111 required. Prereq: 110, 112.

**MUS 122-138. Small Ensembles I.** Each 1 cr. May be repeated 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—Percussion.

**MUS 140. Oratorio Chorus.** 2 cr. A university/community chorus which performs the choral masterworks. Open to anyone with or without credit. May be repeated for credit. Prereq: Audition or cons instr.

**MUS 143. Marching Band.** 1 cr. Open to nonmusic majors. No audition required. May be repeated for credit.

**MUS 144. University Band.** 1 cr. An opportunity for nonmusic majors to continue playing in a musical organization for enrichment. No audition necessary. May be repeated for credit.

**MUS 149-157. Class Applied Music.** Each 2 cr (except 150). The elements of each medium taught by class participation and observation.

149—Guitar; 150 (1 cr)—Vocal Techniques for Instrumentalists; 151—Voice; 152—Violin/Viola; 153—Cello/Bass (Prereq: 152); 154—Double Reeds/Flute; 155—Single Reeds; 156—Brass; 157—Percussion.

**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. Not to be counted toward a 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 in the harmonization of simple melodies; for students in elementary education.

**MUS 160-181. Applied Music I.** Each 2 cr. Prereq: Cons chair.

160—Piano; 161—Organ; 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—Baritone; 176—Tuba; 177—Percussion; 178—Harp; 179—Composition; 180—Classical Guitar; 181—Jazz Guitar.

**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 for first eight weeks; 2 cr for the full semester.

**MUS 193. Music Improvisation.** 2 cr. Applied improvisation using the musical materials of 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. Intermediate Theory.** 3 cr. Partwriting, harmonic and structural analysis in the chromatic idiom, and supporting keyboard skills. Con reg in 212 required. Prereq: 111, 113.

**MUS 211. Intermediate Theory.** 3 cr. Extension of theory and musicianship to the contemporary idiom; historical survey of musical form and style, with individual creativity and supporting keyboard skills. Con reg in 213 required. Prereq: 210, 212.

**MUS 212. Intermediate Music Reading and Ear-Training.** 1 cr. Advanced applied musicianship skills. Con reg in 210 required. Prereq: 111, 113.

**MUS 213. Intermediate Music Reading and Ear-Training.** 1 cr. Extension of advanced applied musicianship skills. Con reg in 211 required. Prereq: 210, 212.

NOTE: If you fail or receive an incomplete in applied musicianship courses (112, 113, 212, 213), 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. Baroque Period.** 2 or 3 cr. Musical idioms and styles of the Baroque period; its origins in antiquity, development and rise of new forms, and the relationship of music to the general culture of the period. Majors in music history/literature must register for 3 cr; other majors with cons instr. GDR:HU1

**MUS 221. Classic Period.** 2 cr. (3 cr with Writing Emphasis.) Musical idioms and styles from 1700 to 1825; development of new forms; relationship of music to the general culture of the period. Majors in music history/literature must register for 3 cr. GDR:HU1

**MUS 222-238. Small Ensembles II.** Each 1 cr. Same listing as 122-138 at sophomore level. May be repeated once for credit. Prereq: 122-138.

**MUS 260-281. Applied Music II.** Applied music majors receive 4 cr; others 2 cr. Same listing as 160-181 at sophomore level. May be repeated 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 303/503. Diction for Singers.** 2 cr. Application of international phonetic alphabet to lyric diction in English, Italian, German, and French repertoire. Prereq: Cons instr.

**MUS 304/504. 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 310. Counterpoint.** 3 cr. Writing and analysis of contrapuntal forms and textures useful to the composer-arranger; emphasis on the stylistic contribution of J. S. Bach and the Baroque era. Prereq: 211, 213.

**MUS 313/513. Composition.** 2 cr. Twentieth century composition techniques with vocal and instrumental projects in short chamber forms. Prereq: 211 or cons instr.

**MUS 314/514. Composition.** 2 cr. Twentieth century compositional techniques with projects in large forms for chamber ensembles. Prereq: 211 or cons instr.

**MUS 315. Orchestration.** 2 cr. Orchestral instruments in regard to their ranges, playing characteristics, physical properties, history, and advisable use. Prereq: 110.

**MUS 316/516. Electronic Music Studio.** 1-3 cr. Generation, synthesis, mixing, and recording of electronic and live sounds, including operation of the synthesizer, multi-track recording, and techniques of producing tapes of sound effects, transcriptions, and original compositions for a variety of artistic and commercial applications. Prereq: Cons instr.

**MUS 317. Conducting.** 2 cr. Conducting techniques for vocal and instrumental groups; experience in conducting through class laboratory situations. Prereq: 110.

**MUS 318. Instrumentation.** 2 cr. Contemporary instrumental techniques emphasizing their use in small ensembles. Prereq: 315.

**MUS 319/519. Introduction to Music Business.** 2 cr. Copyright law, unions and guilds, recording industry, television/film and radio, music management.

**MUS 320/520. Romantic Period.** 2 or 3 cr. Musical idioms and styles of the Romantic Period from 1825 to 1900; its origins, development, rise of new forms, and the relationship of music to the general culture of the period. Majors in music history-literature must register for 3 cr, others with cons instr. GDR:HU1

**MUS 321/521. Music in the 20th Century.** 2 or 3 cr. Musical idioms and styles from 1900 to the present; its origins, development, rise of new forms, and the relationship of music to the general culture of the period. Majors in music history-literature must register for 3 cr, others with cons instr. GDR:HU1

**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 324/524. Organ Literature I.** 3 cr. Basic organ literature from the 14th century to the late 17th century, including the important predecessors of J.S. Bach, their styles, and the organs for which they wrote. Prereq: Keyboard proficiency of Level IV.

**MUS 325/525. Organ Literature II.** 3 cr. Continuation of Music 324, with emphasis on the works of J.S. Bach through the contemporary period; style analysis by means of recordings and score study, with outside research assignments. (324 and 325 need not be taken in sequence.) Prereq: Keyboard proficiency of Level IV.

**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.** Each 1 cr. May be repeated 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 be repeated for credit. Prereq: Audition or cons instr.

**MUS 342/542. Large Ensemble: Orchestra.** 1 or 2\* cr. May be repeated for credit. Prereq: Audition or cons instr.

**MUS 343/543. Large Ensemble: Band.** 1 or 2\* cr. May be repeated for credit. Prereq: Audition or cons instr.

**MUS 344/544. Large Ensemble: Vocal Jazz.** 2\* cr. May be repeated up to 16 cr. Prereq: Audition or cons instr.

**MUS 345/545. Large Ensemble: Instrumental Jazz.** 2\* cr. May be repeated up to 16 cr. Prereq: Audition or cons instr.

\*Students not majoring in music may attend five rehearsals weekly for 2 cr, or three rehearsals for 1 cr, with optional scheduling. During the fall semester of their junior and senior years, students majoring in music education-instrumental must register for 1 cr of marching band, and 1 cr of wind ensemble or symphonic band.

**MUS 349. Service Playing Techniques.** 2 cr. Practical application of the problems in church service playing, with introduction to the performance in liturgical forms, anthem and oratorio accompaniments, piano adaptations for the organ, modulations, transposition, improvisation, conducting from the console, and hymnology. May be repeated for a maximum of 4 cr with cons instr. Prereq: 211, 213; organ proficiency of Level IV.

**MUS 359-382. Applied Music III.** Applied music majors receive 4 cr; others 2 cr. Junior and senior 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 – Baritone; 376 – Tuba; 377 – Percussion; 378 – Harp; 379 – Composition; 380 – Classical Guitar; 381 – Jazz Guitar; 382 – Keyboard Synthesizers.

**MUS 390. Opera/Musical Theatre Workshop.** 1 cr. Practical experience in opera, operetta, musical comedy. May be repeated 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 396/596. Introduction to Recording Techniques.** 2 cr. Principles and practices of auditorium and studio recording including multi-track taping, mixing, overdubbing, mixing and signal processing; experience in recording in a variety of instrumental and vocal ensembles.

**MUS 410. Form and Analysis I.** 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 411. Form and Analysis II.** 3 cr. Continuation of 410 from Beethoven to the present. (410 and 411 need not be taken in sequence.) Prereq: 211, 213.

**MUS 412/612. Projects in Electronic Music.** 1-3 cr. Individually designed projects; credit assigned according to studio time and resources required. Prereq: 316/516 and cons instr.

**MUS 413/613. Composition.** 2 cr. Twentieth century compositional techniques with projects in multisectional forms for large ensembles. Prereq: 211 or cons instr.

**MUS 414/614. Composition.** 2 cr. Twentieth century compositional techniques with projects in improvisation and experimental media. Prereq: 211 or cons instr.

**MUS 415/615. Band Arranging Techniques.** 2 cr. Special attention to arranging needs of high school wind ensembles with particular emphasis on production numbers, solo backgrounds, small ensembles, and accompaniments.

**MUS 416/616. Choral Arranging Techniques.** 2 cr. Arranging for standard adult and adolescent choral groups, in the popular and serious idioms, with special attention to the needs of high school and specialty organizations. Prereq: Open only to music majors; or cons instr.

**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 with emphasis on 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, with emphasis on composers from Mozart to the present.

**MUS 426/626. Chamber Music.** 3 cr. Survey of chamber music, with emphasis on literature of the string quartet and other instrumental chamber ensembles. GDR:HU1

**MUS 427/627. Symphonic Music.** 3 cr. Survey of symphonic music, with emphasis on literature of the symphony and symphonic program music. GDR:HU1

**MUS 428(NW). Music Cultures of the Pacific, the Near East, and Asia.** 3 cr. Basic kinds of music and musical instruments found in the major oriental civilizations and in the island cultures of the Eastern Hemisphere. GDR:HU1

**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.** Each 1 cr. May be repeated 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 459-482. Applied Music IV.** Same description and listing as 359/382 at senior level. Prereq: 359/382 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 be repeated 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 approval of project by instructor.

**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 with special attention to specific problems of each instrument.

**MUS 494. Brass Pedagogy.** 2 cr. Methods of teaching brass instruments with special attention to 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 will be based on the 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.** Each 2 cr. 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. Two 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; open only to music majors and minors.

**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; open only to music majors and minors.

**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: Music 109, 149, or 159; or 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 the 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 the SAA.)

**MUED 387/587. Survey of Suzuki Talent Education.** 2 cr. (Section 1-Level I, may be repeated 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; Education 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 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.** Each 2 cr. 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 be repeated once for a maximum of 12 cr.

**MUED 799. Thesis.** 2-6 cr.

## MUSIC LITERATURE

See *Music*.

## MUSIC THEORY/COMPOSITION

See *Music*.

## MUSICAL THEATRE

See *Theatre and Dance*.

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# Natural Resources, College of

Alan Haney, Dean

Richard Wilke, Associate Dean

Don Mortenson, Senior Administrative Specialist  
Room 136, College of Natural Resources Building  
Phone: (715) 346-4617 or -2853

The College of Natural Resources offers degrees in forestry, paper science, resource management, soils, water, and wildlife. These courses are described under the appropriate headings in the following pages.

Majors and/or minors are offered in camp and youth agency administration and programming, captive wildlife management, environmental communication, environmental education/interpretation, environmental law enforcement, forestry, forest recreation, international resource management, land use planning, outdoor education, resource management, soil science, 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 courses in resource management, forestry, soils, water, and wildlife, 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.

To be accepted and retained as a major or minor and to be approved for graduation, you must have a minimum grade point average of 2.00 in all courses taken within the major or minor (2.75 to student teach in resource management) (2.25 in wildlife and forestry), including collateral courses, regardless of a declaration of

academic bankruptcy. The associate dean may allow exceptions on a conditional basis.

The Master of Science Degree - Natural Resources is described in the graduate catalog.

## Camp and Youth Agency Administration and Programming Minor

Consists of 25 credits directed at the principles and practices of program planning, administration, and environmental education within youth agencies and camps.

1. Required courses, 13 credits: Natural Resources 300 or 370, 376, 382, 383.
2. Twelve credits from the following areas: Psychology 260, 315, or Sociology 226, 261, 315. See adviser for other options in recreation.
3. Internship experience is recommended. See your adviser.

## Captive Wildlife Management Minor

Consists of 26 credits.

1. Required, 12 credits: Biology 281; Wildlife 321, 322, 355.
2. Three credits from Biology 210, 388.
3. Two credits from Biology 385, 386; Wildlife 305.
4. Three credits from Wildlife 381; Biology 499.
5. Additional six credits from Natural Resources 320, 367, 368; Biology 210, 322, 362, 372, 388; Wildlife 456.

## Environmental Communication Minor

Open only to majors within the College of Natural Resources. It consists of 25 credits:

1. Required core courses, 10 credits: Natural Resources 320, 363, 364, 365, 366, 368.
2. Fifteen credits distributed as follows: 3-6 credits from Communication 211, 217; 9-12 credits from Communication 252, 322, 330, 340, 342, 361, 365, 391, 394; English 354; Instructional Resources 231, 331, 332, 362.

## Environmental Education/Interpretation Minor

Consists of 26 credits. It is open only to majors in the College of Natural Resources and the Department of Biology. (Others may request special permission from the dean of the College of Natural Resources.)

1. Required courses, 20 credits: Natural Resources 300, 363, 364, 365, 366, 368, 374, 376, 478. If you are not majoring in the College of Natural Resources, you must also take Natural Resources 370.
2. Three to 6 elective credits from field courses selected in consultation with the coordinator of the environmental education/interpretation 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 education core: Natural Resources 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 100 or 101.
3. Electives: Biology 305, Philosophy 380, other courses approved by adviser.

### **Environmental Law Enforcement Minor**

Provides a conservation law enforcement background and is available to all majors in the College of Natural Resources, and to others with the approval of the dean of the college.

The minor consists of 22 credits: Natural Resources 393 (3 credits), 440, and 473; General Physical Education 123; Sociology 230 (101 or 102 is prereq); and three courses from Philosophy 315, 380, Political Science 212, 313.

### **Environmental Studies Minor**

Administered by the College of Letters and Science. See description earlier in this catalog.

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## **Forestry**

Robert W. Miller, Coordinator  
Room 326, College of Natural Resources Building  
Phone: (715) 346-4189

**Faculty:** Brush, Cook, D. Crunkilton, David, Geesey, Haney, Harms, Hauge, Houghton, Lee, R. W. Miller, Robert Rogers, 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.

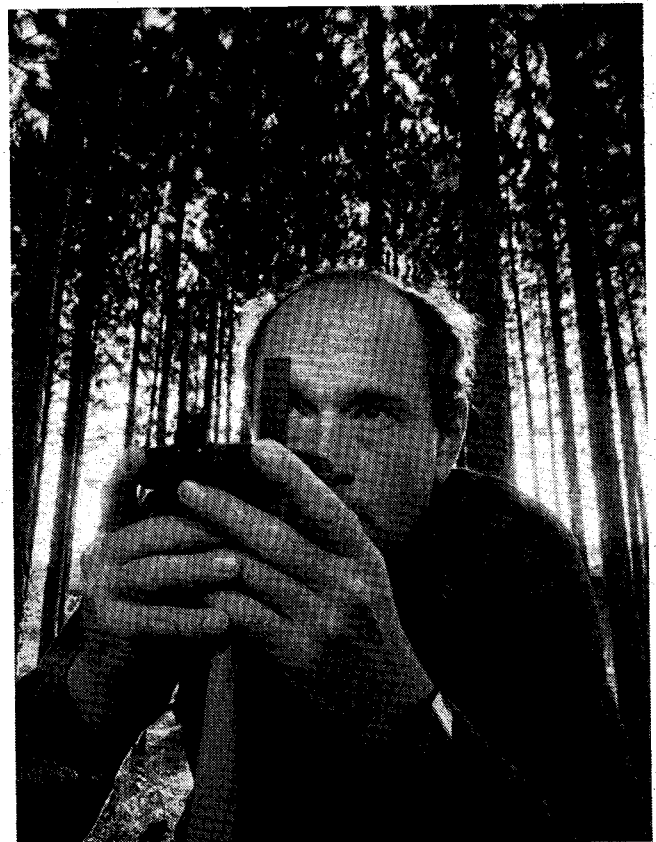
To be admitted as a forestry major, you must petition the forestry faculty after you have completed 45 or more credits at this or any other accredited university. Preliminary admission to the forestry major and permission to take 300-400 level forestry courses (except Forestry 319, 320 and 325) is granted if you have earned at least a 2.25 grade point average in the forestry major.

Final admission to the forestry major is based on the above minimum grade point averages computed after you complete Forestry 319 and 320.

Your enrollment in 300-400 level forestry courses (except Forestry 325) will be withdrawn until you satisfy the minimum 2.25 grade point requirement after completing Forestry 319 and 320 (or NR 475).

### **Forestry Major**

1. Major study and approved electives to total 130 credits in addition to the required physical education (total: 134 credits).
2. Required courses, 73 credits: Biology 130, 160; Chemistry 105; Computer Information Systems 110 or 112; Economics 210; Forestry 120, 221, 321, 322, 326, 327, 332, 425, 432; Mathematics 101, 111; Natural Resources 170, 372, 490; Philosophy 380; Soils 260; Water 180; Wildlife 140.





3. Six credits of summer camp courses: Forestry 319, 320, Soils 359, 360, Wildlife 340, Water 380; or Natural Resources 475.

4. Completion of one of the five following collateral emphases:

**a. Forest Management**

- 1) Forestry 328, 329, 433, 4 credits of 324 or 424 or 426; Natural Resources 377; Biology 351 with Biology 130 and Chemistry 105 accepted as prerequisites; Communication 211 or 217.
- 2) Eight credits selected from the following electives: Forestry 324\*, 325, 330, 331, 333, 335, 350, 385, 394, 424\*, 426\*, 428, 431, 434, 440, 480, 493; Natural Resources 171, 320, 323, 357, 371, 473, 474; Paper Science 101; Soils 361; Water 389, 493; Wildlife 451. (\*If not taken to meet requirements in 4a1 above.)

**b. Forest Administration**

- 1) Forestry 328; Natural Resources 377; and one of the following: Economics 311\*, 315\*, 360, 365\*, 370, or 372; (\*Economics 210 and Natural Resources 372 satisfy the prerequisites for these courses.)
- 2) Eight credits selected from the following electives: Forestry 324, 325, 329, 330, 331, 333, 335, 350, 385, 394, 424, 426, 428, 431, 433, 434, 440, 480, 493; Natural Resources 171, 320, 323, 357, 371, 473, 474; Paper Science 101; Soils 361; Water 389, 493; Wildlife 451.

At least 12 credits from b3 and b4 below, distributed as follows:

- 3) Three to 6 credits from: Communication 211, 217, 230, 272, 330, 336, 340, 365, 383, 385; English 251.
- 4) Six to 9 credits from: Business 280, 330, 340, 350, 360, 384, 385; additional economics course selected from those listed in b1 above; Political Science 250, 308, 320, 351, 354, 356, 358; Psychology 345; Sociology 311, 312, 315, 356, 359.

If you wish to complete a minor in business administration, you may substitute Natural Resources 372 for Economics 211. If you wish to complete a minor in economics, you may substitute Natural Resources 372 for Economics 211 and Forestry 321 for Economics 310.

**c. Urban Forestry**

- 1) Forestry 331, 333, 335, 385, 424, 426, 431; Natural Resources 320; Biology 351 with Biology 130 and Chemistry 105 accepted as prerequisites.
- 2) Six credits selected from: Forestry 324, 395, 430; Wildlife 454; Biology 344, 346; Natural Resources 335, 357, 377, 474.

**d. Forest Recreation**

- 1) Forestry 324, 330, 331 or 333, 335, 385, 394, 426, 480; Natural Resources 320, 367, 2 credits from 363, 364, 365, 366.

- 2) Five or 6 credits from Forestry 334, 424, 430, 431, 433; Natural Resources 335, 357, 377, 393, 440, 473, 474, or any 300-400-level wildlife course beyond Wildlife 320, excluding 340.

**e. Wood Utilization and Marketing**

- 1) Business 330, 340, 360, 380; Communication 211; Forestry 328, 329, 370, 428, 429; Paper Science 101.
- 2) Recommended: Accounting 210, 211 and Business 381 to complete the business minor.

**Forest Recreation Minor**

Consists of 27 or 29 credits:

1. Forestry 324, 330, 331, 335, 394 (1 or 2 cr), 480; at least 4 credits from Natural Resources 363, 364, 365, 366, 367, 368.
2. Six credits from the following: Forestry 221, 332, 333, 385, 493; Natural Resources 320, 393 or 473, 474; Wildlife (any 300-400 level course approved by your adviser).

**Forestry Minor**

Consists of 22 credits:

1. Forestry 120, 322, 332, 425, 432.
2. Eight credits from Forestry 221, 319, 320, 324, 325, 327, 328, 335, 493; Natural Resources 372; Soils 361.

**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 UW-Stevens Point forestry courses.

**Courses in Forestry**

**FOR 120. Introduction to Forestry.** 3 cr. Introduction to the forest resources of the United States with special emphasis on the role of forestry in historic and current events; elementary mensuration; management techniques. Two hrs lec, two hrs lab per week. (I, II)

**FOR 221. Dendrology.** 3 cr. Identification, classification, distribution, and economic importance of the principal forest trees of the United States. Two hrs lec, two hrs lab per wk. Prereq: 120 or cons instr. (I, II)

**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 319. Land Surveying.** 1 cr. Practices in land surveying, including distance and angular measurement, area computation and mapping, stadia, notekeeping, and deed searching for integrated resource management. Prereq: Forestry 120. (SS)

**FOR 320. Field Experience in Forest Measurement.** 1 cr. Application of forest measurement techniques and ecological relationships for integrated resource management. Prereq: Forestry 120 (SS)

**FOR 321. Forest Biometry.** 4 cr. Use applied mathematical and statistical methods to solve forestry problems. Three hrs lec, two hrs lab per wk. May not earn credit in both 321 and Math 355. Prereq: Math 100. (I, II)

**FOR 322/522. Forest Mensuration.** 3 cr. Measure forest stands, products, and growth; construct and use appropriate instruments, tables, and surveys. Two hrs lec, three hrs lab per wk. Prereq: Mathematics 355 or Forestry 321. (I, 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: 120, 320, 327 or 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; Soils 260 or cons instr. (II)

**FOR 326. Amenity Forestry.** 3 cr. Management of forests for nontimber values including recreation, landscape aesthetics, and urban forestry. Two 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. Two hrs lec, 2 hrs lab per wk. Prereq: 120, Biology 130, 160, or 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. Two hrs lec, two hrs lab per wk. Prereq: Summer Camp or cons instr. (I, II)

**FOR 329/529. Harvesting Systems.** 2 cr. North American tree harvesting systems: felling, limbing, bucking, forwarding, loading and hauling, analysis of safety procedures, equipment selection and maintenance, environmental implications, and cost determinations. Prereq: Summer Camp or 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: 227 or 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. (I)

**FOR 332/532. Silvics.** 3 cr. Ecological foundations of silviculture with reference to forest site factors; influence of forest on the environment; growth and development of trees and stands; origin, development, and classification of forest communities. Two hrs lec, three hrs lab per wk. Prereq: 221, 320; or cons instr. (I)

**FOR 333/533. Urban Forestry.** 2 cr. Management of trees and other vegetation in metropolitan areas to enhance the urban environment. Prereq: 221 or cons instr. (I)

**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: 227 or cons instr.

**FOR 335. Recreational Use of Forests and Parks (formerly 227).** 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.

**FOR 350/550. Contemporary Issues in Forestry.** 1-3 cr. Current issues likely to influence forestry in the future. Subtitle will designate topic. May be repeated for credit with different subtitles. A maximum of 3 credits will count toward graduation. (II)

**FOR 370/570. Scaling, Grading, and Rating Systems.** 3 cr. Theory and practice of log scaling, lumber grading and product rating systems in the solid wood products industry. In-plant experiences. Prereq: 221, 328, or cons instr.

**FOR 381/581. Internship in Forestry.** 1-12 cr. Supervised training program in forestry in cooperation with private or public resource

agencies. One credit for 2-4 wks, (40 hrs per wk) of work. Credits and/or additional requirements determined by faculty before registration. May be repeated once for up to a maximum of 12 credits. Prereq: Summer Camp and/or cons intern director. (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: 227 or cons instr. (II)

**FOR 395. Tree Care Techniques.** 1 cr. Maintenance of mature trees, including pruning, cabling, and removal.

**FOR 424. Forest Pathology.** 2 cr. Diagnosis, ecology and integrated control of common forest and shade tree diseases. Two hrs lec, 2 hrs lab per wk. Prereq: Biology 130; Forestry 221, 327; or cons instr. (II)

**FOR 425/625. Forest Management and Finance.** 3 cr. Principles of organizing and regulating forest properties; valuation and investment analysis. Two hrs lec, two hrs lab per wk. Prereq: 322, 432; or cons instr. (II)

**FOR 426. Forest Entomology.** 2 cr. Identification, bioecology and integrated control of the more common and important forest insect families and species. Two hrs lec, 2 hrs lab per wk. Prereq: Biology 160; Forestry 221, 327; or cons instr. (I)

**FOR 428. Primary Forest Products.** 3 cr. Study of primary wood processing systems including: chip plants, sawmills, veneer and plywood plants, and composite board plants. Plant flows, processing centers, quality control systems, and market characteristics. Prereq: 328, 329; Natural Resources 372 or cons instr.

**FOR 429/629. Secondary Forest Products.** 3 cr. Study of secondary wood processing systems including: furniture manufacturing, door and window plants, cabinet manufacturing, trusses, manufactured housing, etc. Raw material requirements, plant flows, processing centers, quality control systems, and product markets (national and international). Prereq: 428 or cons instr.

**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. One hr lec, one hr lab per wk. Prereq: Biology 351. (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. Two hrs lec, three hrs lab per wk. Prereq: 320, 322, 332. (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 or cons instr. (II)

**FOR 434/634. Field Practices in Silviculture.** 3 cr. Field techniques in silviculture, including intermediate treatments of forest stands, forest regeneration techniques, and silvicultural management of forest stands. Prereq: 432. (SS)

**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: 221 or cons instr. (II)

**FOR 480/680. Forest Recreation Management.** 3 cr. Formulate recreation management objectives; determine user preferences and satisfaction; analyze ecological impacts and facility requirements of forest recreation use. Prereq: Summer Camp; Forestry 227, 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. One credit offered Pass-Fail; for 2 credits, complete comprehensive report. Prereq: Cons instr. (II)

**FOR 499. Special Work.** Upperclass forestry students may arrange for independent study with consent of the associate dean. Credit will be based on the scope of the project. (I, II)

**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: Natural Resources 372, Forestry 425, or cons instr. (II)

**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)

**FOR 796. Current Topics in Forestry.** 1-3 cr. Advanced course work on a specific area in forestry. Prereq: Cons instr.

### International Resource Management Minor

Consists of 22 credits for CNR majors and 31 credits for other majors:

1. Required courses:
  - a. Natural Resources 323 and one of the following: Natural Resources 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. Anthropology 370 or Sociology 327; Economics 365; Geography 113 or 120.
2. Three credits from: Anthropology 312, 335, 360; International Studies 100, 101, 423; Communication 336, 341; Economics 362, 367; Geography 300, 301, 327, 328, 340, 368; History 220; Natural Resources 300, 478; Philosophy 380; Political Science 280, 382; Psychology 240, 321.
3. Non-CNR majors are also required to take: Natural Resources 395 and two of the following: Forestry 120, Soils 260, Water 180, Wildlife 140.

### Land Use Planning Minor

Consists of 24 credits:

1. At least 9 credits from Natural Resources 474, 480, 484, 495.
2. Soils 365 and at least two of the following: Geography 276, 377 (or Natural Resources 377), 476, Natural Resources 444.
3. At least 3 credits from Political Science 242, 304, 341, Sociology 300, 356, 357, 358.
4. Three credits (if 24 credits are not achieved from 1, 2, and 3 above) from Forestry 330, 333, 385; Geography 379, 382; Natural Resources 320, 357, 371, 372, 380, 473, 477, 478; Political Science 250, 397; Water 382; Wildlife 450.

## Natural Resources Courses

The major in resource management is described under that heading later in this section.

**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 170. Introduction to Natural Resources.** 1 cr. The integrated management of natural resources and their role in man's natural, social, and economic welfare. Open to all students. (I, II) GDR:SS2

**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. One hr lec, six hrs lab per wk. Prereq: Mathematics 100 or equivalent training in trigonometry. (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 be repeated for maximum of 3 credits with different subtitles. Prereq: So st. (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.

**NRES 300/500. Foundations of Environmental Education.** 3 cr. Conceptual and philosophical basis for environmental education; analysis of instructional materials; strategies for developing and implementing environmental education programs. Prereq: Biology 305. (I)

**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 education 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: Cons instr. (I)

**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. One third of course time spent as seminar focusing on specific resource issues, countries or regions of the world. Prereq: 370 for non-CNR majors.

**NRES 330. Environmental Health.** 3 cr. Understanding the interactions between environmental quality and human health. Topics include toxicology; air, water, and soil quality; storage, handling, and transportation of hazardous materials; waste management and cleanup; environmental laws and regulations; worker and community right-to-know laws; and protection of workers involved in hazardous materials activities. Prereq: One semester college chemistry or equiv.

**NRES 335/535. Turf Management.** 2 cr. Selection, establishment and management of turf grasses for parks, lawns and other recreational land uses. One hr lec, two hrs lab. Prereq: Summer Camp and/or cons instr. (I, odd years)

**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 357. Air Resources.** 3 cr. Air chemical composition and reactions, air mass movement, contaminant transport, and meteorology. Air monitoring. Social and economic implications of air resource management technology.

**NRES 363/563. Interpretive Signs, Trails, and Waysides.** 1 cr. Design and produce interpretive signs, trails, and wayside exhibits for parks, recreation areas, natural areas, and other outdoor facilities. (II)

**NRES 364/564. Interpretive Publications.** 1 cr. Design and produce interpretive publications for parks, nature centers, and natural resource agencies. (II)

**NRES 365/565. Interpretation for Visitor Centers.** 1 cr. Develop and produce exhibits and devices for visitor centers in parks, recreation areas, and natural areas. (I)

**NRES 366/566. Planning for Interpretation.** 1 cr. Develop interpretive master plans for parks, recreation areas, and natural areas. Visit area interpretive facilities to observe how interpretive plans are implemented. (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. (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. (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 education content and methods. Fulfills the Wisconsin teacher certification requirements in environmental education. Not open to majors or minors in the College of Natural Resources. (I, II) GDR:TCI BA BS

**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. Two hrs lec, two hrs lab per wk. Prereq: Summer Camp or cons instr. Purchase of a 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 six-hr day per wk at Schmeckle Reserve. Prereq: Natural Resources 367 or 368 and 363, 364, 365, 366, or con reg or cons instr. (I, II)

**NRES 375/575. Environmental Field Studies.** 3 cr. Study environmental and natural history as a background for using the outdoors as a teaching laboratory. One hr lec, four hrs lab per wk. Not open to majors or minors in the College of Natural Resources. (SS)

**NRES 376/576. Environmental Education Practicum.** 4 cr. Practical experience in environmental education with K-12 school students. Emphasizes program and staff development, program planning, instruction and evaluation. One full day per week. Prereq: 300, 368, or con reg. (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. Two hrs

lec, two hrs lab per wk. May not earn credit in both Natural Resources 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 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. Two hrs lec, two hrs lab per wk. Prereq: Cons instr. (I)

**NRES 381/581. Internship in Natural Resources.** 1-12 cr. Supervised training program in resource management in cooperation with private or public resource agencies. One credit for 2-4 wks, (40 hrs per wk) of work. Credits and/or additional requirements determined by instructor before registration. May be repeated once for up to a maximum of 12 credits. Prereq: Forestry 319, 320, Soils 359, 360, Wildlife 340, and Water 380; and/or cons intern director. (I, II, SS)

**NRES 382/582. Youth Agency Administration.** 3 cr. Analysis of the historic background, development, organization, and purpose of youth agencies; structure, programming, policy development, voluntary board development, supervisory techniques, 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 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 be repeated for credit with different subtitles. Pay audit fee for 0 credits. (On demand)

**NRES 391/591. Naturalist Training Workshop.** 0-3 cr. Develop and present innovative natural history programs, techniques for trail walks, and interpretive programs. For volunteer naturalists and youth leaders. May be repeated for credit with different subtitles. Pay audit fee for 0 credit. (On demand)

**NRES 393. Environmental Law Enforcement.** 1-3 cr. Environmental law enforcement practices including search, seizure, ballistics, criminal codes, evidence collection and preservation. Subtitle will designate area. May be repeated with different subtitles to maximum of 3 credits. Offered in mini-session only. Prereq: Cons instr, 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 majors or minors in the College of Natural Resources. (I, II) GDR:TCI BA BS

**NRES 405/605. Selected Topics in Natural Resources.** 1-3 cr. Major concepts and problems in an area of natural resources. May be repeated 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 be repeated for credit with different subtitles.

**NRES 411/611. Principles of Environmental Education.** 1 cr. Philosophy, goals, curricula, and resources for environmental education.

**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 education 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: Political Science 212, or Sociology 230, or cons instr. (I, II)

**NRES 444/644. Computer Techniques in Resource Management Planning.** 2-3 cr. Use of microcomputers to aid land use data storage, analysis, and retrieval. How to prepare and present plans using electronic spreadsheets, graphics, and mapping programs for air, water, and land resources. Prereq: Microcomputer experience 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. (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: Forestry 120, Soils 260, Water 180, Wildlife 140. (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. Prereq: Cons instr. Two wks summer camp AND four wks in Germany is an alternative to regular summer camp. (SS)

**NRES 476/676. Hazardous Waste Management.** 3 cr. Chemical, biological, and technological aspects of hazardous waste management; regulations concerning the classification, treatment, and disposal of hazardous waste; environmental health and safety issues. Prereq: 380 or cons instr; Chemistry 116 or 106; Biology 101 or 130. Two hrs lec, two hrs lab per wk. (II)

**NRES 477/677. Development of Environmental Impact Statements.** 1 cr. Laws and regulations controlling EIS development; case studies; prepare and present an EIS. (I, II)

**NRES 478/678. Environmental Issues Investigation.** 3 cr. Review strategies for investigating environmental issues at local, state, regional, national, or international levels; explore systems and processes for resolving issues through political, legal, or educational channels. Student project involves investigation and action. GDR:TCI BA BS (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 management. (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 or cons instr. (I)

**NRES 490. Integrated Resource Management Seminar.** 1 or 2 cr. Individual and group investigation of current problems in conservation. Prereq: Sr st for majors or minors in natural resources. (I, II)

**NRES 493/693. Environmental Field Seminar.** 1 or 2 cr. Survey environmental problems and programs in selected regions of the United States. Prereq: Cons instr. (On demand)

**NRES 495/695. Ecological Basis for Planning and Design.** 3 cr. Ecological principles, relationships, and interaction between natural and man-made elements of the environment. Prereq: 474/674 or cons instr. (II)

**NRES 499. Special Work.** Upperclass natural resources majors and minors doing above average work may arrange for independent study with consent of the associate dean. Credit will be based on the scope of the project. (I, II)

**NRES 750. Research in Environmental Education and Interpretation.** 1 cr. Discussion of research methods, relevant literature, and current issues in environmental education and interpretation. May be repeated for maximum of 4 credits.

**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 management agencies and policies in Wisconsin.

**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. Principles and methods for designing and managing natural resources experimental investigations, statistical analysis of data, and preparation of research outlines. Prereq: 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 is designed to acquaint 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:

Forestry 493/693, Forestry Field Seminar, 1 or 2 cr; Natural Resources 475/675, International Environmental Studies Seminar, 2-8 cr; Natural Resources 493/693, Environmental Field Seminar, 1 or 2 cr; Soils 493/693, Soils Field Seminar, 1 or 2 cr; Wildlife 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, each for 1 credit. See the description of these courses under the appropriate heading in this section of this catalog.

### Outdoor Education Minor

Consists of 22 credits:

1. Required core courses, 12-18 credits: Biology 305; Education 350, 372; Natural Resources 376 or Education 398; Natural Resources 370, 375. NOTE: Majors and minors in the College of Natural Resources may not enroll in Natural Resources 370 or 375 for credit.
2. Electives: Select option a or b:
  - a. Four to 10 credits from: Art 347; Astronomy 311; Biology 342, 379; Geography 100 or 101; Physical Education 241.
  - b. Four to 10 credits selected by the student and approved by the dean of the College of Natural Resources.

### 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

Michael Gross, Coordinator  
Room 126, Natural Resources Building  
Phone: (715) 346-2076

**Faculty:** Aplin, Callicott, Champeau, Freckmann, Gross, Hensler, Klessig, Korth, Last, McReynolds, Meichtry, G. Meyer, Passineau, Sivek, C. Thomas, Wilke, Zimmerman.

### Resource Management Major

1. College of Natural Resources courses, 21 credits: Forestry 120; Natural Resources 170, 474, 478, 490; Soils 260 (high school chemistry with grade of B or better, or Chemistry 101 or 105 required as prerequisites); Water 180; Wildlife 140.
2. Biology, 13 credits: 130, 160, 305.
3. Summer camp courses, 6 credits: Forestry 319, 320, Soils 359, 360, Wildlife 340, Water 380, or 8 credits of Natural Resources 475.
4. Completion of ONE of the following collateral options:
  - a. **General Resource Management**, 18 to 21 credits: Chemistry 105 and 106, or 115 and 116; Geography 101 or Geology 104; Natural Resources 357, 372. NOTE: To prepare for a professional career, it is recommended that one or more minors be selected to accompany this option. Suggested minors include environmental communication, environmental education/interpretation, environmental law enforcement, forestry, forest recreation, international resource management, soil science, water resources, wildlife.
  - b. **Teacher Certification** (in secondary education: conservation), 25 credits: Chemistry 105 or 115; Geography 101 or Geology 104; Natural Resources 300; and 12 credits from Natural Resources 372, Geography 340, History 366, Philosophy 380, Political Science 304, Sociology 260. In addition, those seeking certification must complete the professional education sequence: Education 101, 280, 337, 351, 381, 386, 390, and 398. You also need History 212 and 3 credits from History 120, 130, 211, 379MNS, 382MNS, 385; Instructional Resources 331; Political Science 201; Sociology 305; one fine arts course; one humanities course that is literature. You must have a 2.75 GPA to student teach.
  - c. **Environmental Education and Interpretation**, 50-55 credits: Biology 322, 342, 377; Chemistry 101 or 105 or high school chemistry with grade of B or better; English 363; Geology 104; Natural Resources 300, 363, 364, 365, 366, 368, 374, 376; Philosophy 380; and 12 credits from Astronomy 311; Biology 307, 308, 355, 356, 357, 367, 372, 374, 376, 378, 384, 385, 386, 387, 405; Forestry 332, 426; History 382(MNS); Philosophy 381; Water 481; Wildlife 353.
  - d. **Youth Programming and Camp Management**, 60 credits: Business 280 and one of Business 330, 340, 381, 385; 3 credits from Computer



Information Systems 101, 102 (word processing, spreadsheet, database); Forestry 330, 335; Human Development 166, 261 or 265; Home Economics Education 390; Natural Resources 281, 300, 320, 367, 376, 382, 383, 2 credits from 363, 364, 365, 366; General Physical Education 123 or Physical Education 254; Psychology 110, 315 or Sociology 225; Education 351 or 3 credits from PEX 250, 300, 397.

- e. **Land Use Planning**, 45-48 credits:
  - 1) Required courses: Chemistry 105 and 106, or 115 and 116; Geography 101 or Geology 104; Natural Resources 372, 480, 484, 495; Soils 365.
  - 2) Twelve credits from Geography 276, 377 (or Natural Resources 377), 379, 476, Natural Resources 444, 477, Mathematics 355, Computer Information Systems (1-3 credits).
  - 3) Three credits from Forestry 330, 385, Geography 382, Natural Resources 320, 357, 371, 380, 473, Water 382.
  - 4) Three credits from Political Science 242, 304, 341, Sociology 300, 356, 357, 358.

**NOTE:** To be admitted to this option you need to have a 2.25 grade point average after you complete at least 45 credits from UW-Stevens Point or another accredited college or university. The associate dean may grant waivers for special circumstances. To graduate with this option you must have a 2.25 GPA in the major.

### Resource Management Minor

Consists of 22-25 credits including:

1. Forestry 120, Natural Resources 357 and 474, Soils 260, Water 180, Wildlife 140.
2. The remaining credits must be selected from courses offered by the College of Natural Resources numbered 300 and above. Those seeking teacher certification must select Natural Resources 300 and 478.



**Soil Science**

Aga Razvi, Coordinator  
Room 223, Natural Resources Building  
Phone: (715) 346-3618

**Faculty:** Harpstead, Hensler, Levine, Milfred, Razvi, Shaw.

**Soil Science Major**

1. Required, 30 credits: Natural Resources 170, 372, 490; Forestry 120; Water 180, Wildlife 140; Soils 260, 362, 364, 461, 465.
2. Collateral courses: Biology 130, 160, 351; Chemistry 105 and 106 (or 115 and 116), 220, 248; Geology 104, and one additional 300- or 400-level geology or physical geography course (NR 377 qualifies); Mathematics 100; Mathematics 106 or Computer Information Systems 101 or 102; Mathematics 111; Physics 201, 202.
3. Summer Camp courses, 6 credits: Forestry 319, 320, Soils 359, 360, Wildlife 340, Water 380, or 8 credits of Natural Resources 475.

**Soil Science Minor**

Consists of 22 credits with at least 15 credits of soils courses:

1. Required: Soils 260, 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 Natural Resources 377), 379, 476; Geology 200, 370; Natural Resources 335, 336, 373, 380, 476, 484; Water 487 (or Geology 487), 489 (or Geology 489), 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 Soil Conservation Service and the Forest Service. For a soil conservationist position, Natural Resources 373 is recommended.

**Courses in Soils**

**SOIL 260. Introduction to Soil Resources.** 4 cr. Origin and development of soil; relationship of physical, chemical, and biological properties to soil management. Three hrs lec, two hrs lab per wk. Prereq: One yr high school chemistry, or Chemistry 105 or eligibility for 115. Lab manual purchase required. (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 management. Prereq: Water 180 and Soils 260. (SS)

**SOIL 360. Field Experience in Soil Inventory Methods.** 1 cr. Techniques in describing, mapping, classifying, and interpreting soils for integrated resource management. Prereq: Soils 260. (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. Two hrs lec, 3 hrs lab per wk. Prereq: 260; Summer Camp or 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. One hr lec and two hrs lab per wk. Prereq: Summer Camp or cons instr.

**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. Two hrs lec, 3 hrs lab per wk. Prereq: Chemistry 116 or 106; Summer Camp or 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, and construction materials; identify the limitations and suitability of soils for specific planning purposes. Two hrs lec, 2 hrs lab per wk. Prereq: Summer Camp or 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 additional requirements determined by instructor before registration. May be repeated once up to a maximum of 12 credits. Prereq: Forestry 319, 320, Wildlife 340, and Water 380; or Natural Resources 475; and/or cons intern director. (I, II, SS)

**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. Two hrs lec, 3 hrs lab per wk. Prereq: Summer camp or cons instr (II)

**SOIL 465/665. Soil Physics.** 3 cr. Methods to determine physical properties of soils; how physical properties of soil influence plant growth, soil structure, water movement, and gas exchange. Two hrs lec, 3 hrs lab per wk. Prereq: Math 100; Physics 201; Summer Camp or 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 assignment will include summaries of selected reading and a field notebook. Prereq: Cons instr. (II)

**SOIL 496. Computer Software Application for Soils.** 1 cr. Subtitle will designate type of software. May be repeated for credit with different subtitle. Prereq: Computer Information Systems 101 and 102 or cons instr.

**SOIL 499. Special Work.** Upperclass soil science students may arrange for independent study with consent of the 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)

**Water Resources**

Stanley W. Szczytko  
Room 301, Natural Resources Building  
Phone: (715) 346-4181

**Faculty:** Coble, Copes, R. Crunkilton, Frie, Kraft, Mechenich, Nienke, Oszvath, Razvi, Roeder, Shaw, Spangenberg, E. Stern, Szczytko.

**Water Resources Major**

Consists of 130 credits (plus 4 credits of general physical education to total: 134 credits).

1. College of Natural Resources courses, 16 credits: Natural Resources 170, 490; Water 180, 480, 481; Soils 260.

2. Collateral courses, 23 credits: Chemistry 105 and 106, or 114 and 115 and 116, or 115 and 116; Computer Information Systems 101 and 102, or 110, or 112; Mathematics 111 or 120; Physics 201 and 202.
3. Completion of ONE of the following options:
  - a. **Fisheries**
    - 1) Required, 55-56 credits: Forestry 120; Wildlife 140; Geology 104; Natural Resources 372 or Economics 210; Biology 130, 160, 210, 281, 305, 374; Chemistry 220; Mathematics 355 or Psychology 300; Water 483, 484; 3 credits of Water 387 or Biology 361; 2 or 3 credits from: Water 387, 482, 485, 487; Biology 338, 361, 362.
    - 2) Summer Camp courses, 6 credits: Forestry 319, 320; Soils 359, 360, Wildlife 340; Water 380.
  - b. **Limnology**
    - 1) Required, 55-56 credits: Forestry 120; Wildlife 140; Geology 104; Natural Resources 372 or Economics 210; Biology 130, 160, 281, 305, 361; Biology 361 or Water 387; Chemistry 220; Mathematics 355 or Psychology 300; Water 389, 483; and 7 or 8 credits from two of the following: Water 382, 387, 485, 488; Biology 361, 374, 375.
    - 2) Summer Camp courses, 6 credits: Forestry 319, 320; Soils 359, 360; Wildlife 340; Water 380.
  - c. **Water Chemistry**
    - 1) A chemistry minor. See list of requirements in *Chemistry* section earlier in this catalog.
    - 2) Required, 32 credits: Forestry 120; Wildlife 140; Geology 104; Water 382 (1 credit), 389, 488; Natural Resources 372 or Economics 210, Biology 130, 160, 305; Water 387 or Biology 333 or 338.
    - 3) Summer Camp courses, 6 credits: Forestry 319, 320; Soils 359, 360; Wildlife 340; Water 380.
  - d. **Watershed Management**
    - 1) Required, 40 credits: Forestry 120; Wildlife 140; Geology 104; Natural Resources 372 or Economics 210; Biology 130, 160, 305; Natural Resources 377; Water 382 (3 credits), 389, 489, 493.
    - 2) Summer Camp courses, 6 credits: Forestry 319, 320; Soils 359, 360; Wildlife 340; Water 380.
    - 3) Courses to satisfy the soils, land use planning, forestry, or geology minor; or a concentration of courses approved by the adviser.
  - e. **Water and Wastewater Treatment**
    - 1) Required, 27 credits: Natural Resources 171, 380, and 474 or 495 or 484; Soils 365; Water 381, 382 (1 credit), 389, 482, 488, 489.
    - 2) Collateral courses, 33 credits: Biology 101, and two courses from Biology 333, 361,

338; Water 387; Chemistry 220; Economics 210, 211, and 311 or 312; Accounting 210, and Business 280 or 384.

f. **Aquatic Toxicology**

Required, 60 credits: Forestry 120; Wildlife 140; Chemistry 220, 260; Mathematics 355 or Psychology 300 or Forestry 321; Water 338, 381, 387, 483, 488, 494; Biology 130, 160, 281 or 285 or 351, 305, 361, 374; 3 credits from Water 382, 482, 485, 492, Biology 210, 303, 333, 373, Forestry 321.

g. **Groundwater**

1) Required, 54 credits: Forestry 120, Wildlife 140, Water 385, 389, 475, 487, 489, 495; Soils 465; Biology 101; Chemistry 220; Mathematics 355; Geology 104, 330, 352 or 370, and 200 or 310 or 340; Natural Resources 372 or Economics 210; Natural Resources 474 or 484; and Political Science 242.

2) Two credits of Natural Resources 475.

### Water Resources Minor

Consists of 23 credits:

1. Water 180, 480, 481.
2. Other water courses, 7-10 credits.
3. Select 3-6 credits from the following: Biology 305, 333, 338, 347, 375; Natural Resources 377, 380, 474, 477; Soils 260.

### Courses in Water

**WATR 180. Introduction to Water Resources.** 3 cr. Surface and subsurface water resources, their economic and social importance, control, and conservation. (I, II)

**WATR 199. Reading in the Discipline.** 1 cr. Improve higher-level critical reading and thinking skills needed for Water 180. Pass-Fail.

**WATR 338/538. Algology.** 3 cr. Taxonomy, morphology, and ecology of algae especially local species. Two hrs lec, 2 hrs lab per wk. Prereq: Biology 130. (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 be repeated for credit under different subtitles. GDR:TCI BA BS

**WATR 380. Field Experience in Aquatic Ecosystem Evaluation.** 1 cr. Fishery, limnological, and hydrological evaluation; lake and stream inventory and evaluation for integrated resource management. Prereq: 180. (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. One credit for 2-4 wks (40 hrs per wk) of work. Credits and/or additional requirements determined by instructor before registration. May be repeated once for up to maximum of 12 credits. Prereq: Forestry 319, 320, Wildlife 340, Soils 359, 360, Water 380; or Natural Resources 475; and/or cons intern director. (I, II)

**WATR 382/582. Water Quality Management.** 1 or 3 cr. For first six weeks, one credit: review federal and state water quality control legislation and the administrative rules and procedures used to implement them. For full semester, three credits: add study of selected water control systems. (I, II)

**WATR 385/585. Techniques in Hydrogeology.** 2 cr. Well drilling and installation, sampling, slug tests, pump tests, completing well logs, field chemical analysis, geophysical techniques. Prereq: Water 180, Geology 104.

**WATR 387/587. Aquatic Insects.** 3 cr. Collect and identify lotic and lentic insects that are important in fishery and water quality

evaluations. One hr lec, four hrs lab per wk. Prereq: Biology 160 or 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. Two hrs lec, two hrs lab per wk. Prereq: 180; and basic statistics course or cons instr. (I)

**WATR 475/675. Groundwater Management.** 3 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. Prereq: 489.

**WATR 480/680. Water Chemistry and Analysis.** 4 cr. Study and interpretation of chemical characteristics of polluted and unpolluted waters. Two hrs lec, 4 hrs lab per wk. Prereq: Chemistry 106 or 116, or cons instr. (I, II)

**WATR 481/681. Limnology.** 3 cr. Physical, chemical, and biological phenomena of freshwater communities. Prereq: Biol 305. (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. Two hrs lec, two hrs lab per wk. Prereq: 481 or cons instr. (I)

**WATR 483. Limnology and Fisheries Research.** 3 cr. Field or laboratory research project requiring written proposal, data collection, results report, and oral presentation for the investigation of lake and stream ecosystems. Prereq: 481 or con reg; and cons instr. (I)

**WATR 484/684. Fisheries Management.** 3 cr. Principles of management of inland waters for fish production. Prereq: 441; Biology 374; Summer Camp; or cons instr. (II)

**WATR 485/685. Ecology of Freshwater Benthic Indicator Organisms.** 3 cr. Factors affecting the distribution and microhabitat selection of freshwater benthos including life history events, feeding mechanisms, drift, pollution biology, nutrient spiralling, and anatomical, behavioral, and physiological adaptations. Prereq: 387/587 and 481/681; or Biology 361/561 or cons instr.

**WATR 486/686. Fish Culture.** 2 cr. Principles, problems, and technique of fish culture under artificial conditions. One hr lec, two hrs lab per wk. Prereq: 481, 484, or cons instr. (On demand)

**WATR 487/687. Geochemistry of Natural Waters.** 3 cr. Factors controlling the chemistry of surface and subsurface waters; hydrochemical behavior of contaminants; groundwater quality management. May not earn credit in both Water 487 and Geology 487. Prereq: Chemistry 106 or 116; Water 180, or cons instr. (I)

**WATR 488/688. Water and Wastewater Treatment.** 3 cr. A nonengineering approach to the methods of water treatment, routine laboratory testing, and protection of systems; domestic waste disposal by water carriage and nonwater carriage methods; small unit and municipal disposal methods. (II)

**WATR 489/689. 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. Two hrs lec, two hrs lab per wk. May not earn credit in both Water 489 and Geology 489. Prereq: Geology 101 or 104, Water 180, or cons instr. (II)

**WATR 492/692. Advanced Techniques of Environmental Analysis.** 3 cr. Theory and application of instrumental methods used in monitoring environmental samples; laboratory quality control, sample preparation, data handling; gas and liquid chromatography, flame and flameless atomic absorption, liquid scintillation counting, autoanalyzer use. One hr lec, four hrs lab per wk. Prereq: Chemistry 248; Water 480 or Soils 364. (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 management tools. Prereq: Forestry 120, Water 180, Soils 260; or cons instr. (II)

**WATR 494/694. Aquatic Toxicology.** 3 cr. Concepts and methods for aquatic toxicology testing and research, including examples of typical

data and their interpretation. Two hrs lec, three hrs lab per wk. Prereq: Biology 305; Chemistry 220; Water 480, 481, and cons instr. (II)

**WATR 495/695. Application of Computer Modeling to Hydrogeology.** 3 cr. Introduction to existing computer models and modeling techniques practiced in hydrogeology. Emphasis on application of modeling options to fit realistic problems of geologic variability; surface-groundwater interaction, contaminant transport, groundwater management, and predictions. Prereq: Water 489 or Geology 489.

**WATR 499. Special Work.** 1-3 cr. Upperclass water resources students may arrange for independent study with consent of the associate dean. Credit will be based on the scope of the project. (I, II)

**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 con 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 management alternatives; apply hydrologic analysis to ecological problems. Two hrs lec, two hrs lab per wk. Prereq: 389 or 489 or cons instr. (On demand)

## Wildlife

Lyle Nauman, Coordinator  
Room 308A, Natural Resources Building  
Phone: (715) 346-4109

Faculty: E. Anderson, R. K. Anderson, Beattie, Hardin, Nauman, Payne, Rosenfield, Trainer.

## Wildlife Major

1. Major study and approved electives to total 130 credits in addition to required physical education (total: 134 credits).
2. College of Natural Resources courses, 25 credits: Forestry 120; Natural Resources 170, 490; Soils 260; Water 180; Wildlife 140, 350, 353, 355, 451.
3. Collateral courses, 64-69 credits:
  - a. Biology 130, 160, 210, 281, 342, 370; and two courses from Biology 360, 374, 376, 377, 378, Water 387.
  - b. Chemistry 105 and 106 or 115 and 116; and 220 or Physics 201 or 202.
  - c. Mathematics 101 and 111, and 355 or Forestry 321; one credit of Computer Information Systems 102.
  - d. Economics 210 or 204 or Natural Resources 372.
  - e. Three credits from Biology 490, Communication 211, 217, 221, 230, 252, 321,

- 322, 330, 361, 365, 394; English 250, 254, 354; Natural Resources 300, 320, 368.
- f. Five credits from Natural Resources 371, 393, 473, 474, 480; Forestry 335; Political Science 250, 304, 308, 354.
4. Summer Camp courses, 6 credits: Forestry 319, 320, Wildlife 340, Soils 359, 360, Water 380, or 8 credits of Natural Resources 475.
5. To be accepted and retained as a major, and to be approved for graduation, you must have a minimum grade point average of 2.25 in all courses taken within the wildlife major, including collateral courses, regardless of a declaration of academic bankruptcy. The dean of the College of Natural Resources may allow exceptions on a conditional basis.

### Wildlife Minor

Consists of 21-24 credits:

1. Wildlife 140, 350, 353, 451.
2. Biology 372; or two courses selected from Biology 374, 376, 377, 378.
3. The remaining credits selected from Wildlife 355, 454; Forestry 332; Water 481; Natural Resources 320, 393, 440, 473, 474; Soils 461.

### Courses in Wildlife

**WLDL 041. Wildlife Forum.** 0 cr. Same as 141, except for no credit.

**WLDL 140. Introduction to Wildlife Ecology.** 3 cr. Wildlife resources of the United States; the importance of wildlife to our past and present economic and cultural life; selected problems in wildlife conservation. (I, II)

**WLDL 141. Wildlife Forum.** 2 cr. Environmental issues related to the maintenance of wildlife populations with emphasis on the effects of land and water use upon animals. Will not fulfill the Wildlife 140 requirement. (On demand)

**WLDL 305/505. Selected Topics in Wildlife Management.** 1 cr. Selected concepts, practices, principles, and issues in wildlife management. May be repeated under different subtitles.

**WLDL 320. Wildlife and Society: Contemporary Issues.** 1-3 cr. Wildlife values, needs, and population dynamics relative to past and present cultural and economic quality of life; use of wildlife as a barometer of environmental health; impacts of pesticides and other pollutants; relation to agriculture, logging, grazing, disease, hunting and trapping, law enforcement and biopolitics. Not available for credit for students who complete Wildlife 140. (II) GDR:TCI BA BS

**WLDL 321. Principles of Captive Wildlife Management.** 3 cr. Role of captive wildlife management in conservation, research, economics, recreation, and education; impact of confinement on behavior, nutrition and health; legislation that affects the capture, transport, and housing of wild animals. Prereq: Biology 160 or cons instr.

**WLDL 322. Techniques of Captive Wildlife Management.** 3 cr. Design and administration of facilities; techniques of restraining and handling captive wildlife; sanitation and common diseases, parasites and other problems associated with confining wild animals. Prereq: 321 or cons instr.

**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 management. Prereq: 140. (SS)

**WLDL 350/550. Wildlife Management Techniques.** 3 cr. Techniques of managing wildlife populations; field mapping, food habitat studies, sexing and aging, game censuses, and control measures; emphasis on Wisconsin game populations. Prereq: Summer Camp or cons instr. (I, II)

**WLDL 353/553. Wildlife Population Dynamics.** 2 cr. Mathematical, ecological, physiological, and behavioral characteristics of wildlife population fluctuations. Prereq: Wildlife 140 and Biology 160. (I, II)

**WLDL 355/555. Wildlife Diseases.** 2 cr. Occurrence, importance, and ecologic impact of infectious, parasitic, and chemical diseases of wildlife. Prereq: Cons instr. (II)

**WLDL 356/556. Wildlife Disease Methods.** 1 cr. Methodology used to identify and study wildlife diseases in the field and laboratory. Three hrs lab per wk. Prereq: 355/555 or con reg; or cons instr. (On demand)

**WLDL 381/581. Internship in Wildlife.** 1-12 cr. Supervised training program in wildlife, in cooperation with private or public resource agencies. One credit for 2-4 wks (40 hrs per wk) of work. Credits and/or additional requirements determined by instructor before registration. May be repeated once for up to maximum of 12 credits. Prereq: Forestry 319, 320, Wildlife 340, Soils 359, 360, and Water 380; or Natural Resources 475; and/or cons intern director. (I, II, SS)

**WLDL 450/650. Human Dimensions of Wildlife and Fisheries Management.** 1 cr. Survey and evaluate research relating to human dimensions of wildlife and fisheries management; review of values, satisfactions, and attitudes associated with consumptive and nonconsumptive uses of wildlife and fish. (I)

**WLDL 451/651. Management of Wildlife Habitat.** 3 cr. Principles and practices of habitat management for wildlife in North America. Prereq: Summer Camp; or cons instr. (I, II)

**WLDL 454/654. Nonconsumptive Uses of Wildlife.** 2 cr. Life histories, behavior, and habitat requirements of wild animals as they relate to management for use other than harvest. Prereq: 340 or cons instr. (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: 140; Economics 210 or 204 or Natural Resources 372. (On demand)

**WLDL 493/693. Wildlife Field Seminar.** 1-2 cr. One credit: may be taken Pass-Fail. For 2 credits, complete a comprehensive report on the field experience. Prereq: Cons instr. (On demand)

**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. (I, II)

**WLDL 742. Wildlife Population Statistics.** 3 cr. Collect and analyze data from wild populations; develop ecological models. Prereq: Water 484/684 or Wildlife 451/651 or equiv; Mathematics 106, 108 or equiv and 355 or equiv; and cons instr. (On demand)

**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)



## Natural Science

(College of Letters and Science)

Steven Wright, Coordinator  
Room D-140, Science Building  
Phone: (715) 346-3715

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 natural science.

### Natural Science Major

Consists of 54 credits. Select ONE of the following options:

#### Earth Science Option:

1. Earth science minor, 24 credits:
  - a. Geography 101 and Geology 104 and 106, 10 credits.
  - b. Astronomy 205 and 206, 8 credits.
  - c. Three credits from each of the two following groups: (1) Geography 352, 353, 354; (2) Geology 200, 330, 370.
2. Biology, 10-14 credits including Biology 130 and 160.
3. Chemistry, 8-14 credits including Chemistry 105 and 106, or 115 and 116.
4. Physics, 10-14 credits including Physics 103 and 104, 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: 4 credits from Mathematics 102, 106, 108, 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 103 and 104; 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: Mathematics 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 the 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 of which are to be selected from each of the following areas:

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, 103, 104, 150, 250.

## Nursing

(College of Professional Studies)  
in cooperation with UW-Eau Claire

Susan Raab, Coordinator  
Room D-127, Science Building  
Phone: (715) 346-2646

Through an agreement with St. Joseph's Hospital, Marshfield, UW-Eau Claire, UW-Stevens Point, and the UW Center campuses, you can now earn a bachelor of science in nursing degree from UW-Eau Claire while doing most of your course work at UW-Stevens Point and St. Joseph's Hospital in Marshfield.

When you enroll as freshmen and sophomores at UW-Stevens Point in the UW-Eau Claire consortium nursing program, you are enrolling concurrently at St. Joseph's Hospital in the nursing curriculum. The nursing courses you take through St. Joseph's Hospital are considered residence credit at UW-Stevens Point during the terms of concurrent enrollment.

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.
  - Mathematics 355.
  - Psychology 110, 260.
  - Sociology 101.
  - Economics or Political Science, 3 credits.
  - Humanities, 12 credits in at least three disciplines.
  - Physical Education/Aerobic Activity, 2 credits.
2. Major support courses: Biology 160, 285, 286, 333; Chemistry 105, 106, 220, 260; Medical Technology 105, 295.
3. Nursing courses: 52 credits are offered through St. Joseph's Hospital via SEEN (Statewide Extension Education Network), through utilization of on-site instructors, and other educational technologies. Eight credits of Nursing 225 (Practice Dimensions of Nursing) must be completed during a summer session at UW-Eau Claire.

For more complete information about admission to the UW-Eau Claire professional nursing program, please contact the nursing coordinator in the Medical Technology Office.

### NUTRITION

See *Human Development and Nutritional Sciences*.

### 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

Faculty: Abubakr, Biasca, Graham, Holt, Misovich, Ring.

**Paper Science Major**

Consists of major, collateral, and university general degree requirements, totaling 140 credits (plus physical education):

1. Paper science courses, 48 credits: 210, 215, 314, 320, 326, 350, 355, 365, 430, 440, 460, 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, 335, 338. (These courses satisfy the requirements for a minor in chemistry.)
4. Collateral courses: Computer Information Systems 112; Economics 210; Mathematics 120, 121, 222; Physics 150, 250; Water 481.

A minimum grade point average of 2.75 is a prerequisite for acceptance as a major at the start of your junior year and is a prerequisite for any paper science course numbered 300 and above.

Grades of D+ or lower cannot be accepted as satisfying prerequisites for any paper science course. A maximum of one grade of D+ or below in required paper science courses and collateral requirements numbered 300 or above may be applied to the major.

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. Two hrs lec, one hr disc per wk.

**PAPR 105. Freshman Forum.** 1 cr. 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. One hr lec, four 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); Mathematics 106 and 108; Computer Information Systems 112; 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 311. Electrical Engineering Concepts.** 1 cr. Electro-mechanical energy conversion systems: alternating and direct current machinery; application of automatic sequences relay logic to pulp and papermaking process systems. Prereq: Physics 250, or cons instr.

**PAPR 312. Principles of Corrosion.** 2 cr. Basic mechanism and causes of corrosion; electrochemistry; metallic oxidation; protection mechanisms and techniques; anodic and cathodic protection coatings; applications to pulp and paper mill systems. Prereq: Chemistry 335, or cons instr.

**PAPR 313. Mechanics of Deformable Media.** 2 cr. Principles of stress, strain, and rate of strain; bending, shearing, and compound stresses in beams; elastic, plastic deformations, creep; mechanics of fibers, paper, and paperboard. Prereq: Physics 150 or cons instr.

**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. Two hrs lec, three hrs lab/disc per wk. Prereq: 215; Mathematics 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. Two hrs lec, three hrs lab per wk. Prereq: 320 or cons instr.

**PAPR 350. Wood and Pulping Technology.** 4 cr. Cellulose, hemicelluloses, lignin, wood extracts, wood and fiber microstructure; commercial pulping and bleaching processes. Three hrs lec, three hrs lab/disc per wk; field trips to commercial operations. Prereq: 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. Three hrs lec, three hrs lab/disc per wk. Does not count toward the major or minor in physics. Prereq: 350 or cons instr.

**PAPR 365. Colloid and Surface Phenomena.** 3 cr. Principles of colloid and surface chemistry; electrokinetic and base exchange phenomena; thermodynamics of interfacial systems; adsorption; applications to coatings, flocculation, fillers, and wet end additives. Prereq: Chemistry 335.

**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 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. Two hrs lec, three 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. Three hrs lec, two hrs lab/disc per wk. Prereq: 326 and Chemistry 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 460. Process Dynamics and Control.** 4 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. Three hrs lec, three hrs lab/disc per wk. Prereq: Mathematics 222.

**PAPR 475. Transport Operations in Fibrous Systems.** 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; economic factors; engineering calculations performed on full scale production paper machine. Two hrs lec, three hrs lab/disc per wk. Prereq: Cons instr.

**PAPR 485. Systems Engineering and Simulation.** 2 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. One hr lec, three hrs lab/disc per wk. Prereq: Cons instr.

**PAPR 486. Engineering Design Project.** 3 cr. Engineering economics; interest and economic equivalence; methods of comparing project and investment alternatives. Individual student project includes project definition, equipment selection and sizing, capital and operating cost estimation, economic evaluation and justification; oral and written presentation of project. Two hrs lec, one hr disc per wk. Prereq: Cons instr.

**PAPR 490. Seminar I.** 1 cr. Orientation to technical and professional aspects of the paper industry; effective use of literature, and technical communication techniques; presentation of information by students, staff, and guest lecturers. Prereq: Sr st in paper science, or cons instr.

**PAPR 495. Seminar II.** 1 cr. Use of the literature, procedures in designing a research project, and the presentation of information by students, staff, and guest lecturers. Prereq: Sr st or cons instr.

## Peace Studies

(College of Letters and Science)

History Department

Room 422/424, College of Professional Studies Building  
Phone: (715) 346-2334

**Faculty:** Harris, Lokken, B. Singh, W. Skelton.

**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 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. GDR:TCI BA BS

**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 will be based on the 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)

Joseph Schuler, Chair

Room 489, Collins Classroom Center

Phone: (715) 346-3340

**Faculty:** G. Alexander, M. Alexander, Bailiff, Billings, Callicott, Fadner, Feldman, Herman, Overholt, J. Schuler, Vollrath, Zawadsky.

### Philosophy Major

Consists of a minimum of 27 credits including:

1. History: Philosophy 217, 218.
2. Logic: Philosophy 322.
3. Value theory: One course from Philosophy 220, 303, 305.
4. Systematic: One course from Philosophy 306, 310, 312, 318.
5. Seminar: Philosophy 490.

### Philosophy Major with Concentration in Religious Studies

Consists of 33 credits including:

1. History: Philosophy 217.
2. Logic: Philosophy 121 or 322.
3. Value theory: One course from Philosophy 220, 303, 305, Religious Studies 310.
4. Systematic: One course from Philosophy 306, 310, 312, 318, 320.
5. The religious studies concentration:
  - a. Historical background: Religious Studies 303 or 304; and 100 or Philosophy 105.
  - b. Phenomenology of religion: One course from Religious Studies 102, 105, 316, 330.
  - c. Western religious thought: Religious Studies 301, 302, 311, or 321.
  - d. The remaining 9 credits are to be selected, with the advice of the departmental adviser, from religious studies and the following collateral courses: Anthropology 320; History 316; Philosophy 105, 320, 335, 337, 338; Sociology 431.

### Philosophy Minor

Consists of a minimum of 18 credits including Philosophy 217 and 218, and one course to be selected from Philosophy 121, 220, 303, 305, 322.

### 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.

#### Notes:

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 philosophy courses. Philosophy 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.

### 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 102. Philosophical Classics.** 3 cr. Read and discuss philosophical texts that are examples of sustained philosophical argument and mature defense of philosophical proposals. Prereq: Three credits of philosophy or cons instr.

**PHIL 104. 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. Improve critical reading and thinking skills necessary for enrollment in designated sections of 100-level philosophy courses. Pass-fail.

**PHIL 200. Intellectual Revolutions of the Modern World: Marx, Darwin, and Freud.** 3 cr. Examination of documentary sources of three intellectual movements which have shaped the culture of the 20th century. Prereq: So st.

**PHIL 217. History of Ancient Greek Philosophy.** 3 cr. The pre-Socratics, Plato, Aristotle, and post-Aristotelian philosophers. Prereq: So st. GDR:HU3

**PHIL 218. History of Early Modern Philosophy.** 3 cr. Major philosophic movements and figures from the Renaissance through Immanuel Kant. Prereq: So st. GDR:HU3

**PHIL 220. Political and Social Philosophy.** 3 cr. Systematic analysis of fundamental concepts of political and social theory including the state, law and rights, political obligation, authority and power, justice. Prereq: So st. GDR:HU3

**PHIL 300. Introduction to Philosophical Thinking.** 3 cr. Critical analysis of ideas selected from writings of such philosophers as Aristotle, Descartes, Hume, Sartre, and Russell. May not earn credit in both 100 and 300. Prereq: Jr or sr standing. GDR:HU3

**PHIL 301. Philosophy in a Literary Mode.** 3 cr. Interpret and discuss selected popular works with philosophical interest. Subtitle will designate selection. 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 304. Ethics in Business and Economics.** 3 cr. Apply ethical concepts from selected readings and case studies to business management, economic policy, and the organization of work. 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 308. Nineteenth Century Philosophical Thought.** 3 cr. Philosophy and related ideas of the century of ideology and progress including the influence of Hegel, Darwin, Marx, and Mill on post-19th century philosophy. GDR:HU3

**PHIL 309. Contemporary Philosophy.** 3 cr. The philosophic trends of the 20th century including Existentialism, Logical Positivism, Ordinary Language Philosophy, and Phenomenology. 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

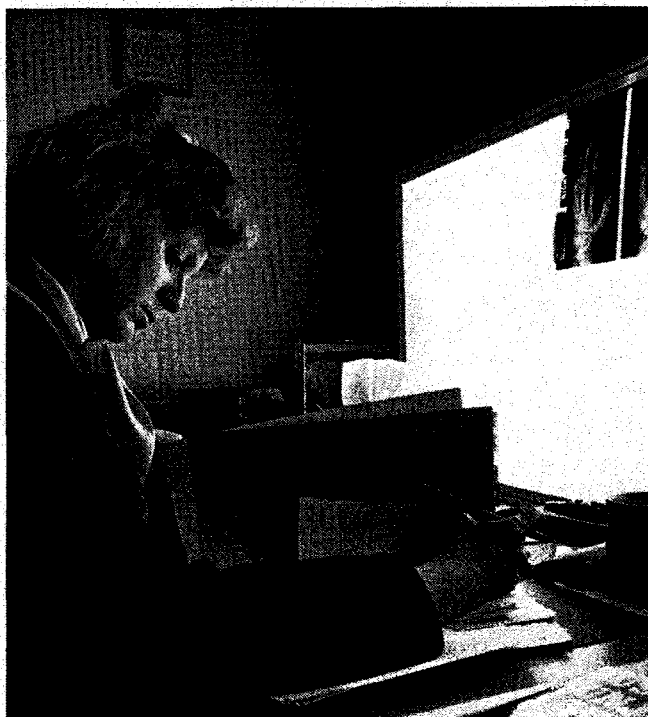
**PHIL 322. Symbolic Logic.** 3 cr. Introduction to symbolic logic including truth functions, general quantification theory, scope and limits of formal logic.

**PHIL 327. Genetic Engineering: Implications and Ethics.** 3 cr. Basic scientific principles of recombinant DNA research; applications in medicine and food production; ethical assessment. Also offered as Biology 327. GDR:TCI BA BS

**PHIL 329. Philosophy and Popular Culture.** 3 cr. Philosophical exploration of the meaning of contemporary life as presented in films, music, video, and short stories. GDR:HU3

**PHIL 330. Existential Philosophy.** 3 cr. Phenomenology and the philosophy of human existence from Kierkegaard to Sartre. GDR:HU3

**PHIL 331/531(NW). History of Pre-Revolutionary Russian Philosophy.** 3 cr. The development of Russian religious and philosophic thought from its Byzantine origins to the end of the 19th century. GDR:HU3



**PHIL 332/532. Development of Soviet Ideology.** 3 cr. Examination of sources and evolution of historical and dialectical materialism—the philosophy of the Soviet Union. GDR:HU3

**PHIL 335(NW). Basic Texts of Hinduism and Buddhism.** 3 cr. A systematic examination of classical Indian philosophic texts such as the Upanishads, the Yoga Sutras, the Bhagavad Gita, or the Prajnaparamita literature of Buddhism. Prereq: 105 or cons instr. GDR:HU3

**PHIL 337(NW). Indian Yoga.** 3 cr. The history, theory, and practice of Indian yoga from the Upanishads to the modern period. Prereq: 105; Religious Studies 100; or cons instr. GDR:HU3

**PHIL 338(NW). Chinese Philosophy.** 3 cr. Origins and development of the major schools of Chinese thought, concentrating on texts from various periods. GDR:HU3

**PHIL 340. American Philosophy.** 3 cr. Philosophical trends and thinkers in American religious, political, and scientific thought from the colonial period to the present century. GDR:HU3

**PHIL 380. Environmental Ethics.** 3 cr. Philosophical, religious, and scientific concepts and values which have structured human attitudes toward the natural environment; alternative concepts and values will be explored. GDR:HU3

**PHIL 381(NW). American Indian Environmental Philosophies.** 3 cr. Traditional and contemporary American Indian thought in regard to man, the natural world, and their interrelationship with present Wisconsin tribes. GDR:HU3

**PHIL 385/585. Workshop in Environmental Aesthetics.** 2 or 3 cr. An exploration of concepts and criteria for the appreciation and articulation of natural beauty. Prereq: 380 or cons instr.

**PHIL 395. Philosophical Problems.** 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 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 Promotion/Physical Education*.

## PHYSICAL EDUCATION FOR THE EXCEPTIONAL INDIVIDUAL

See *Health Promotion/Physical Education*.

## PHYSICAL SCIENCE

See *Natural Science*.

## Physics

(College of Letters and Science)

Francis L. Schmitz, Chair of Physics and Astronomy  
Room B-109, Science Building  
Phone: (715) 346-2139

**Faculty:** Beeken, Jagdish Chander, Kulas, Lokken, Randy Olson, Razdan, Schmitz, Tamres, Taylor.

Courses in *astronomy* are listed under that title earlier in this catalog.

The *microelectronics and microcomputer systems minor* is described under that title earlier in this catalog.

### Physics Major

Consists of 36 credits including:

1. Physics 150, 250, 305, 307, 308, 310, 400, 410, 415, and one credit of 388 or 499.
2. Select the remaining credits from physics courses numbered 300 and above (except 333).
3. Collateral courses include Chemistry 115 and 116 (or 105 and 106); Mathematics 120, 121, 222, 320.

### Physics Major for Teacher Certification

Consists of 36 credits including:

1. Physics 150, 250, 305, 307, 310, 400, and 410.
2. Select the remaining credits from Astronomy 311 or from physics courses numbered 300 and above.
3. Collateral requirements include Mathematics 120, 121, 222.
4. The Wisconsin Department of Public Instruction requires an additional 8 credits of science in another discipline for teacher certification.

To be accepted in the junior year and retained as a physics major, and to be approved for graduation, you must have a minimum grade point average of 2.00 (2.75 to student teach) in all courses in the major, regardless of a declaration of academic bankruptcy. The department chair may grant exceptions.

No more than one grade below C- in physics courses numbered 300 or above may be applied toward the major. If you do not meet these standards, you may petition the department for consideration.

### Physics Minor

Consists of 24 credits:

1. Physics 150, 250, 305 or 307, 400, and other physics courses numbered 300 and above. At least 1 elective must include a laboratory.

2. Collateral requirements include 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 301, 305, 307 will be offered first semester only in 1991-92 and 1993-94.
3. Physics 303, 390, 400 will be offered first semester only in 1992-93 and 1994-95.
4. Physics 302, 308, 310, 315 will be offered second semester only in 1991-92 and 1993-94.
5. Physics 205, 391, 410, 415 will be offered second semester only in 1992-93 and 1994-95.
6. You may receive credit for only one of these: Physics 100, 101, 103, 150, 201.
7. You may receive credit for only one of these: Physics 100, 101, 104, 202, 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 hold:

If you received credit for:	you cannot receive credit for
Physics 100	Physics 101
Physics 101	Physics 100
Physics 103	Physics 100, 101, 201
Physics 104	Physics 100, 101, 201, 202
Physics 150	Physics 100, 101, 103, 201
Physics 250	Physics 100, 101, 104, 202

**Courses in Physics**

**PHYS 100. Energy in Today's World.** 3 cr. Basic energy concepts; energy sources and processes; projected depletion of present resources; the role of conservation, research, and development; alternatives and prospects for the future. Two hrs lec, two 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, home economics, and physical education. Two hrs lec, one hr disc, four hrs lab per wk. GDR:NS

**PHYS 103. General Physics.** 5 cr. Mechanics, heat, and sound. Recommended for students in general education, biology, and premedical and related fields. Three hrs lec, one hr disc, three hrs lab per wk. Prereq: One yr of high school algebra and one yr of high school geometry, or equiv. GDR:NS

**PHYS 104. General Physics.** 5 cr. Light, electricity and magnetism, and topics in modern physics. Recommended for students in general education, biology, and premedical and related fields. Three hrs lec,

one hr disc, three hrs lab per wk. Prereq: 103, or equiv, or cons instr. GDR:NS

**PHYS 106. General Physics: Basic Principles.** 1 cr. Fundamental principles of physics for students in medical technology with emphasis on problem-solving techniques. One hr per wk. Prereq: con reg in 104.

**PHYS 150. General Physics I.** 5 cr. Mechanics, heat, and sound. Three hrs lec, one hr disc, three hrs lab per wk. Prereq: Mathematics 120, or cons instr. GDR:NS

**PHYS 201. Applied Principles of Physics I.** 4 cr. Selected topics in mechanics, heat, and sound. Two hrs lec, one hr disc, three hrs lab per wk. Prereq: Mathematics 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. Two hrs lec, three hrs lab per wk. Prereq: 201 or equiv, or cons instr. For natural resources students.

**PHYS 205. 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. Two hrs lec, two hrs lab per wk. Prereq: Mathematics 106 or equiv, or cons instr.

**PHYS 220. Statics.** 3 cr. Principles of mechanics, force systems, equilibrium, structures, distributed forces, moments of inertia of area, friction. For students in the pre-engineering curriculum. Prereq: 150, Mathematics 121, or cons instr.

**PHYS 221. Dynamics.** 3 cr. Kinematics, force-mass-acceleration relationships, work and energy, impulse and momentum, moments of inertia of mass. For students in the pre-engineering curriculum. Prereq: 220, Mathematics 222, or cons instr.

**PHYS 250. General Physics II.** 5 cr. Electricity, magnetism, optics, and modern physics. Three hrs lec, one hr disc, three hrs lab per wk. Prereq: 150, Mathematics 121, or cons instr. GDR:NS

**PHYS 301. Electronics.** 4 cr. Theory, application and practice of solid state devices; circuits and systems using these devices. Three hrs lec, three hrs lab per wk. Purchase of laboratory manual is required. Prereq: 205 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. Two hrs lec, two hrs lab per wk. Prereq: 205 or equiv, or cons instr.

**PHYS 303. Advanced Optics.** 3 cr. Principles of physical and geometrical optics. Prereq: 250, Mathematics 222.

**PHYS 305. Advanced Mechanics.** 3 cr. Vectors, rectilinear and curvilinear motions, including simple harmonic and damped vibrations; rotation of rigid bodies. Prereq: 250, Mathematics 222.

**PHYS 307. Electricity and Magnetism I.** 3 cr. Introduction to theory of electrostatics; potentials and fields; dielectrics. Prereq: 250, Mathematics 222.

**PHYS 308. Electricity and Magnetism II.** 3 cr. Magnetostatics; magnetic properties of materials; Maxwell's equations; electromagnetic radiation. Prereq: 307.

**PHYS 310. Intermediate Laboratory.** 2 cr. Experiments and laboratory practice in electricity, magnetism, and optics. One hr lec, three hrs lab per wk. Prereq: 307 or con reg, or cons instr.

**PHYS 315. Thermodynamics.** 3 cr. Principal concepts of thermodynamics and elementary kinetic theory. Prereq: 250, Mathematics 222.

**PHYS 333. Physical Approach to Environmental Science.** 3 cr. A study of the environment emphasizing physical principles; energy and the environment, impact of technology, mechanics of the environment; application to environmental problems. Prereq: Completion of the general requirements in natural science; Mathematics 100 or equiv, or cons instr.

**PHYS 380. Selected Topics.** 1-3 cr. 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 maximum of 6 credits. Prereq: Recommendation by a staff member and approval of the research supervisor.

**PHYS 390. Digital Systems and Microprocessors I.** 4 cr. Theory and operation of digital systems and microcomputer systems; ROMs, RAMs, ALUs, I-O devices, CPUs; applications and interfacing of microcomputers. Three hrs lec, three hrs lab per wk. Prereq: 301, 302, and Computer Information Systems 230, or cons instr.

**PHYS 391. Digital Systems and Microprocessors II.** 3 cr. A continuation of 390 to include the 16-bit processors, serial interfacing, standard bus systems, and data-handling systems. Two hrs lec, 3 hrs lab per wk. Prereq: 390 or cons instr.

**PHYS 400. Atomic and Nuclear Physics.** 3 cr. Special relativity, Bohr atom, atomic spectra, radioactivity, nuclear reactions and scattering. Prereq: 250.

**PHYS 410. Advanced Laboratory.** 2 cr. Experiments and laboratory practice in atomic and nuclear physics. One hr lec, three hrs lab per wk. Prereq: 250.

**PHYS 415. Introduction to Quantum Mechanics.** 3 cr. Quantum theory; wave packets, Schrodinger equation, hydrogen atom, harmonic oscillator, square wells, spin matrices, and operators. Prereq: 305 or 400.

**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 will be based on the 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 of man's 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: Enough maturity to work independently; the course must supplement current graduate work.

**PHYS 797. Workshop in Energy Concepts.** 3 cr. Provide background materials in energy concepts and assist teachers in developing curricula in this area. Two hrs lec, one hr lab per wk.

## POLISH

See *Foreign Languages*.

## Political Science

College of Letters and Science)

Dennis Riley, Chair

Room 482, Collins Classroom Center

Phone: (715) 346-2688

Faculty: Canfield, Cates, Christofferson, Li, E. Miller, Morser, Oster, D. Riley, B. Singh.

### Political Science Major

Consists of at least 36 credits including:

1. Political Science 101 and 182.
2. At least 12 credits of 200-level courses.
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:** Political Science 212, 242, 308, 310, 313, 315(MNS), 316, 320, 341, 411, 412.

- b. **Public policy and administration:** Political Science 202(MNS), 250, 304, 306, 314, 354, 356, 358, 397, 450.
- c. **Political theory:** Political Science 270, 391, 392, 393, 394, 395, 396, 497.
- d. **Comparative politics:** Political Science 206, 361, 364, 370, 374, 376.
- e. **International politics:** Political Science 280, 381, 382, 383, 384, 385.

To be admitted and retained as a major, and to be accepted for graduation, you must have a grade point average of 2.50 or higher (2.75 to student teach) in ALL courses taken in the major.

You should begin your study of political science by taking Political Science 101 and 182. Survey courses that are 200-level should be taken before the 300- and 400-level courses in the various fields.

### Recommended Emphases

**Graduate School Preparation:** 397, 497; Computer Information Systems 101/102; English 250; Mathematics 355.

**Prelaw:** Political Science 212, 313, 320, 395, 411, 412, 450; Business 210; English 250; Philosophy 315.

**Public Policy and Administration:** Political Science 202(MNS), 250, 354, 356, 358, 397; Computer Information Systems 101/102; Mathematics 355.

**Teacher Certification:** Twelve 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 Political Science 497 which is required for certification by the Department of Public Instruction. The DPI also requires all elementary and secondary education majors to take Political Science 201. It does NOT count toward the political science major or minor, but political science teacher certification candidates may satisfy the requirement by completing Political Sci 101 and 242.

### Political Science Minor

Consists of at least 21 credits including:

1. Political Science 101 and 182.
2. At least 6 credits of 200-level political science courses.
3. At least 9 credits in courses numbered 300 and above.
4. At least 3 credits in four of the five fields listed above with the major.

### Courses in Political Science

**POLI 101. American Politics.** 3 cr. Survey of American politics and government. GDR:SS1

**POLI 182. Global Politics.** 3 cr. Political implications of growing interdependence among states; current problems in politics of the international economic order, terrorism, resource distribution, population growth, and national security.

**POLI 190. Contemporary Political Issues.** 1 cr. Critical examination of social and political implications of a major, contemporary issue. Two hrs per wk. Subtitle will designate area. May be taken twice with different subtitles. Pass-Fail only.

**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 political science 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 206(NW). Comparative Politics.** 3 cr. Theories of comparative government; study of political systems of selected Western, non-Western, and Communist countries. Prereq: So st. 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 the 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 280. International Relations.** 3 cr. Analysis of general principles and theories of international politics and organizations; emphasis on security, power, prestige, and peace. Prereq: So st. GDR:SS1

**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:TCI BA BS

**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:TCI BA BS

**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 twentieth 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.

**POLI 316/516. Parties and Elections.** 3 cr. Description and critical examination of political parties and voting behavior in the United States.

**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. Prereq: 242 or cons instr.

**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 364/564(NW). Soviet Politics.** 3 cr. Russian national and Marxist influences on the development of the Soviet state and Soviet concept of democracy, the role of the Communist Party and the formal, institutional machinery of government; a critical analysis of the Leninist, Stalinist, and post-Stalinist periods. GDR:SS1

**POLI 370(NW). Asian Politics.** 3 cr. Political institutions, leadership, socioeconomic problems, and international relations of selected Asian countries. GDR:SS1

**POLI 372. African Politics.** 3 cr. African governments and politics; interstate relations in Africa; Africa in 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. Pacific Rim Political Economy.** 3 cr. Analysis of the interstate relationships of the major countries bordering the Pacific Ocean, including the U.S., Canada, Japan, China, and Korea; primary emphasis on political implications such as trade disputes, investment penetration, and industrial protectionism.

**POLI 382. United Nations at Work.** 1-3 cr. Studies in historical roots, philosophy, charter, and peacekeeping role of the United Nations; optional Model UN participation, special fee required with 3 cr. or with Module 3. Module 1: UN Charter and Human Rights, 1 cr. Module 2: Global Issues, 1 cr. Module 3: Model UN, 1 cr.

**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. Soviet Foreign Policy.** 3 cr. Analysis of the Russian national and Marxist bases of the foreign policy of the Soviet Union.

**POLI 385. International Organizations.** 3 cr. Analysis of the role, structure, and functions of contemporary international organizations.

**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: 102 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 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. Topics will be announced each semester.

**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 will be based on the 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 be repeated 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 will be based on the scope of the project.

## PROFESSIONAL EDUCATION PROGRAM

See *Education*.

## Psychology

(College of Letters and Science)

John D. Holmes, Chair  
Room D-240, Science Building  
Phone: (715) 346-2883

**Faculty:** Bayne, Elsenrath, M. Fang, Hekmat, Douglas Henderson, John D. Holmes, S. Holmes, Johnston, Kortenkamp, Leafgren, Lerand, Lubitz, Mosier, Plonsky, Rowe, Sudevan, Wells.

### Psychology Major

Consists of 34 credits:

1. Psychology 110, 300, 301, 375, 389.
2. At least one course from each of the following groupings:
  - a. Psychology 250, 260, 320.
  - b. Psychology 325, 330, 331, 335.
  - c. Psychology 400, 452.
3. Nine additional elective psychology credits which may include courses from a, b, and c above, not used to satisfy the particular grouping requirement.

### Psychology Major with Emphasis in Human Services

Consists of at least 43 credits, including:

1. The requirements for the major as defined above.

2. Psychology 350, 351, 401, 402, 480, and 482. These courses will fulfill the required 9 elective credits in the psychology major (3 above).

### Psychology Minor

Consists of 18 credits in psychology, including Psychology 110.

### Psychology Minor for Teacher Certification

Consists of 25 credits:

1. Psychology 110, 300, 301, 375, 389, 452.
2. At least one course from each of the following groupings:
  - a. Psychology 250, 260, 320.
  - b. Psychology 325, 330, 331, 335.

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 UW-SP.

**NOTE:** 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, 3.00 for teaching internship.

### Courses in Psychology

**PSYC 100. Personal Effectiveness, Study Skills, and Adjustment to College.** 3 cr. Make the adjustment to college by assessing and developing your learning skills and motivation. Two hrs lec, one hr lab per wk.

**PSYC 101. Study Skills.** 1 cr. Develop skills in textbook comprehension, lecture notetaking, memory, listening, preparation for examinations, time management, and systematic methods of study. One hr per wk in class; additional half-hour appointments to be arranged. Does not count toward the major or minor in psychology, nor toward the social science general degree requirement.

**PSYC 102. Career Exploration and Decision-Making.** 1 cr. Systematic process for making decisions about your career; assess your abilities, interests and values; evaluate career alternatives; explore academic majors.

**PSYC 110. General Psychology.** 3 cr. The study of experience and behavior. GDR:SS1

**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:PE/HE

**PSYC 260. Introduction to Development Psychology.** 3 cr. Survey of growth and development; physical, perceptual cognitive, linguistic, emotional, and social development; emphasis on human development from conception to 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. Extrasensory perception (telepathy, clairvoyance, precognition, retrocognition); psychokinesis ("mind over matter"); psychic healing; out-of-body experiences; death and near-death experiences; trance mediums; reincarnation. Prereq: So st.

**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:PE/HE

**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. Three hrs lec, two 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 305. Computers in Psychology.** 3 cr. Computing skills specific to psychology: file management, word processing, statistics, graphics, and BASIC programming. Prereq: 110 and 300. CIS 101/102 recommended.

**PSYC 315. The Psychology of Adolescence.** 3 cr. Behavior of adolescents; how physiology and culture determine personality; adjustment problems youth encounter in society. Prereq: 110.

**PSYC 320. Social Psychology.** 3 cr. Individual behavior as a function of social environment; how learning, cognition, motivation, 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 325. Neuropsychology.** 3 cr. Neurological basis of behavior; principles of central nervous system activity that underlie perception, motivation, learning, and cognition. Prereq: 110.

**PSYC 330. Perception.** 3 cr. Fundamental concepts of perception, with emphasis on vision; experimental findings, theoretical interpretations, and demonstration of ways man perceives his environment. Prereq: 110. GDR:SS1

**PSCH 331. Basic Cognitive Processes.** 3 cr. Basic stages of human information processing including sensory memory, selective and divided attention, pattern recognition, perception as construction, filter theory, capacity theory, working memory, and models of memory. How deficits in these areas help in our understanding of normal functioning. Prereq: 110; 330 recommended.

**PSCH 332. Complex Cognitive Processes.** 3 cr. Complex information processing memory, language, and thought. Network and connectionist models of memory, semantic memory, speech production and comprehension, semantic and syntactic theories, language acquisition, reasoning, concept attainment, problem-solving, and artificial intelligence. Prereq: 110; 331 recommended.

**PSYC 335. Motivation and Emotion.** 3 cr. The nature and development of emotion, attitude, motive, and the role of these processes in thinking and behavior. Prereq: 110.

**PSYC 340. Comparative Psychology.** 3 cr. Similarities and differences in animal behavior among phyla, and how they relate to human behavior. Phylogenetic comparison of instincts, learning, sensation, and functional organization of the nervous system. Prereq: 110.

**PSYC 345. Industrial 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: Two courses in psychology or cons instr.

**PSYC 351. Abnormal Psychology.** 3 cr. Behavior disorders, including psychoses, neuroses, character disorders, and mental deficiencies. Prereq: 250, or cons instr.

**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 361/561. Mental Retardation and Developmental Disabilities.** 3 cr. Physiological, cognitive, emotional, and social aspects of mental retardation and developmental disabilities. Prereq: 110 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.

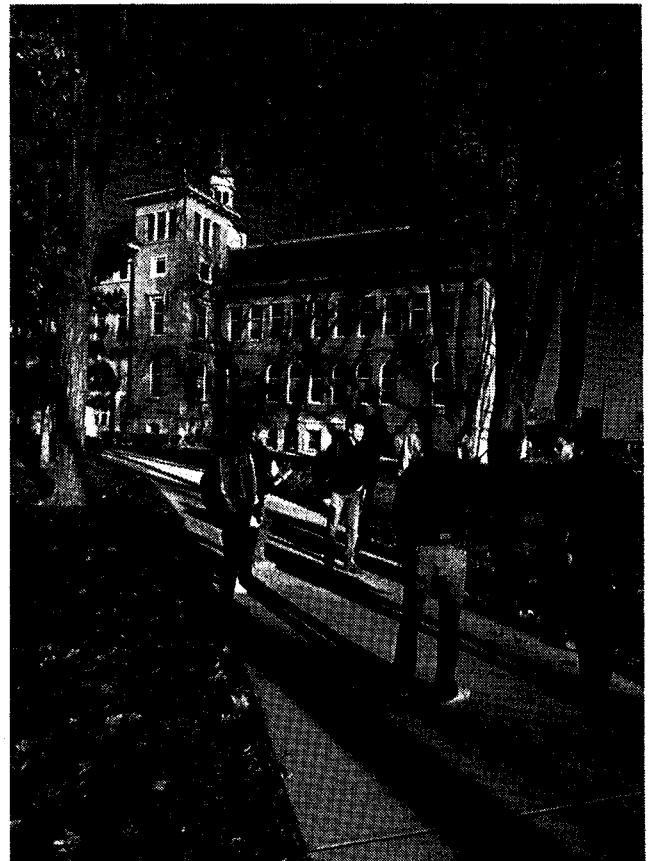
**PSYC 389. Experimental Psychology.** 3 cr. An introduction to the principles of experimental design with practice in conducting research, analyzing results, and writing research reports. Two hrs lec, two hrs lab per wk. Prereq: 300.

**PSYC 393. Genocide: Psycho-Historical Foundations.** 3 cr. Analysis of the scientific/technological foundations of political totalitarianism. GDR:TCI BA BS

**PSYC 399. Special Work.** Upperclass psychology majors and minors may arrange for independent study with cons chair. Credit will be based on the scope of the project.

**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. Two hrs lec, two 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: 250, or cons instr.



**PSYC 402/602. Practicum in Counseling and Psychotherapy.** 3 cr. Supervised field work in counseling and psychotherapy. 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 460/660. Developmental Psychology Seminar.** 3 cr. Research experiences in physiological, perceptual, cognitive, emotional, and social development; emphasis on human behavior from infancy to adulthood. Prereq: 260, 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.

**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 be repeated for credit with different subtitles. Prereq: 110 and cons instr.

**PSYC 491/691. Workshop.** 1-5 cr. Subtitle will designate area. May be repeated for credit with different subtitles.

**PSYC 796. Special Work.** Graduate students may arrange for independent study with cons instr, chair, and chair of student's major department. Credit will be based on the scope of the project.

## Public Administration and Policy Analysis

(College of Letters and Science)

Dennis D. Riley, Coordinator  
Room 482, Collins Classroom Center  
Phone: (715) 346-2688

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: Political Science 101, 242.
2. **Principles**, 9 credits: Political Science 202, 250; Economics 210.
3. **Functional areas**, 9 credits from: Political Science 351 or Sociology 359, Political Science 354, 356 or Economics 311, Political Science 358, 450.
4. **Tools of analysis**, 7 credits: Political Science 397 and 4 credits of statistics from Economics 310 or Mathematics 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**: Economics 315, 328; Sociology 260; Political Science 212, 304, 306, 308, 314, 320, 455.
- b. **Public planning**: Geography 373, 367; Natural Resources 480; Political Science 341/455; Sociology 260, 356, 357.
- c. **Human resources administration**: Business 347; Economics 345, 346; Political Science 315, 354, 455; Psychology 345, 350, 401; Sociology 270, 310, 315.
- d. **Natural resources and the environment**: Geography 340, 368; History 366; Natural Resources 370, 371, 372, 473, 480; Philosophy 380; Political Science 304, 455.
- e. **Public finance administration**: Accounting 210, 211, 313, 340; Economics 311, 328, 454; Political Science 356, 358, 455.

To be admitted and retained as a major, and to be accepted for graduation, you must have a grade point average of 2.5 (C+) or higher in ALL courses taken within the major regardless of declaration of academic bankruptcy. The department chair may allow exceptions.

### Public Administration and Policy Analysis Minor

Consists of 25 credits.

1. **Government**, 6 credits: Political Science 101, 242.
2. **Principles**, 6 credits: Political Science 202, 250.
3. **Functional areas**, 6 credits from: Political Science 351, 354, 356, 358, 450.
4. **Tools of analysis**, 7 credits: Political Science 397 and 4 credits of statistics from Economics 310 or Mathematics 355 or Psychology 300 or Sociology 351.

## PUBLIC RELATIONS AND ADVERTISING

See *Communication*.

## Religious Studies

(College of Letters and Science)

Thomas W. Overholt, Coordinator  
Room 420, Collins Classroom Center  
Phone: (715) 346-3806

**Faculty:** G. Alexander, Billings, Fadner, Overholt.

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 217.
2. **Logic**: Philosophy 121 or 322.
3. **Value theory**: One course from Philosophy 220, 303, 305, Religious Studies 310.

4. Systematic: One course from Philosophy 306, 310, 312, 318, 320.
5. The religious studies concentration:
  - a. Historical background: Religious Studies 303 or 304; and 100 or Philosophy 105.
  - b. Phenomenology of religion: One course from Religious Studies 102, 105, 316, 330.
  - c. Western religious thought: Religious Studies 301, 302, 311, or 321.
  - d. Select the remaining 9 credits, with the advice of your departmental adviser, from religious studies and the following collateral courses: Anthropology 320; History 316; Philosophy 105, 320, 335, 337, 338; Sociology 431.

### Religious Studies Minor

Consists of a minimum of 18 credits:

1. At least one course selected from each of the following three groups:
  - a. Non-Western religious traditions: Religious Studies 100, 105, 305, 316; Philosophy 105.
  - b. Western religious traditions: Religious Studies 101, 303, 304.
  - c. Religion in human life and culture: Religious Studies 102, 301, 302, 310, 311, 315, 321, 330, 331.
2. Select at least 9 additional credits, with the advice of your departmental adviser, from religious studies courses and the following collateral courses: Anthropology 320; History 316; Philosophy 105, 320, 335, 337, 338; Sociology 431.

### 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, 335, 337, 338; 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, 335, 337, 338; Sociology 431. One credit must be Religious Studies 399 focusing on conceptual, pedagogical, and legal aspects of teaching religious studies in public schools.

### 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). Introduction to 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 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 Contemporary Culture.** 3 cr. An investigation of the nature of religion focused on specific issues confronting religious groups in contemporary culture, such as pluralism, political involvement, racism, sexism, and economic justice. 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. Introduction to the New Testament.** 3 cr. Study of New Testament literature in the context of its historical and cultural background. GDR:HU3

**REL 305(NW). Prophets and Prophecy.** 3 cr. A comparative study of ancient and modern prophecy in a variety of cultures, including Israelite, American Indian, African, and East Indian. 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 315. Religion in Literature.** 3 cr. Religious themes as expressed in works by 20th century authors. 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 be repeated 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.

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

## RESOURCE MANAGEMENT

See *Natural Resources*.

## R.O.T.C. (Reserve Officers Training Corps)

See *Military Science*.

## RUSSIAN

See *Foreign Languages*.

## RUSSIAN AND EAST CENTRAL EUROPEAN STUDIES

See *International Studies*.

## 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

### Small City Analysis Minor

Consists of a minimum of 25 credits:

1. Core courses, 12 credits:
  - a. Area courses: 6 credits chosen from Geography 373, Natural Resources 480, Political Science 341, Sociology 356.
  - b. Affiliate courses: 6 credits chosen from Forestry 333; Geography 367; Natural Resources 474, 495; Political Science 242, 344; Sociology 300, 357, 358, 363.
2. Analytic skills, 9 credits:
  - a. Computer information systems: 3 credits selected from Computer Information Systems: 101/102, 110, 112, 113.
  - b. Research methods: 3 credits selected from Economics 310; Geography 276; Political Science 497; Sociology 351, 352; Psychology 300; Mathematics 355.
  - c. Policy analysis/management: 3 credits selected from Business 280; Political Science 250, 397, 454.
3. Internship/independent research: 3 credits selected from Political Science 455, 499; Sociology 499; Geography 399; Natural Resources 499. Internship or independent research must be focused on a topic related to small cities.
4. Simulation/seminar: 1 credit of a small city simulation or seminar approved by one of the coordinators.

- 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

(For teaching in 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 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 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 15 credits.

If you are a teacher certified in a broad-field social science subject other than history and then want to seek certification to teach history, you must have a minimum of 15 credits of history distributed as follows:

1. U.S. surveys, 6 credits: History 211 and 212.
2. European surveys, 6 credits from History 105, 106, 107, 108.
3. Non-Western surveys, 3 credits from History 215, 216, 219, 220, 253, 254, 337, 338.

For certification in the "broad-field" social sciences, Wisconsin statutes require instruction in conservation and cooperatives. These requirements (normally Economics 210 or 372, and Natural Resources 370) are described in the *Education* section of this catalog.

### Social Science Minor

Does NOT meet Wisconsin certification requirements for social studies teachers. Consists of 24 credits, 6 credits in each of the following social studies areas:

## Social Science

(College of Letters and Science)

William Skelton, Coordinator  
Room 410, College of Professional Studies Building  
Phone: (715) 346-4490

A social science major may be earned in either of two ways. 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, sociology and anthropology.
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.

1. **Economics.** Required: Economics 210; Elective: Economics 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: Political Science 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 206.
3. Geography 113 or 120.
4. Sociology 102.
5. At least 6 credits from Economics 210, Sociology 101, Anthropology 101, Political Science 182.

### Certification to Teach Civics (Grades 7-12)

Complete one of the following three alternatives:

1. Meet the requirements for the broad-field social science major.
2. Complete the political science minor (a minimum of 22 credits).
3. Complete a minimum of 42 credits in social science courses distributed as follows:
  - a. History: Complete the history minor (24 credits) with History 211 and 212 as part of the requirement.
  - b. Economics: 6 credits.
  - c. Political science: 6 credits.
  - d. Sociology and anthropology: 6 credits.

### Certification to Teach Social Problems (Grades 7-12)

Complete one of the following two alternatives.

1. Meet the requirements for the broad-field social science major.
2. Complete a minimum of 42 credits in social science courses distributed as follows:
  - a. History: Complete the history minor (24 credits) with History 211 and 212 as part of the requirement.
  - b. Economics: 6 credits.
  - c. Political science: 6 credits.
  - d. Sociology and anthropology: 6 credits.

## Sociology

### (College of Letters and Science)

Eugene Clark, Chair  
Room 488, Collins Classroom Center  
Phone: (715) 346-3060

**Faculty:** Bablitch, Bishop, E. Clark, Enright, Fisher, Galeski, Itzkowitz, Moffatt, G. Skelton, Smart, Throckmorton, Wendt, Whipple, Wolensky.

### Sociology Major

Consists of a minimum of 34 credits in sociology courses including:

1. Required: Sociology 101, 350, 351, 352.
2. Select at least 3 credits from each of the following areas:
  - a. Microsociology (social psychology/social processes): Sociology 224, 225, 310, 311, 315, 359.
  - b. Macrosociology (social structure/institutions): Sociology 240, 300, 302, 327, 356, 357.
  - c. Social problems/issues: Sociology 102, 230, 260, 261, 262, 265, 270, 305, 308, 328, 332, 333, 366, 368, 373, 460.
  - d. Comparative/cross-cultural: Sociology 322, 343, 370.
3. Select 9 additional elective credits in sociology. This may include courses from a, b, c, and d above that are not used to satisfy the particular area requirement; or choose from Sociology 295, 312, 340, 358, 361, 362, 363, 367, 395, 467, 468, 490, 494, 495, 497-499.
4. Earn at least 18 credits in courses numbered 300 and above.
5. 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 and social control: 230, 332, 333, 368, 490 (Deviance).
3. Family and socialization: 224, 225, 240, 322, 343, 468.
4. Urban and community: 260, 300, 356, 357, 358; Anthropology 350.
5. Social work: 261, 262, 361, 362, 363, 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 an appropriate area), 497-499 (in an appropriate area). Six of these credits may count toward the sociology major.



- Cognate courses: at least 6 credits from Economics 328, Home Economics Education 390, Psychology 465.

## Gerontology Minor

Consists of 25 credits. Biology 319, PEX 319, Psychology 465, Sociology 265 and 366 are required. Select 12 elective credits from the following (no more than 6 credits may be from any one discipline): Communicative Disorders 352, Economics 328, Home Economics Education 390, Food and Nutrition 458, Political Science 306, Psychology 491, Sociology 260, 308, 328, 367, 460, 467, 497-499.

## Social Gerontology Concentration for the Business Administration Major

See *Business and Economics* earlier in this catalog.



## Sociology Minor

Consists of a minimum of 18 credits. Sociology 101 and 350 are required. Additional credits are electives.

## Sociology and Anthropology Minor

Consists of a minimum of 18 credits. Sociology 101, Anthropology 101, Sociology 350 OR Anthropology 450 are required. Additional credits are electives.

## Sociology Minor for Teacher Certification

Consists of 25 credits. Take Sociology 101, 350, 351, 352 plus one three-credit course from EACH of the four areas listed in the major: microsociology, macrosociology, social problems/issues, and comparative/cross-cultural.

## Social Science in Health Minor

Consists of 24 credits.

- Required core, 12 credits from: Anthropology 380, Philosophy 302, Political Science 306, Psychology 385, Sociology 308 and 368.
- Electives, 9 credits, but no more than 6 credits earned in one of the disciplines below. Include a minimum of two areas.
  - Biology 285.
  - Economics 328.
  - Health Education 345.
  - Food and Nutrition 253, 351, 353.
  - Medical Technology 105, 295, 385.
  - Psychology 485.
  - Sociology 327, 328, 366.

- Administration/analytical, 3 credits from: Political Science 250, 397; Sociology 352, 359.
- Recommended, one course from Mathematics 355, Psychology 300, Sociology 351.

## Notes:

- 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.
- To be accepted as a major or minor at the beginning of the 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. The department chair may allow exceptions on a conditional basis.
- You may petition the department chair to accept course work 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.
- You may take courses out of normal class-level sequence only if you have approval from your adviser and instructor.

## Courses in Sociology

**SOC 100. Forum in Sociology or Social Work.** 1 cr. Lecture and discussion of current social issues or topics in sociology or social work. Subtitle will designate area. May be repeated with different subtitles for a maximum of 3 credits. Two hrs per wk or equiv. Pass-Fail only.

**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 260. Population Problems.** 3 cr. Demography, population theory, trends, and analysis; United States and world population. Prereq: 101 or 102 or Economics 210. 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 Anthropology 101, 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. Minority Groups (MNS).** 2 or 3 cr. The role of minorities in society, their influence, impact, and relationship to the larger society. Prereq: 101 or 102. GDR:SS1

**SOC 295. Special Topics in Sociology.** 1-3 cr. Subtitle will designate area. May be repeated for credit with different subtitles. Prereq: 3 cr in sociology or anthropology 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. Awareness and understanding of values, life-styles, and contributions of various minority groups including women. Discussion and lectures by faculty and guests. Pass-Fail only; attendance required to pass. Prereq: Jr st or cons instr.

**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 Anthropology 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 Anthropology 101 or cons instr.

**SOC 322 (NW). Culture and Personality.** 3 cr. How literate and nonliterate cultures and subcultures affect personality development. May not earn credit in both 322 and Anthropology 322. GDR:SS1

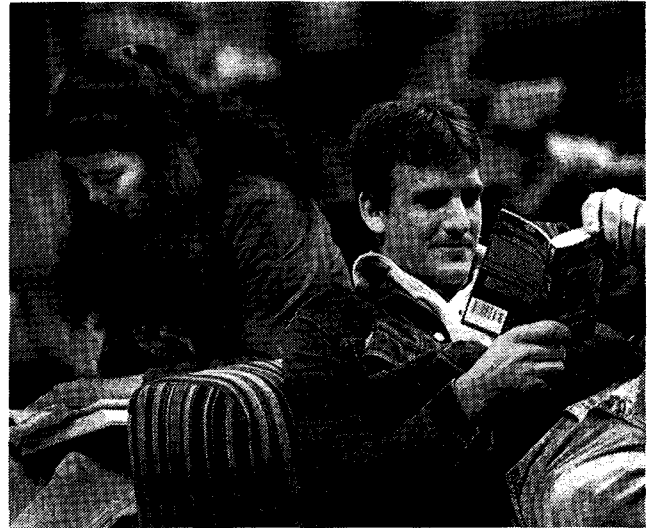
**SOC 327. Social Inequality.** 3 cr. Analyze patterns of inequality in the distribution of power, rewards, and opportunities between classes and other groups. Prereq: 101 or 102 or cons instr. GDR:SS1

**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 Economics 328. Prereq: 9 credits in sociology or Economics 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: 250 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. May not earn credit in both 343 and Anthropology 343. 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. Three hrs lec, two 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 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 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. Social Work with Native American and Other Culturally Diverse Families.** 3 cr. Awareness and understanding of values, lifestyles, and principles of social work that apply to problems affecting Native American and culturally diverse families. Prereq: 261 or cons instr.

**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. May not earn credit in both 370 and Anthropology 370. 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 be repeated for credit under different subtitles. GDR:TCI BA BS

**SOC 395. Special Topics in Sociology.** 1-3 cr. Subtitle will designate area. May be repeated for credit with different subtitles.

**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 be repeated 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 approval of field coordinator and department 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 be repeated for maximum of 4 credits. 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 will be based on the scope of the project. Up to six credits may count toward 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.

## SOCIOLOGY AND ANTHROPOLOGY

See *Sociology*.

## SOIL SCIENCE

See *Natural Resources*.

## SPANISH

See *Foreign Languages*.

## SPEECH

See *Communication*.

## SPEECH PATHOLOGY AND AUDIOLOGY

See *Communicative Disorders*.

## SPECIAL EDUCATION

See *Education and/or Health Promotion/Physical Education*.

## STUDENT TEACHING

See *Education*.

## TEACHER CERTIFICATION

See *Education*.

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## Technical Writing (College of Letters and Science)

John Coletta, Coordinator  
Room 433, Collins Classroom Center  
Phone: (715) 346-4749

An interdisciplinary minor in technical writing is administered by the English Department.

### Technical Writing Minor

Consists of 24 credits:

1. Required courses, 12 credits: English 250 (Business Emphasis) OR English 251; English 254, 354; Computer Information Systems 101, 102 with subtitles Word Processing OR Electronic Spreadsheet OR Database.
2. Electives: 12 credits selected from the following in consultation with the coordinator, with a maximum of 6 credits from any one department: Art 106; Communication 221, 321, 322, 365, 391; English 250 or 251 (not taken as required course), 350, 352, 399, 498 (maximum of 3 credits from 399 and 498 may be counted toward the minor); Instructional Resources 361; Natural Resources 369.

You should meet the general degree requirement for natural science by using courses from the following: Biology 101, 130, 160; Chemistry 101, 105, 115; Physics 101, 103, 150.

# Theatre and Dance

## (College of Fine Arts)

Arthur Hopper, Chair  
Room B-110, Fine Arts Building  
Phone: (715) 346-4429

**Faculty:** R. Baruch, Gingrasso, Hopper, Karlen, James Moore, Nevins, Olsen, Sherwin, Stepanek, Woodland.

The bachelor of arts (B.A.) or bachelor of science (B.S.) major in theatre arts has options in dance, drama, and drama education and is open to all students.

The bachelor of fine arts (B.F.A.) major in theatre arts has options in dance, drama, and musical theatre and is available to students who are accepted through auditions and interviews.

The University of Wisconsin-Stevens Point is an accredited institutional member of the National Association of Schools of Dance and the National Association of Schools of Theatre.

### Dance Option of Theatre Arts Major (B.A./B.S.)

Consists of 47 credits.

1. **Theoretical studies**, 26 credits: 3 credits of Dance 126-426 in nonperformance sections; Dance 201, 220, 221, 301, 351, 352, Dance Education 420, 421.
2. **Performance**, 21 credits: Theatre 170; Dance 211, 212 and EITHER Dance 104 or equiv, plus 9 credits from 106, 205, 206, 305, 306 OR Dance 106 or equiv, plus 9 credits from 104, 203, 204, 303, 304.

### Dance Option of the Theatre Arts Major (B.F.A.)

Consists of 78 credits.

1. **Theoretical studies**, 27 credits: 3 credits of Dance 126-426 in nonperformance sections; Dance 220, 221, 351, 352; Dance Education 420, 421; and two courses from Theatre 242, 243, or 244.
2. **Technique/performance specialization**, 21 credits: NOTES: (1) If you enter the B.F.A. program with deficiencies in either ballet or modern technique, you may not be able to achieve the stated proficiency levels in 21 credits and will need additional coursework to meet the proficiency requirements. (2) Choose one major emphasis and one contrasting minor emphasis. (3) You must take a minimum of ONE technique course each semester while you are a B.F.A. dance option candidate.
  - a. **Major emphasis, ballet:** 12 credits from Dance 106, 205, 206, 305, 306, 405, 406 and proficiency of Pre-Professional Ballet II upon completion of 406 with a grade of B.
  - b. **Major emphasis, modern:** 12 credits from Dance 104, 203, 204, 303, 304, 403, 404 and proficiency of Pre-Professional Modern II upon completion of 404 with a grade of B.
  - c. **Minor emphasis, ballet:** 9 credits from Dance 106, 205, 206, 305, 306, 405, 406 and proficiency of Advanced Ballet II upon completion of 306 with a grade of B.

- d. **Minor emphasis, modern:** 9 credits from Dance 104, 203, 204, 303, 304, 403, 404 and proficiency of Advanced Modern II upon completion of 304 with a grade of B.
4. **Acting**, 3 credits: Theatre 170.
5. **Stage and specialty dance**, 4 credits: Dance 211 and 212.
6. **Choreography**, 11 credits: Dance 201, 301, 302, 401.
7. **Senior project**, 3 credits: Dance 497.
8. **Approved electives**, 9 credits.

### Dance Minor in Theatre Arts (B.A./B.S.)

Consists of 25 credits.

1. Dance 201, 220, 221, 301.
2. Dance 352.
3. Dance 211 or 212.
4. Nine credits from ballet (Dance 106, 205, 206, 305, 306) and modern (Dance 104, 203, 204, 303, 304).

### Dance Minor for Teacher Certification in Theatre Arts (B.A./B.S.)

Consists of 29 credits.

1. Dance 201, 220, 221, 301.
2. Dance Education 420, 421 and Physical Education 315.
3. Dance 352.
4. Dance 211 or 212.
5. Three credits from ballet: Dance 106, 205, 206, 305, 306.
6. Three credits from modern: Dance 104, 203, 204, 303, 304.

### Drama Option of Theatre Arts Major (B.A./B.S.)

Consists of 48 credits.

1. Thirty credits: 3 credits of Theatre 126, 226, 326, 426 in nonperformance sections; 140, 162, 170, 213, 215, 313, 351, 352, 375.
2. Nine credits from Theatre 148, 149, 241, 242, 243, 244.
3. Approved electives, 9 credits.

The department recommends taking courses in dance and/or fencing to fulfill your physical education aerobics requirements.

### Drama Option for Teacher Certification in Theatre Arts (B.A./B.S.)

Consists of 48 credits.

1. Thirty-nine credits: 3 credits from Theatre 126, 226, 326, 426 in nonperformance sections; Theatre 140, 162, 170, 213, 215, 313, 351, 352, 375, 376; Theatre Education 381, 382.
2. Nine credits from Theatre 148, 149, 241, 242, 243, 244.
3. Complete the professional education sequence. To help you find employment with this major, the department strongly advises you to obtain a minor in a secondary subject area.

**Drama Option of the Theatre Arts Major (B.F.A.)**

Consists of 78 credits.

1. Twenty-seven credits: 3 credits from Theatre 126, 226, 326, 426 in nonperformance sections; Theatre 140, 162, 170, 213, 215, 313, 351, 352.
2. Area of specialization:
  - a. Acting:
    - 1) Three credits from Theatre 126, 226, 326, 426 in performance sections.
    - 2) Dance, 2 credits of Dance 105.
    - 3) Fencing, 1 credit of fencing from General Physical Education 133 or 134.
    - 4) Twelve credits from Theatre 232, 244 332, 497.
    - 5) Acting, 21 credits from Theatre 170, 171, 172, 271, 272, 370, 371, 372, 471, 472.
    - 6) Approved electives, 12 credits.
  - b. Design and Technology:
    - 1) Twenty-seven credits from Theatre 148, 149, 241, 242, 243, 244, 375, 445, 497.
    - 2) Art 400, 3 credits.
    - 3) Collateral courses, 9 credits: 3-6 credits from Art 103, 104, 202, 303, 331, or approved substitutes; 3-6 credits from Fashion/Interior Design 101, 204, 323, or approved substitutes.
    - 4) Approved electives, 12 credits.

**Drama Education Minor in Theatre Arts (B.A./B.S.)**

Consists of 24 credits.

1. Three credits of Theatre 126, 226, 326, 426 in nonperformance sections.
2. Fifteen credits from Theatre 140 or 148, 170, 351, 352, 375.
3. Theatre Education 381, 382.

**Drama Minor in Theatre Arts (B.A./B.S.)**

Consists of 24 credits.

1. Three credits of Theatre 126, 226, 326, 426 in nonperformance sections.
2. Nine credits: Theatre 140, 148, 170.
3. Three credits from Theatre 213, 215, or 313.
4. Three credits from Theatre 351 or 352.
5. Six credits of approved department electives.

**Musical Theatre Option of the Theatre Arts Major (B.F.A.)**

Consists of 78 credits.

1. Thirty-three credits: 3 credits from Theatre 126, 226, 326, 426 in nonperformance sections; Theatre 110, 111, 140 or 148, 162, 232 (3 credits), 244, 332, 352, 361, 497.
2. Acting, 15 credits from Theatre 170, 171, 172, 271, 272, 370, 371, 372, 471, 472.
3. Dance, 8 credits.
4. Voice, 14 credits from Music 162, 262, 362, 462.
5. Music, 4 credits of Music 158 (level 1 and 2).
6. Approved electives, 4 credits.

**Courses in Dance**

**Notes:** If you take a dance course for credit as a general physical education course to meet general degree requirements, it will NOT be counted in with the other 120 credits required for a degree.

Students minoring in dance must complete 120 credits for graduation PLUS sufficient credits to meet the general physical education requirement.

Also see listing under *Dance Education*.

**DNCE 103. Introduction to Modern Dance.** 2 cr. Rudimentary concepts of modern dance technique. For nonmajors. Does not count toward BA/BS or BFA dance major. Three hrs per wk. GDR: PE/AA

**DNCE 104. Beginning Modern Dance.** 3 cr. Mastery of introductory modern dance concepts and techniques. Four hrs per wk. May be repeated once with cons instr for a total of 6 credits. GDR:PE/AA

**DNCE 105. Introduction to Ballet.** 2 cr. Introduction to the basic concepts of ballet technique. For nonmajors. Does not count toward BA/BS or BFA dance major. Three hrs per wk. GDR:PE/AA

**DNCE 106. Beginning Ballet.** 3 cr. Mastery of introductory ballet concepts and techniques. Four hrs per wk. May be repeated once with cons instr for a total of 6 credits. Prereq: BA/BS or BFA dance major or cons instr. GDR:PE/AA

**DNCE 114. Jazz I.** 2 cr. Introductory experience in basic jazz dance vocabulary, and the stylistic elements of jazz movement.

**DNCE 115. Tap I.** 2 cr. Introductory experience in basic tap vocabulary, technique, and stylistic elements.

**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 qualitative elements of movement through improvisation. Three hrs per wk. Prereq: Dance major or cons instr.

**DNCE 203. Intermediate Modern Dance I.** 3 cr. Mastery of intermediate level concepts and techniques in modern dance. Four hrs per wk. May be repeated once with cons instr for a total of 6 credits. Prereq: 104 or cons instr. GDR:PE/AA

**DNCE 204. Intermediate Modern Dance II.** 3 cr. Continuation of 203. Four hrs per wk. May be repeated once with cons instr for a total of 6 credits. Prereq: 203 or cons instr. GDR:PE/AA

**DNCE 205. Intermediate Ballet I.** 3 cr. Mastery of intermediate level concepts and techniques in ballet. Four hrs per wk. May be repeated once with cons instr for a total of 6 credits. Prereq: 106 or cons instr. GDR:PE/AA

**DNCE 206. Intermediate Ballet II.** 3 cr. Continuation of 205. Four hrs per wk. May be repeated once with cons instr for a total of 6 credits. Prereq: 205 or cons instr. GDR:PE/AA

**DNCE 211. Beginning Specialty Dance and Stage Movement.** 2 cr. Theatrical dance forms and period styles of movement. Three hrs per wk. Open only to theatre arts majors and minors, or by cons instr. Prereq: So st. GDR:PE/AA

**DNCE 212. Advanced Specialty Dance and Stage Movement.** 2 cr. Continuation of 211. Prereq: 211 or cons instr. GDR:PE/AA

**DNCE 214. Jazz II.** 3 cr. Continuation of 114. An intermediate-level dance technique course in the jazz idiom. Prereq: 114 or cons instr.

**DNCE 215. Tap II.** 3 cr. Continuation of 115. An intermediate-level tap technique and style course. Prereq: 115 or cons instr.

**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 be repeated for credit with different subtitles. Prereq: Cons instr. GDR:PE/AA

**DNCE 301. Composition II.** 3 cr. Experience in creative manipulation of the basic elements and styles of movement into brief choreographed studies. Emphasis on solo forms. Four hrs per wk. Prereq: 201, 220, 221 or cons instr.

**DNCE 302. Composition III.** 3 cr. Continuation of 301 with emphasis on small group forms. Prereq: 301 or cons instr.

**DNCE 303. Advanced Modern Dance I.** 3 cr. Mastery of advanced level concepts and techniques in modern dance. Four hrs per wk. May be repeated once with cons instr for a total of 6 credits. Prereq: 204 or cons instr. GDR:PE/AA

**DNCE 304. Advanced Modern Dance II.** 3 cr. Continuation of 303. Four hrs per wk. May be repeated once with cons instr for a total of 6 credits. Prereq: 303 or cons instr. GDR:PE/AA

**DNCE 305. Advanced Ballet I.** 3 cr. Mastery of advanced level concepts and techniques in ballet. Four hrs per wk. May be repeated once with cons instr for a total of 6 cr. Prereq: 206 or cons instr. GDR:PE/AA

**DNCE 306. Advanced Ballet II.** 3 cr. Continuation of 305. Four hrs per wk. May be repeated once with cons instr for a total of 6 credits. Prereq: 305 or cons instr. GDR:PE/AA

**DNCE 314. Jazz III.** 3 cr. An advanced-level jazz technique class emphasizing performance elements. For those seeking professional-level dance training and experience. Prereq: 114, 214 and 206 or cons instr.

**DNCE 315. Tap III.** 3 cr. Continuation of 215. An advanced-level tap technique and style course. Prereq: Dance 215 or cons instr.

**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 be repeated for credit with different subtitles. Prereq: Cons instr. GDR:PE/AA

**DNCE 351. Dance History I.** 3 cr. Development of dance in a cultural, philosophical, and political context from prehistory through 19th century Romanticism. Prereq: First year of English composition or cons instr.

**DNCE 352. Dance History II.** 3 cr. Development of dance in a cultural, philosophical and political context from 1900 to the present. Prereq: 351, first year of English composition or cons instr.

**DNCE 399. Special Work.** 1-6 cr. Students may arrange for independent study on individual or group projects with cons instr and chair. Credit will be based on the scope of the project. Subtitle will designate area.

**DNCE 401. Composition IV.** 3 cr. Continuation of 302, with emphasis on large group forms and practical experience in major theatrical aspects of producing original choreography. Four hrs per wk. Prereq: 302 and cons instr; open to juniors with cons instr and chair.

**DNCE 403. Preprofessional Modern Dance I.** 3 cr. Mastery of preprofessional concepts and techniques of modern dance necessary for competition in the field. Four hrs per wk. May be repeated once for credit. Prereq: 304, BFA dance major status. GDR:PE/AA

**DNCE 404. Preprofessional Modern Dance II.** 3 cr. Continuation of 403. Four hrs per wk. May be repeated once for credit. Prereq: 403, BFA dance major status. GDR:PE/AA

**DNCE 405. Preprofessional Ballet I.** 3 cr. Mastery of preprofessional concepts and techniques of ballet necessary for competition in the field. Four hrs per wk. May be repeated once for credit. Prereq: 306, BFA dance major status. GDR:PE/AA

**DNCE 406. Preprofessional Ballet II.** 3 cr. Continuation of 405. Four hrs per wk. May be repeated once for credit. Prereq: 405, BFA dance major status. GDR:PE/AA

**DNCE 409. Dance Midwest.** 2 cr. Performance experience in a touring dance company. Four hrs per wk. May be repeated four times for total of 8 credits. Prereq: Audition.

**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 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.

## Courses in Dance Education.

**D ED 398. Student Teaching in Dance.** 16 cr. Observation and teaching in the elementary and/or secondary classroom under the guidance of cooperating teachers and university faculty. Prereq: Complete dance education major, DPI, and education requirements.

**D ED 420. Dance: Teaching Theories and Practices I.** 3 cr. Introduction to the theories and practices of teaching dance with application to K-12 public education and private studio situations. Prereq: Sr st or cons instr.

**D ED 421. Dance: Teaching Theories and Practices II.** 3 cr. Continuation of 420 with emphasis on guided field teaching experiences in movement and dance education. Prereq: Dance Education 420.

## Courses in Theatre

Also see listing under *Theatre Education*.

**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.

**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. Performance Laboratory.** 1-6 cr. Intensive laboratory experience in performance techniques. Subtitle will designate area. May be repeated for credit with different subtitles. Prereq: Varies with subtitle.

**THEA 140. Stagecraft.** 3 cr. Basic stagecraft: the stage and its equipment; standard tools and shop equipment; basic materials and techniques of simple scenery and property construction; basic lighting and theatre sound. Four hrs lec/lab per wk.

**THEA 148. Costume Technology I.** 3 cr. Study and apply special construction needs to stage costume; pattern development, cutting, stitching, assembly, fitting, and finishing. Involvement in university theatre productions required. Two hrs lec and/or two hrs lab per wk.

**THEA 149. Introduction to Design.** 3 cr. Beginning design techniques including drafting, sketching, rendering techniques, and model making. Introduction to computer-aided drafting and design (CADD). Three hrs lec and/or lab per wk. Prereq: 140 or 148, or cons instr.

**THEA 162. Script Analysis.** 3 cr. Introduction to analysis of a play's form, structure, style and meaning for use by actor, director, and/or designer.

**THEA 170. Acting I: Acting Fundamentals.** 3 cr. Introduction to acting. Focus on freeing inhibitions, acting terminology, and development of dramatic action.





**THEA 171. Voice and Movement for the Actor.** 3 cr. Laboratory course to analyze and develop physical and vocal awareness of skills needed for stage performance.

**THEA 172. Acting II: Scene Study.** 3 cr. Laboratory course to analyze, rehearse, and perform scenic units of contemporary plays. Prereq: 170 or cons instr.

**THEA 213. Survey of Dramatic Literature I.** 3 cr. Study of representative plays in the development of Western drama from its Greek origins through the mid-19th century. Prereq: So st. GDR:HU2

**THEA 215. Survey of Dramatic Literature II.** 3 cr. Study of representative plays in the development of Western drama from the late-19th century through WWII. Prereq: 213, so st, or cons instr. GDR:HU2

**THEA 226. Theatre Practicum.** 1 cr. Assigned participation in theatre productions.

**THEA 232. Voice and Articulation.** 1 cr. Laboratory course providing continued and frequent practice in vocal technique. May repeat for total of 4 cr. Prereq: 171.

**THEA 241. Scene Design I.** 3 cr. Elements of the scenic design process including: research, scenic analysis, floor plans, sketching, and rendering techniques, plus an introduction to Computer Aided Drafting and Design (CADD). Three hrs lec and/or lab per wk. Prereq: 149 or cons instr.

**THEA 242. Lighting Design I.** 3 cr. Theory and practice in the application of methods and principles of lighting for theatrical productions. Introduction to computer applications in lighting design. Three hrs lec and/or lab per wk. Prereq: 149 or cons instr.

**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. Three hrs lec and/or lab per wk. Prereq: 149 or cons instr.

**THEA 244. Make-up Design.** 3 cr. Study the fundamentals of two-dimensional stage make-up through character analysis, design, and application. Extensive practical experience through laboratory work. Two hrs lec, two hrs lab per wk.

**THEA 246. Stage Management.** 3 cr. Role of stage manager as assistant to the director during rehearsal and as manager of all backstage activities during production run. Scheduling, company rules,

rehearsal procedures, time management, shifts, running, closing, and moving. Computer applications for production organization, flow charting, and communication. Three hrs lec and/or lab per wk. Prereq: 140 or 148.

**THEA 271. Acting III: Audition Techniques.** 3 cr. Laboratory course to develop audition skills and resumes. Prereq: 172 or cons instr.

**THEA 272. Acting IV: Improvisation.** 3 cr. Laboratory course using improvisational exercises to develop character and emotional freedom. Prereq: 172 or cons instr.

**THEA 313. Survey of Dramatic Literature III.** 3 cr. Study of representative plays in the development of Western drama from WWII to the present. Prereq: 215 or cons instr; jr st. GDR:HU2

**THEA 326. Theatre Practicum.** 1 cr. Assigned participation in theatre productions.

**THEA 327/527. 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 be taken twice for a total of 6 credits. 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 the major or minor in drama. Prereq: Jr st or cons instr. GDR:HU1

**THEA 332. Phonetics and Dialects.** 3 cr. Learn the International Phonetic Alphabet and how to apply it to stage dialects and accents. Prereq: Jr st, majors only, or cons instr.

**THEA 341. Scene Design II.** 3 cr. Continuation of 241 with multi-set scene design, and more work on rendering techniques, model making, and computer-aided drafting and design (CADD). Introduction to resume and portfolio preparation. Three hrs lec and/or lab per wk. Prereq: 241 or cons instr.

**THEA 342. Lighting Design II.** 3 cr. Continuation of 242; develop effective and reliable approach to design work; execute designs for variety of theatre spaces; scenic projection techniques; computer

application in lighting design. Three 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 their relationship to the formation and realization of the design concept. Rendering techniques with emphasis on fabric, color, line, and figure. Three hrs lec and/or lab per wk. Prereq: 243 or cons instr.

**THEA 348. Costume Technology II.** 3 cr. Advanced work in costume construction; millinery, footwear, jewelry, dyeing, costume crafts, structural costuming, and historical construction and accuracy. Supervision of costume shop and personnel, budget, and time management. Involvement in university theatre productions required. Two hrs lec and/or two hrs lab per wk. Prereq: Jr st and 148 or cons instr.

**THEA 351/551. History of Theatre I.** 3 cr. Development of theatre arts and techniques from the beginning through the Renaissance. GDR:HU1

**THEA 352/552. History of Theatre II.** 3 cr. Development of theatre arts and techniques from the Renaissance to the present. GDR:HU1

**THEA 361. History of American Musical Theatre.** 3 cr. Survey of musical theatre as it emerged from comic opera, burlesque, vaudeville, and operetta to become a unique American art form. Major forms, trends, writers, composers, and choreographers. Introduction to over fifty of the most significant musicals of the twentieth century. GDR:HU1

**THEA 370. Acting Styles I.** 3 cr. Laboratory course to explore acting styles from classical Greek through Elizabethan theatre; emphasis on playing Shakespearean drama. Prereq: Jr or sr BFA acting or musical theatre major, or cons instr.

**THEA 371. Acting Styles II.** 3 cr. Laboratory course to explore acting styles from Restoration through Modern Eclectic theatre. Prereq: Jr or sr BFA acting or musical theatre major, or cons instr.

**THEA 372. Mime and Stage Combat.** 3 cr. Explore the basic performance techniques of mime and stage combat.

**THEA 375/575. Directing I.** 3 cr. Theory of directing; exercises in blocking and performing scenes. Four hrs per wk. Prereq: 171, and at least 3 credits in dramatic literature (140 or 246 is recommended).

**THEA 376/576. Directing II.** 3 cr. Practice in directing scenes and one-act plays; develop directing skills. Four hrs per wk. Prereq: 375 or cons instr.

**THEA 399. Directed Study.** 1-6 cr. Upperclass theatre majors or minors may arrange for independent study on individual or group projects with cons chair. Credit will be based on the 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 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. Introduction to building scaffolding. Four hrs lec/lab per wk. Prereq: 140 or 148 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 be repeated once for credit under each subtitle. Arranged. Prereq: 341 or 342 or 343 or cons instr.

**THEA 471. Acting for the Camera.** 3 cr. Theory and practice in techniques unique to acting before the camera.

**THEA 472. Musical Theatre Performance.** 3 cr. Development of musical theatre performance skills in acting, voice, and movement. May be repeated for total of 6 credits. Prereq: Jr st and cons instr.

**THEA 490/690. Seminar in Theatre.** 3 cr. Research and discussion of specialized areas of theatre and drama. Subtitle will designate area. May be repeated 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 725. Problems in Play Production.** 3 cr. Lectures and laboratory work in directing and mounting productions.

**THEA 785. Creative Drama for Children.** 3 cr. Survey of story materials; development of diction and body movements; characterization and improvisation.

**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.

### Courses in Theatre Education

**THED 381. Theatre Education I.** 3 cr. Construction and execution of effective secondary drama/theatre curriculum with emphasis on theatre as independent art form and as a means to teach other disciplines.

**THED 382. Theatre Education II.** 3 cr. Companion to 381. Teacher as producer/administrator/director of theatrical performances in secondary school; also relationships between theatre and other arts.

**THED 398. Student Teaching in Drama.** 16 cr. Observation and teaching in the elementary and/or secondary classroom under the guidance of cooperating teachers and university faculty. Prereq: Complete drama education major, DPI, and education requirements.

### THEORY/COMPOSITION

See *Music*.

## Tribal Sovereignty Minor (College of Letters and Science)

David Wrone, Coordinator  
Room 428, College of Professional Studies Building  
Phone: (715) 346-4496

This is an interdisciplinary minor administered by the History Department. It consists of a minimum of 21 credits as follows:

1. Required, 14-15 credits: Political Science 312, History 288(MNS) (Treaties), Water 350 (Chippewa Fishing Rights), Geography 303, History 388(MNS) (Tribal Sovereignty) or Geography 388.
2. Electives, 6 or more credits from: History 382(MNS), English 280, Philosophy 381(MNS), Religious Studies 316(MNS), Anthropology 339(NW), Sociology 395 (Tribal Social Welfare and Institutions).

### UNDECIDED/UNDECLARED

Contact the Student Academic Advising Center in the Student Services Building.

### WATER RESOURCES

See *Natural Resources*.

### WELLNESS

See *Health Promotion/Physical Education*.

### WILDLIFE

See *Natural Resources*.

## Women's Studies

(College of Letters and Science)

Katherine A. Ackley, Coordinator  
Room 439, Collins Classroom Center  
Phone: (715) 346-4347

Faculty: Ackley, Bayne, Dixon, Fadner, Pistono, Roberts.

### Women's Studies Minor

Consists of 22 credits:

1. Women's Studies 105, 300, and 490 or 3 credits of 499.
2. Selections from the following:
  - b. History 313, 321 (subtitle: Witchcraft, Prostitution, and Rape), 385.
  - c. Human Development 166, 367, 372.
  - d. Political Science 317.
  - e. Psychology 240.
  - f. Religious Studies 321 (subtitle: The Myth of the Hero), 330.
  - g. Sociology 240, 295 (subtitle: Sex Roles: Cross-Cultural Perspectives), 367, 468.
  - h. Women's Studies 320, 396.

### Courses in Women's Studies

**WOMN 105. 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 300/500. Topics in Women's Studies (Humanities Emphasis).** 3 cr. Interdisciplinary examination of one of the major topics in women's studies. May be taken 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 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 consent of the women's studies coordinator. Research will involve reading and a direct research project, producing significant data or a seminar paper.

### WRITING

See *English* and *Technical Writing*.

### WRITING EMPHASIS (WE)

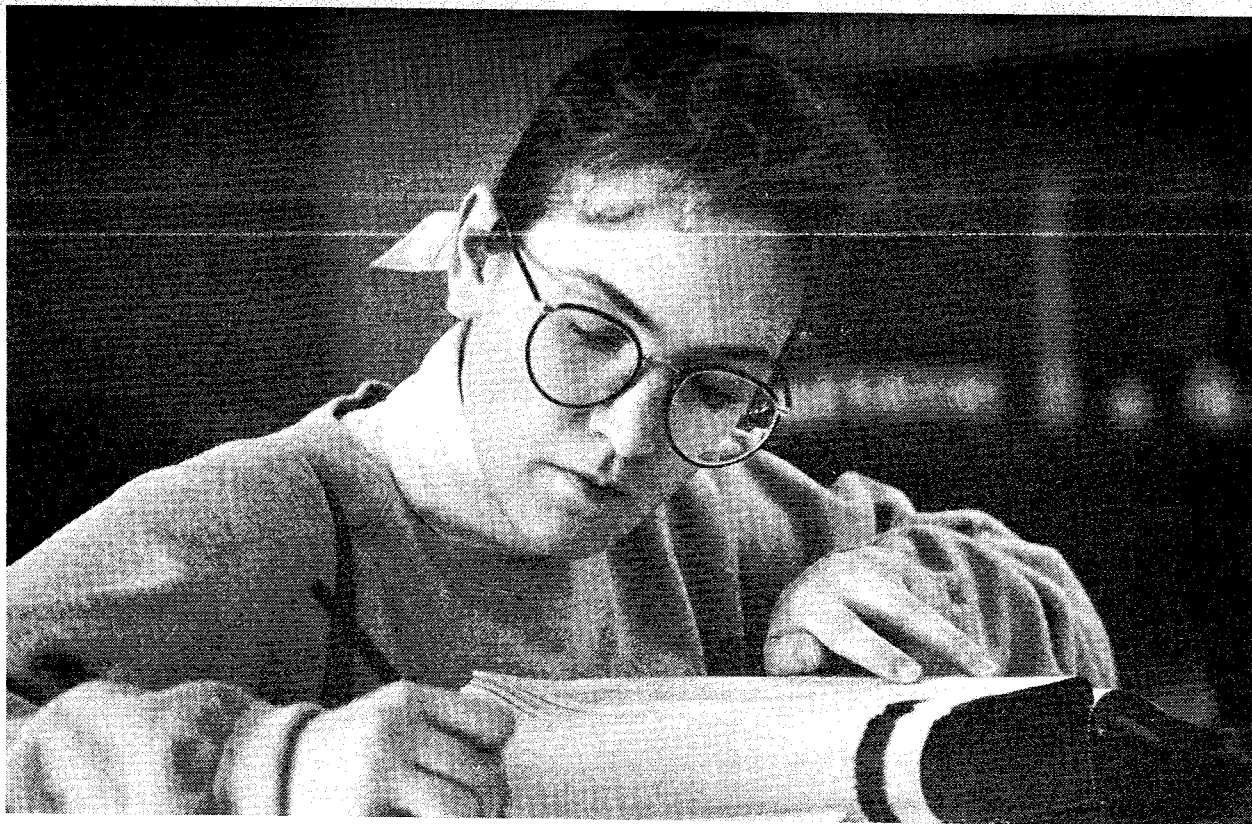
See *General Degree Requirements*. The timetable contains a list of writing emphasis course offerings for each semester.

### YOUTH PROGRAMMING AND CAMP MANAGEMENT

See *Natural Resources—Resource Management* or *Natural Resources* for the minor called Camp and Youth Agency Administration and Programming.

### 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:

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)

## Art:

106 Layout and Lettering, 3 cr, (87-89)  
 206 Layout and Lettering, 3 cr, (83-85)  
 284 Survey of the Arts of Africa, Oceania, and the 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)  
 388/588 Sub-Saharan African Arts, 3 cr, (89-91)  
 441 Crafts, 3 cr, (89-91)  
 442 Crafts, 3 cr, (89-91)  
 490 Seminar, 2 cr, (89-91)  
 701 Historical and 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)  
 741 Crafts, 3 cr, (89-91)  
 743 Fiber Arts, 3 cr, (89-91)

## Biology:

050 Science Skills, 2 cr, (89-91)  
 318 Human Genetics and Eugenics, 3 cr, (89-91)  
 332/532 Paleobotany, 3 cr, (85-87)  
 364/564 Protozoology, 4 cr, (85-87)  
 381/581 Comparative Animal Physiology, 4 cr, (85-87)  
 383/583 Human Reproduction, 3 cr, (85-87)  
 387/587 Field and Laboratory Studies in Animal Ecology, 1 cr, (85-87)  
 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:

330 Brief Course in Physical Chemistry, 4 cr, (89-91)  
 391 Seminar for Chemistry Majors in Teacher Education, 1 cr, (83-85)  
 492 Seminar for Chemistry Majors in Teacher Education, 1 cr, (83-85)

## Communication:

760 Perspectives in Communication Education, 3 cr, (87-89)  
 785 Administrative Communication: Educational Systems, 3 cr, (87-89)  
 xxx Diversity Communication Option (approved by Faculty Senate 5-2-90)

## Communicative Disorders:

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 Services in Noneducational Settings, 3 cr, (87-89)  
 780 Communicative Disorders in Children, 3 cr, (89-91)  
 782 Administrative Aspects of Communicative 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)  
 324 Literature and the Arts, 3 cr, (83-85)  
 350/550 Special Problems, 2-3 cr, (87-89)

## Computer Information Systems:

100 Elementary BASIC Programming, 1 cr, (85-87)  
 212 Advanced FORTRAN Programming, 3 cr, (87-89)  
 213 Advanced COBOL Programming, 3 cr, (87-89)  
 240 Software Design and Development, 3 cr, (87-89)  
 320 Advanced Database, 3 cr, (85-87)  
 331 Data Analysis Packages for Business and Social Sciences, 3 cr, (85-87)  
 333 Small Computers in Business, 3 cr, (85-87)

## Economics:

454 Applied Economics, 3 cr, (89-91)

## Education:

241 Creative Activities for Young Children, 3 cr, (87-89)  
 713 Seminar: Problems in Teaching Music, 4 cr, (87-89)  
 720 Research Studies in Elementary Education, 3 cr, (87-89)  
 731 Mathematics in the Elementary School, 2-3 cr, (87-89)  
 736 Individually Guided Motivation, 2-3 cr, (85-87)  
 737 IGE: Instructional Programming, 3 cr, (85-87)  
 738 IGE: Leadership Roles and Responsibilities, 1 cr, (85-87)  
 751 Advanced Tests and Measurements, 2-3 cr, (87-89)  
 760 M.A.T. Seminar: Secondary, 3 cr, (87-89)  
 763 Secondary Instruction I: Methodology and Techniques, 3 cr, (87-89)  
 764 Secondary Instruction II: Special Problems and Materials, 3 cr, (87-89)  
 770 The Adviser's Function: Student Activities Program, 1 cr, (87-89)

## English:

050 Developmental English, 3 cr, (89-91)  
 057 Independent Writing, 1 cr, (89-91)

## Fashion and Interior Design (formerly Home Economics):

712 Perspectives in Related Art, 3 cr, (87-89)  
 719 Seminar in Housing and Home Furnishings, 3 cr, (87-89)  
 721 Recent Developments in Textiles and Clothing, 3 cr, (87-89)  
 729 Seminar in Textiles and Clothing, 3 cr, (87-89)

## Foreign Language:

301 Contrastive Linguistics, 3 cr, (83-85)

## Geography:

326/526 Historical Geography of the United States, 3 cr, (83-85)  
 329/529 South America, 3 cr, (83-85)

## Geology:

101 Principles of Geology, 5 cr, (89-91)  
 320/520 Geology of Our National Parks, 2 cr, (89-91)  
 339/539 Fossil History of the Vertebrates, 3 cr, (83-85)  
 340/540 Sedimentology, 3 cr, (89-91)  
 350 Geologic Field Methods, 3 cr, (83-85)  
 360 Geomorphic Regions of the United States, 3 cr, (83-85)  
 380/580 Oceanography, 3 cr, (89-91)

## 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 Promotion/Physical Education:

250 History and Philosophy of Physical Education, 2 cr, (85-87)  
 326 Practicum in Adapted Physical Education, 5 cr, (85-87)  
 365 Physical Education Curriculum, 2-3 cr, (85-87)  
 775 Motor Development in the Exceptional Child, 3 cr, (87-89)

## History:

- 228/328 Resource Development and Policy in Europe, 2-3 cr, (85-87)
- 241/341 Problems in Russian Culture, 2-3 cr, (85-87)
- 300 Selected Historical Problems, Analysis and Writing, 3 cr, (85-87)
- 301/501 Western Culture, 3 cr, (85-87)
- 320/520 European Economic History, 3 cr, (85-87)
- 342 Polish Immigration to the United States, 3 cr, (85-87)
- 367/567 The American Frontier, 3 cr, (85-87)
- 386/586 Problems in Immigration, Ethnic, and Family History, 2-3 cr, (85-87)
- 764 Readings and Problems 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 Problems 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:

- 200 Interdisciplinary Astronomy, Mathematics, and Philosophy, 3 cr, (87-89)
- 300 Black America - A Seminar in Historical and Cultural Perspectives, 3 cr, (87-89)
- 301 The American Political Scene, 3 cr, (87-89)

## Instructional Resources:

- 211 Learning Resources Approach to Education, 1 cr, (89-91)
- 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:

- 348/548 Measurement and Computation for the Elementary School Teacher, 3 cr, (85-87)
- 368 Contemporary Mathematics for Elementary Teachers, 3 cr, (89-91)
- 385/585 Historical Topics for the Elementary School Teacher, 3 cr, (85-87)

## Military Science:

- 213 Wilderness Survival, 2 cr, (89-91)

## Music:

- 628 Music Cultures in the Pacific: the Near East and Asia, 3 cr, (89-91)
- 687 Theory and Practice of Piano Tuning and Repair, 2 cr, (89-91)
- 722 Mass, Motet, and Contata, 2 cr, (89-91)

## Philosophy:

- 207 Classical Christian Metaphysics, 3 cr, (83-85)
- 230 Introduction to Philosophy of Education, 3 cr, (83-85)
- 314 Moral Issues in Law and Social Policy, 3 cr, (83-85)
- 316 Philosophy and History, 3 cr, (83-85)
- 325 Educational Philosophy of Pragmatism, 3 cr, (83-85)
- 336 Contemporary Indian Thought, 3 cr, (83-85)

## 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)
- 317 Political Woman, 3 cr, (87-89)
- 322 Interest Groups in Politics, 3 cr, (87-89)
- 342/542 Government and Politics of Metropolitan Areas, 3 cr, (87-89)
- 344 Intergovernmental Relations, 3 cr, (87-89)
- 350 Comparative Public Administration, 3 cr, (87-89)
- 351/551 Organization Theory and Practice, 3 cr, (87-89)
- 454 Problems of Local Government Administration, 3 cr, (87-89)

## Recreation:

- 141 Recreation for Special Populations, 3 cr, (89-91)
- 142 Community Recreation, 3 cr, (89-91)
- 241 Camp Leadership, 2 cr, (89-91)
- 343 Group Games and Social Recreation, 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)
- 320 Selected Topics in Biblical Studies, 3 cr, (83-85)

## Russian:

- 243 Russian Literature in Translation, 3 cr, (83-85)

## Safety:

- 177 Beginning Safety Education, 3 cr, (89-91)
- 220 Pre- and Elementary School Safety, 2 cr, (89-91)
- 277 Driver Education, 3 cr, (89-91)
- 278 Safety Instructor Certification, 1 cr, (89-91)
- 306 Industrial and Institutional Safety, 2 cr, (89-91)
- 379 Advanced Driver and Safety Education, 3 cr, (89-91)
- 380 The Special Student in Driver Education, 2 cr, (89-91)
- 392/592 Behavioral Aspects of Accident Prevention, 3 cr, (89-91)
- 393/593 Alcohol and Other Drugs; Implications for Traffic Safety, 3 cr, (89-91)
- 397/597 Workshop in Safety Education, variable cr, (89-91)
- 399 Special Work, variable cr, (89-91)
- 790 Seminar in Current Issues, 1-3 cr, (89-91)
- 796 Independent Study, 1-3 cr, (89-91)
- 797 Workshop in Safety Education, variable cr, (89-91)

## Sociology:

- 375 Social Structure and Change in East Asia, 2-3 cr, (83-85)
- 431 Sociology of Religion, 3 cr, (83-85)
- 445/645 Development of Social Thought, 3 cr, (83-85)
- 452/652 Laboratory in Social Research, 2-3 cr, (83-85)
- 702 Intergroup Relations, 3 cr, (83-85)
- 748 Theories of Society, 3 cr, (83-85)

## Spanish:

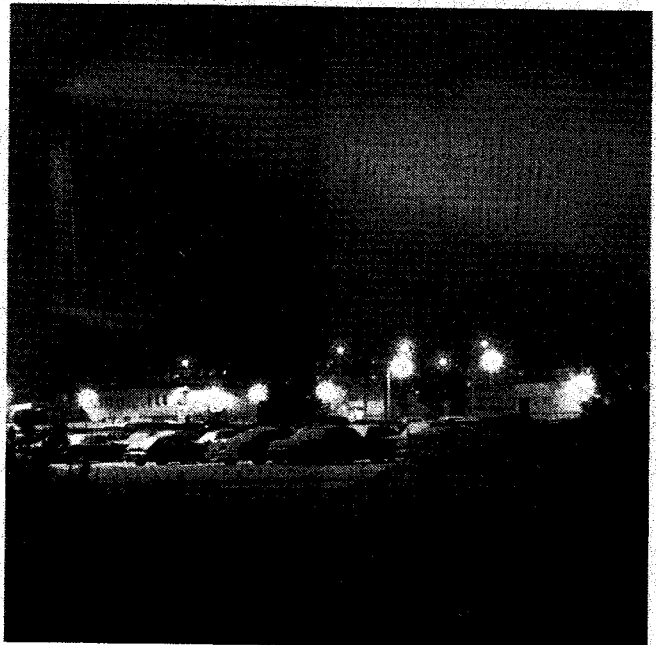
- 201 Third Semester Spanish, 3-4 cr, (89-91)
- 202 Fourth Semester Spanish, 3-4 cr, (89-91)
- 243 Spanish Literature in Translation, 3 cr, (83-85)
- 449 Poetry and Drama of the Golden Age, 3 cr, (83-85)
- 450 Prose of the Golden Age, 3 cr, (83-85)
- 451/651 Cervantes, 3 cr, (83-85)
- 460 19th Century 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):

- 702 Foundations of Dramatic Art, 3 cr, (83-85)
- 770 Seminar, 3 cr, (89-91)

## Wildlife:

- 556 Wildlife Disease Methods, 1 cr, (87-89)
- 650 Human Dimensions in Wildlife and Fisheries Management, 1 cr, (87-89)
- 656 Wildlife Economics, 1 cr, (87-89)
- 742 Wildlife Population Statistics, 3 cr, (87-89)





# More Academic Information

## Academic Bankruptcy

This is a process you may go through if you have been suspended for at least a semester due to your low grade point average. Through academic bankruptcy you may have your prior academic record adjusted.

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; and
- \* Determine your cumulative grade point average from the courses you take after being readmitted.
- \* 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 UW-SP (including grades earned at UW-SP before and after academic bankruptcy).

We do, however, keep on your official record all of the work you have done at UW-Stevens Point. And we determine whether you are eligible for graduation honors on the basis of your grade point average in all of the courses you've taken.

*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.

If you are receiving GI Bill benefits, consult your campus VA representative 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

When you enter UW-Stevens Point, you are assigned to an adviser who helps you arrange your academic program. Meet with your adviser each semester to discuss your course of study for the following semester

and to obtain your adviser's signature so that you may register for courses. Your adviser can also help you review your academic progress, improve your abilities, meet the academic requirements for graduation, and make vocational plans. However, it is up to you to meet all college and university requirements, rules and regulations.

If you have not yet declared a major, work with an adviser from the Student Academic Advising Center, Room 103, Student Services Center.

Once you declare a major, the chair of your major department assigns you to an adviser. In the College of Natural Resources, if you are a freshman or sophomore majoring in a subject other than paper science, the assistant to the dean is your adviser.

If you'd like additional academic advice, visit the Student Academic Advising Center in Room 103, Student Services Center. There you'll find information on general degree requirements, majors, minors, professional programs at UW-Stevens Point, other colleges and universities, vocational centers, and careers. If you encounter academic difficulties, you are also welcome at the Counseling Center, Room 304, Delzell Hall.

## Attendance

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

If you enroll in a course and must begin attending after classes have already started, you must first get permission from the department offering the course. Otherwise, you may be required to drop the course.

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

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

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

### 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 physical education 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).

### Continuing Education and Extension

See Admissions.

### Correspondence Courses

Although UW-Stevens Point does not offer correspondence courses, we do apply toward your degree the correspondence credits you earn through other accredited universities. See Admissions earlier in this catalog for information on how many credits you may apply toward your degree. Ask your adviser to approve any correspondence courses you'd like to take. If you take correspondence courses while taking UW-Stevens Point courses, count the correspondence courses as part of your study load.

### Credits/Semester Hours

We use the semester hour/credit to compute your study load. Each semester hour represents one hour 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. However, during the first eight days of the semester you may add or drop courses with the approval of the department chair. 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.)

Departments may require that you officially drop a course if you do not attend the first one to three class meetings. Most departments do not want to hold seats for students who do not show up. See the current timetable for the policy of specific departments.

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 after consultation with the instructor and your adviser. After the ninth week of classes, decisions on late drops will be made by the Student Academic Advising Center only if the reasons for dropping are serious illness, personal duress, or are clearly beyond your control.

Courses dropped during the first eight days will not appear on your transcript. You will receive a W for all courses dropped after the eighth day of the semester. Repeated occurrences of W may affect your ability to maintain standards of academic progress and may jeopardize your eligibility for financial aid. See

Satisfactory Academic Progress later in this section of the catalog to determine the effect of courses not successfully completed.

*(Note to advisers: Students may be unaware of the impact dropping and adding may have on their progress toward a degree. Encourage the students you advise to consult with you when they make program changes. Your approval is required to add a class after the eighth day because you are in a good position to evaluate the student's ability to enter a class late and successfully complete the class.)*

You must follow the procedure established by the Registration Office to officially drop and add courses. Forms and instructions are available on the second day of classes. If you never attend or stop attending a course and do not officially drop the course, you will receive an F in the course at the end of the semester.

All drop and add dates are prorated 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.

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.

#### **Finals**

All instructors meet with their classes during the final examination period at the time and place scheduled, either to give a final examination or to provide other educational experience. 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 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; and
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; and
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 probation or 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:

- S You satisfactorily completed a noncredit course.
- 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.
- 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.)
- Inc 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.)

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 catalog.

### 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 permanent record, from which we make transcripts, you are recognized on the basis of all the work you have done, including your final term.

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 -- 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 taking student teaching only, complete at least 10 semester hours of work.

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.

#### University Honors Program

Jon Roberts, Coordinator  
Room 416, Collins Classroom Center  
Phone: (715) 346-4479

The University Honors Program is open to all interested and qualified students. It allows the superior student an opportunity for intellectual and academic achievement which normally is not available in traditional classes.

In order to graduate as a university honors graduate, you are required to complete a minimum of 15 credits of academic work in specially designed courses. There are three kinds of honors courses:

1. Courses bearing the designation "honors" and limited to students participating in the University Honors Program. These are often at the

introductory level and are intended to fulfill part of the general degree requirements.

2. Other courses (usually upper division courses) in which you contract with your professor for individualized assignments that will entitle you to receive honors credit.
3. A "senior experience" that is specific to individual departments and represents an opportunity for you as an honors student to display individualized learning skills.

If you meet any of the following criteria, you will be eligible for the honors program:

**Entering Freshmen:** (1) high school class rank in 90th percentile or above; (2) ACT or other standardized test scores with a composite score in the 90th percentile or above; (3) or special invitation from the university honors coordinator or the University Honors Committee.

**Continuing Students:** To enter the program as a continuing student you need (1) 3.2 GPA as a freshman, 3.3 GPA as a sophomore, 3.4 GPA as a junior, and 3.5 GPA as a senior; or (2) an invitation from the university honors coordinator or the University Honors Committee for admission to the program.

To remain in the honors program you must maintain a minimum grade point average of 3.50. You may withdraw from the program at any time without losing credit for the honors work successfully completed.

**Why Participate in Honors?** Benefits that you may expect from participation in the honors program include: (1) the stimulation of close intellectual association with other talented students and faculty in a variety of academic settings in addition to the traditional classroom; (2) the personal satisfaction of meeting the challenge of honors work and of outstanding achievement; (3) the notation on your university record, diploma and transcript as a University Honors graduate, adding to your credentials and appealing to prospective employers or graduate schools; (4) membership in a rewarding student organization, the University Honors Society.

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

### **Incompletes**

You receive an "Incomplete" if you have not finished your work in a course and have obtained your instructor's permission to complete the course. Your instructor will give you an "Incomplete" only if extenuating circumstances exist or if you need to extend your research or performance beyond the normal limits of a term. Your instructor will notify the department chair of the work you need to complete in order to receive credit.

You must remove an "Incomplete" during your next semester in attendance, or it automatically becomes a failure. If you are delayed for reasons beyond your control, you may be able to make arrangements with the

instructor and the department chair to extend this time limit.

If you have received veterans benefits for a course in which you received an "Incomplete," you must refund those benefits to the Veterans Administration if you do not replace the "Incomplete" with a grade within 12 months.

To remove an "Incomplete" do not register in a subsequent semester to retake the course. Instead, arrange with your instructor to complete the work you have yet to do in the course. When you have completed the work satisfactorily, your instructor will report the removal of the "Incomplete" to the Registration and Records Office. You too should report your completion to the Registration and Records Office so that they may do appropriate follow-up.

### **Interim Sessions and Mini-Courses**

You may take a number of courses between semesters and during the period between the end of the school year and the beginning of summer school. Each session usually lasts about three weeks, and you may complete no more than 1 credit per week. For further information on interim session and mini-courses contact the Office of Continuing Education and Extension.

### **International Programs**

Robert Bowen, Director  
Mark Koepke, Assistant Director  
Room 208, Old Main Building  
Phone: (715) 346-2717

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. We try to keep costs down to make international travel available to the majority of students.

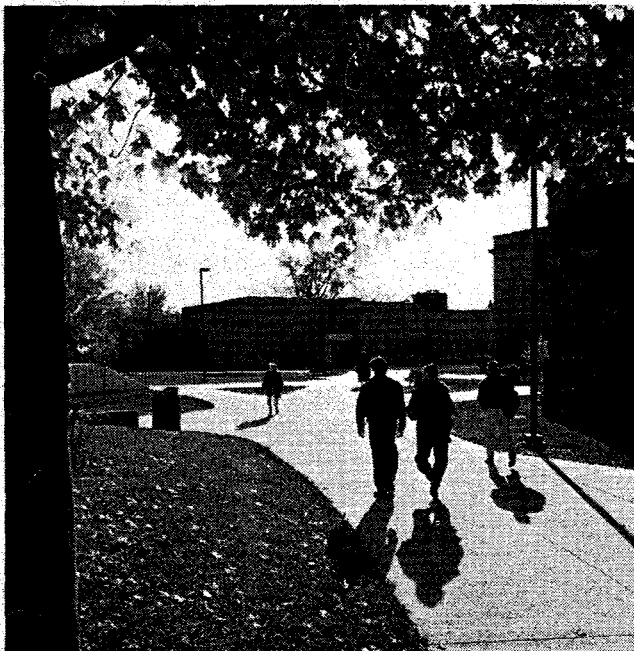
During your study abroad you can earn 13-17 standard UW-Stevens Point credits. Each program includes a 12-week academic residency period and an extensive study-travel tour.

In Europe you may study in Britain, Germany, Greece, Poland, or Spain. We have a program in Taiwan, and in the South Pacific you may study for a semester in Australia, Fiji, and New Zealand. Interim and summer programs feature varying locations and themes such as tropical ecology in Costa Rica, bicycle tours in Europe, and architecture and design in Britain.

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, write or visit the International Programs Office.

### **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

We encourage you to declare your major field of study as soon as you decide, but no later than completion of 56 earned credits. You do this by filling in the appropriate blank on your registration forms with the name of your major. Do this for all majors and minors you choose to study.

It is up to you to be sure that you meet all the requirements for your major and minor. You must have a cumulative grade point average of 2.00 in your major(s), including prescribed collateral courses, in order to be eligible for departmental approval to graduate with the major(s). However, some departments require higher grade point averages. To find out what you must earn in your department, read its major and minor requirements under *Courses of Instruction* earlier in this catalog. At least one semester before you graduate, check with each department in which you are majoring and minoring to make sure you are meeting all of their requirements.

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 131 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 been 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, you 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 physical education) each semester. However, you may count no more than 20 credits from pass/fail courses (other than required physical education) 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 physical education or if the course is offered on pass/fail alone.



Count pass/fail courses only as electives. Count the credits you earn in them toward the total credits you need for a degree, but don't use such courses to satisfy any other degree requirements. For example, a course which applies toward the humanities requirement might be available on a pass/fail option. If you take it on an A-F basis and earn a D or better, you may count the course toward your humanities requirement. If you take it under the pass/fail option and pass the course, you may not count it 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 physical education/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) 346-3136.

### 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*.

### Records (Privacy and Access)

The Family Education Rights and Privacy Act of November 20, 1974 (Buckley Amendment) 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 at the reservation desk of the library and at the Student Academic Advising Center, Room 103, 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 University of Wisconsin staff and faculty.
- \* Employment records.
- \* Medical and counseling records used solely for treatment.
- \* Financial records of your parents.
- \* Confidential letters and statements or recommendations placed in your records prior to January 1, 1975.
- \* Confidential letters and statements or recommendations for admission, employment, or honorary recognition placed in your records after January 1, 1975, for which you have waived the right to inspect and review.

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



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

*Where are my records kept?*

Records are not maintained in a central location on the campus. Requests to review your records must be made separately to each office which maintains your records. Your request must be made in writing and presented to the appropriate office. That office will have up to 45 days to honor your request. For most students, these offices will include those of the registrar, your school or college dean, your major department, Protective Services, and any other campus office with which you have been in contact, such as Student Financial Aid or 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 Life 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.
- \* 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.
- \* Class schedule.
- \* 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. After you have filed this form, the registrar will notify the appropriate university offices and begin to comply with your wishes as soon as possible.

*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 the Student Life Office, Delzell Hall, 346-2611, or the Registrar's Office, Room 101, Student Services Center, 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 Life, telephone 346-4194.

**Repeating Courses**

With the approval of your adviser, you may repeat a course in which you received an F. You may do so only once, unless the Student Academic Advising Center grants you an exception. In some academic units you may also need department authorization; if you are a graduate student, the dean of graduate studies must approve your repeating a course.

You may not repeat a course in which you received a D unless your adviser and the department chair approve your retaking the course. You may not repeat a course in which you received a B or C unless: (a) your major or minor requires a higher grade in that course and (b) your adviser and the department chair approve your retaking 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.

Before repeating a course, fill out the Request to Repeat Course Form available at the Registration and Records Office.

**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 may meet either the academic requirements approved prior to the semester you first enroll or those approved later. But be sure to meet all of whichever set of requirements you choose. To find out what requirements have changed since this catalog went to press, ask your adviser. 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 feel that special circumstances warrant a change in your degree requirements, talk to your dean. If you feel that special circumstances warrant a change in your major/minor requirements, talk to your department chair.

**Residence Requirements**

To be eligible for a bachelor's degree from UW-Stevens Point, you must earn at least 30 of the total credits required for the degree (excluding required physical education) at UW-Stevens Point.

**Residency (State of Wisconsin)**

See *Finances*.

**Satisfactory Academic Progress**

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

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

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

You can determine your academic progress percentage from your last grade report, or you can ask for an evaluation by 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 + or -.
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 accumulated 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

If you have earned one bachelor's degree, you may 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 Conduct

The Office of Student Conduct 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 346-3860.

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 UW-Stevens Point's institutional policies under these procedures (Chapter UW-SP 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 Conduct. We urge you to read Chapter UW-SP 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

An average study load per semester is 15 semester hours of courses (including work in correspondence, evening, and Saturday courses) plus one semester hour of physical education every other semester. If you register for 12 to 16 semester hours of courses each semester, plus one physical education credit each year, you are carrying an average course load.

If you want to take 18 to 20 semester hours of courses in a given semester (plus your required physical education credits), you may request permission to do so from the Student Academic Advising Center. They will grant permission only if your academic record warrants a special exception.

If you want to take over 20 credits, you may request permission from your dean. We grant such a request only for extraordinary reasons and only for a student who has long had an outstanding academic record.

In order to qualify for either Social Security benefits or full Veterans Benefits (Public Law 550), carry at least 12 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 timetable 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. If you order one transcript, you pay \$4.00 for it. If you order more than one at a time, you pay \$4.00 for the first and \$1.00 for each additional copy. 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. 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, send a transcript of these credits 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, you will not graduate until a later graduation.

**Wisconsin Residency**

*See Finances.*

**Withdrawing from UW-Stevens Point**

*See Drop/Add/Withdrawal Procedures.*

**Year in School**

*See Classification/Year in School.*



# Campus Resources

## Building Abbreviations

CAC, Communication Arts Center  
 CCC, Collins Classroom Center  
 CNR, College of Natural Resources  
 FAC, Fine Arts Center  
 CPS, College of Professional Studies  
 LRC, Learning Resources Center  
 Main, Old Main Building  
 Phy Ed, Physical Education Building  
 Sci, Science Building  
 SSC, Student Services Center  
 UC, University Center

## Academic Resources

**Academic Achievement Center**  
 018 LRC, 346-3568

**Academic Computing Services**  
 019 LRC, 346-2081

### Computer Labs:

X2197, 026 LRC  
 X2073, B228/238 Sci  
 X2617, 307/323 CCC  
 X4162, 231 CNR  
 X3451, 107 CPS

### Admissions Office

102 SSC, 346-2441

### Advising Services

**Student Academic Advising Center**  
 103 SSC, 346-3361

### Biology Peer Advising

206 CNR, 346-3452

### Busn/Econ/Acct Peer Advising

304 CCC, 346-3391

### Communicative Disorders Advising

034 CPS, 346-3668

### Education Advising

470 CPS, 346-4400

### Natural Resources Peer Advising

129 CNR, 346-4233

### Undecided Advising Center

103 SSC, 346-3361

### Archives

506 LRC, 346-2586

### Continuing Education/Extension

103 Main, 346-3717

### Educational Support Programs

209 SSC, 346-3828

### Honors Program

416 CPS, 346-4479

### International Programs

208 Main, 346-2717/3757

### Laboratories

**Anthropology Laboratory**  
 D314 Sci, 346-3752

### Cartography Laboratory

B310 Sci, 346-2629

### Computer Geographics Laboratory

B346 Sci, 346-2629

### Coop Fish Research Unit

118 CNR, 346-2178

**Electron Microscope Laboratory**  
 332 CNR, 346-4267

**Foreign Language Laboratory**  
 305 CCC, X2972 (on-campus only)

**Genetics Laboratory-Biology**  
 B212 Sci, 346-2187

**Marine Science Laboratory**  
 D122 Sci, 346-4487

**Media Lab (Instructional Materials)**  
 316 LRC, 346-4199

**Reading Laboratory**  
 018 LRC, 346-3568

**Speech and Hearing Laboratory**  
 018 CPS, 346-4514

**Student Video Operations (SVO)**  
 118 CAC, 346-3068

**Water Testing Laboratory**  
 220 CNR, 346-3209

**Writing Laboratory**  
 018 LRC, 346-3568

## Library Resources

**Film Rental**  
 305 LRC, 346-3826/4199

**Government Publications (Documents)**  
 602 LRC, 346-3726

**Information Desk**  
 101 LRC, 346-2540

**Instructional Materials Center (IMC)**  
 302 LRC, 346-4246

**Interlibrary Loan**  
 104D LRC, 346-2809

**Periodicals**  
 205 LRC, 346-2775

**Reference Room**  
 104 LRC, 346-2836

**Reserve Desk**  
 107 LRC, 346-4428

**Registration and Records**  
 101 SSC, 346-4301

**Semester Abroad**  
 208 Main, 346-2717/3757

**Student Academic Advising Center**  
 103 SSC, 346-3361

**Tutoring Services**  
**Educational Support Programs**  
 209 SSC, 346-2150/3828

**Academic Achievement Center**  
 018 LRC, 346-3568

## Activities

**Association for Community Tasks**  
 UC, Lower, 346-2260

**Campus Activities and Organizations**  
 042 UC, 346-4343

**Student Government Association**  
 UC, Lower, 346-4036

**Student Life**  
 Delzell Hall, 346-2611

**University Activities Board**  
 UC, Lower, 346-2412

## Athletics/Recreation

**Athletic Events/Sports Information**  
 111 Phy Ed, 346-2840

**Athletic Tickets**  
 126 Phy Ed, 346-3888

**Health Enhancement Center**  
 Phy Ed, 346-4165

**Intramural Sports**  
 107 Phy Ed, 346-4441

**Recreational Services/  
 Equipment Rental**  
 UC, Lower Level, 346-3848

**Schmeckle Reserve Visitor Center**  
 North Point Drive, 346-4992

## Career Planning/Development

**Career Services**  
 134 Main, 346-3136/3226

**Counseling and Human Development Center**  
 304 Delzell Hall, 346-3553

**Life Planning-Counseling Center**  
 Third Floor, Delzell Hall, 346-3553

## Child Care/Preschool

**Gesell Institute for Early Childhood**  
 124 CPS, 346-2655

**University Child Learning and Care Center**  
 Lower Level, Nelson Hall, 346-4370

## Employment

**Career Services**  
 134 Main, 346-3136/3226

**Student Employment Office**  
**Job Location and Development Program**  
 003 SSC, 346-2174/2656

**Work/Study Program**  
 003 SSC, 346-2174/2656

## Entertainment

**Concerts, Lectures, etc.**  
**Performing Arts Series**  
 A200 FAC, 346-3265  
 Box Office, 346-4100

**Conference and Reservations**  
 204 UC, 346-2427

**Dial-an-Event, 346-3000**

### Radio

**WWSP 90 FM**  
 101 CAC, 346-3755 Business  
 346-2696 Request Line

**Stevens Point Bureau**  
**Wisconsin Public Radio**  
 107 CAC, 346-4660

### Theatre

**109B FAC, 346-4429 Office**  
 346-4100 Box Office

**University Activities Board**  
 UC, 346-2412 Office  
 346-3000 Dial-an-Event

## Exhibits and Museums

**Agnes A. Jones Gallery**  
 127 CPS, 346-4600

**Athletic Hall of Fame**  
 Quandt Fieldhouse Lobby

**Aviary and Nature Displays**  
 CNR Building

**College of Natural Resources Mural**  
 South Face of CNR Building

**Conservation Hall of Fame**  
 Schmeckle Reserve Visitor Center



Costume Collection  
209 CPS, 346-2619

Edna Carlsen Gallery  
A208 FAC, 346-4797

Fish Collection  
416/146A CNR, 346-4268

Forestry Hall of Fame  
CNR Building Lobby

Foucault Pendulum  
Science Building

Herbarium  
D007B Sci, 346-2637

Map Center  
B304 Sci, 346-2629

Museum of Natural History  
106 LRC, 346-2858

Observatory  
D403 Sci, 346-3950/2139

Planetarium  
A217 Sci, 346-2208/2139

Vallier Goblet Collection  
FAC Balcony

### Finances

Accounts Receivable  
(Student Billing)  
105G SSC, 346-4796/2118

Cashier (Bursar)  
007 SSC, 346-2088

Financial Aid  
105 SSC, 346-4771

Scholarships  
212 Main, 346-3811

### Health

Student Health Service  
206 Delzell, 346-4646

Counseling Center  
Third Floor, Delzell, 346-3553

Alcohol and Other Drug Education Program  
Third Floor, Delzell, 346-3553

Communicative Disorders Clinic  
Room 001 CPS, 346-3667

St. Michael's Hospital  
900 Illinois Ave., 346-5000

Student Health Insurance  
Student Government Office  
UC, Lower Level, 346-4037

### Housing

Off-Campus Housing  
First Floor, Delzell, 346-3861

On-Campus Housing (Dorms)  
Lower Level, Delzell, 346-3511

### Legal

Equal Opportunity/Affirmative Action  
210 Main, 346-2002

Student Legal Services/Tenant Assn.  
UC, Lower Level, 346-4282

### Publications

UW-SP Catalog  
Admissions Office  
102 SSC, 346-2441

University Store  
UC, Lower Level, 346-3431

Pointer (student newspaper)  
(Copies available throughout campus)  
104 CAC, 346-3707/2249

Pointer Alumnus  
Alumni Office, 212 Main, 346-3811

Pointer Daily  
(Copies available throughout campus)  
Information Center, UC, 346-4242

Timetable  
Registration and Records  
101 SSC, 346-4301

### Religious Centers

Newman Center (Catholic)  
2108 Fourth Ave., 345-6500

Lutheran Peace Center  
1517 Maria Dr., 345-6510

United Ministries in Higher Education  
(Protestant)  
2108 Fourth Ave., 341-0266

University Christian Ministry  
2108 Fourth Ave., 345-6500

### Resources for the Community

American Suzuki Talent Education Center  
Suzuki House, 346-3033/2049

Association for Community Tasks  
UC, Lower Level, 346-2260

Small Business Development Center  
012 Main, 346-2004

Central Wis. Economic Research Bureau  
110 CCC, 346-3774/2537

Central Wisconsin Environmental Station  
Amherst Junction, 824-2428

Communicative Disorders Clinic  
001 CPS, 346-3667

Conservatory for Creative Expression  
A200 FAC, 346-2787

Continuing Education/Extension  
103 Main, 346-3717

Groundwater Center  
109 Nelson Hall, 346-4270

National Wellness Institute  
123 South Hall, 346-2172

Odyssey of the Mind  
470 CPS, 346-2040

Schmeckle Reserve Visitor Center  
North Point Drive, 346-4992

University Telecommunications  
110 CAC, 346-2647

Water Testing  
Environmental Task Force  
220 CNR, 346-3209

### Special Populations

Alumni and UW-SP Foundation, Inc.  
212 Main, 346-3811/3812

Disabled Student Services  
103 SSC, 346-3361

Foreign Student Office  
119 Nelson Hall, 346-3844/3849

English Language Institute  
119 Nelson Hall, 346-3849/3844

Cultural Diversity Programs  
Native American Center  
206 SSC, 346-3576

Upward Bound  
202 SSC, 346-3337

Educational Support Programs  
205 SSC, 346-3828

Study Skills  
027 LRC, 346-2150/2883

Tutoring  
209 SSC, 346-2150

Weekend College  
122 CCC, 346-2044

New Student Programs  
103 SSC, 346-3361

Nontraditional Students  
Nontraditional Student Services Office  
131 UC, 346-2045

Senior Citizens  
Audit Program for Credit Courses  
Continuing Education/Extension  
103 Main, 346-3717

Veterans  
Registration and Records  
101 SSC, 346-4301

Women's Resource Center  
10A Nelson Hall, 346-4851

### Miscellaneous

Convenience Centers  
Allen Center, 346-2811  
DeBot Center, 346-3057

Duplicating  
D020 Sci, 346-4927

Information  
UC Info Desk, 346-4242  
346-0123 University Operator

Lost and Found  
Information Center, UC, 346-4242

News Service  
116 Main, 346-3046

Parking  
101B Stien, 346-3900

Protective Services  
Stien Building, 346-3456

Ride Board  
First Floor, UC; Allen/DeBot Centers

STP-Student Transit Program  
(Escort Service)  
10 Nelson Hall, 346-4851

Text Rental  
University Store, UC, 346-3431

University Graphics and Photography  
14 Nelson Hall, 346-3096

University Store  
Lower Level, UC, 346-3431



# Faculty and Academic Staff

This symbol (☞) in front of the name means that the person is academic staff with primary job responsibilities not related to teaching.

An asterisk (\*) following the name indicates a part-time assignment. Appointments for summer, less than one semester, or less than 3 credits are not listed.

The date indicates the beginning of service at the University of Wisconsin-Stevens Point.

The initials HPERA indicate the School of Health, Physical Education, Recreation, and Athletics.

This is a listing of the faculty and academic staff for the 1990-91 academic year.

**R. Anne Abbott**, Professor of HPERA; Director of Health Promotion/Wellness; 1987. B.S., East Tennessee State University; M.S., Florida State University; Ph.D., University of Pittsburgh. (graduate faculty)

**Said Abubakr**, Associate Professor of Paper Science, 1985. B.S., M.S., Moscow Institute for Petroleum and Petrochemical Industries; M.S., Ph.D., Michigan State University. (graduate faculty)

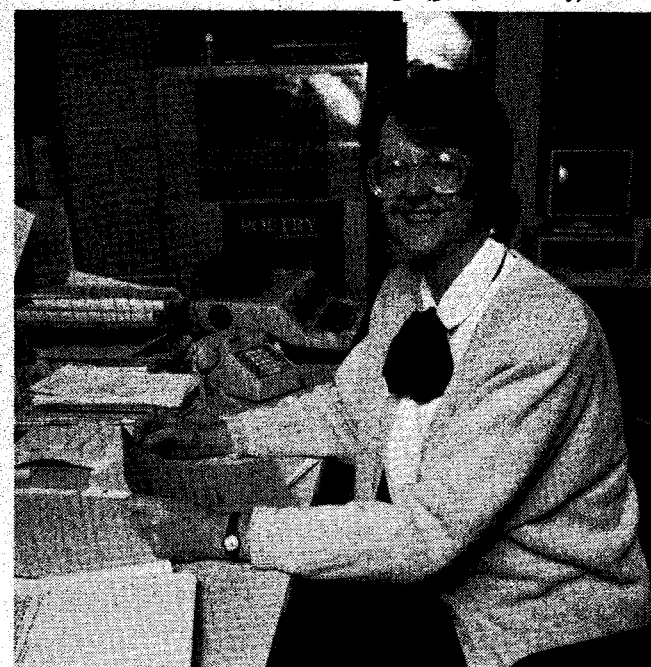
**Katherine Anne Ackley**, Professor of English; Assistant Dean of Graduate Studies; Coordinator, Women's Studies; 1979. M.A., Purdue University; B.A., Ph.D., Ball State University. (graduate faculty)

**Richard C. Ackley**, Assistant Professor of Mathematics and Computing, 1967. B.S., Western Michigan University; M.A., University of Michigan, Ann Arbor.

☞**Janice S. Albertson**, Interior Designer, Student Life Business Operations, 1980. B.S., University of Wisconsin-Stevens Point.

**Gary T. Alexander**, Associate Professor of Philosophy, 1986. B.A., Transylvania University; M.Div., Lexington Theological Seminary; M.A., Ph.D., University of Chicago. (graduate faculty)

**Marlene Alexander\***, Lecturer in Philosophy, 1990. A.B., University of Arizona; M.A., The New School for Social Research; Ph.D., Pennsylvania State University: State College. (graduate faculty)



**Randy Alexander**, Director of University Housing, 1991. B.S., M.S., East Texas State University.

**Calvin Young Allen**, Associate Professor of Communication, 1969. B.A., University of Evansville; M.A., Ohio University. (graduate faculty)

**Margaret (Peg) Allen**, Processing Coordinator in the University Library, 1990. B.A., Macalester College; M.A.L.S., University of Wisconsin-Madison.

**Margaret N. Andersen\***, Teacher, University Child Learning and Care Center, 1982. B.S., University of Wisconsin-Stevens Point.

**Eric M. Anderson**, Assistant Professor of Wildlife, 1990. B.S., Michigan State University; M.S., Ph.D., Colorado State University. (graduate faculty)

☞**John Edward Anderson**, Director of News and Publications; Editor of *Pointer Alumnus*; 1967. B.A., University of Wisconsin-Eau Claire.

**Katherine J. Anderson**, Assistant Professor in the University Library, 1985. B.A., M.A., University of Wisconsin-Stevens Point; M.L.S., University of Wisconsin-Madison.

**Martha L. Anderson**, Associate Lecturer in Mathematics and Computing, 1987. B.S., University of Wisconsin-Oshkosh; M.A., The University of Kansas.

**Raymond K. Anderson\***, Emeritus Professor of Wildlife, 1966. B.S., University of Wisconsin-Stevens Point; M.A., University of Michigan, Ann Arbor; Ph.D., University of Wisconsin-Madison. (graduate faculty)

☞**Colleen Andrews**, Information Processing Consultant, Academic Computing/User Services, 1986. B.A., Dominican College (University of Wisconsin-Parkside).

**Gerald A. Annonson\***, Assistant Basketball Coach, 1990. B.S., University of Wisconsin-Oshkosh; M.S., United States Sports Academy.

☞**Ernest Anthes**, Information Processing Consultant in Academic Computing, 1989. B.S.E.E., Marquette University.

☞**David Aplin**, Assistant Director and Program Coordinator of the Central Wisconsin Environmental Station, 1989. B.S., M.S., University of Wisconsin-Stevens Point. (graduate faculty)

**Arne Arneson**, Associate Professor, Director of University Library, 1987. B.M., M.M., M.A., University of Wisconsin-Madison. (graduate faculty)

**James Arrowood**, Senior Lecturer in Music, 1990. B.A., Wake Forest University; M.A., Radford University.

**M. Roberto Assardo**, Professor of Foreign Languages, 1973. B.A., M.A., Indiana University; Ph.D., University of California, Los Angeles. (graduate faculty)

**Donald L. Aylesworth**, Associate Professor of Communicative Disorders, 1969. B.S., Western Michigan University; M.A., Ph.D., Michigan State University. (graduate faculty)

**Judy A. Bablitch\***, Associate Lecturer in Sociology, 1984. B.A., Beloit College; M.S.W., University of Illinois, Chicago. (graduate faculty)

**Robert C. Badger**, Associate Professor of Chemistry, 1984. B.S., Ohio University; Ph.D., The University of Toledo. (graduate faculty)

**John Bailiff**, Professor of Philosophy, 1966. A.B., Stanford University; M.A., Ph.D., The Pennsylvania State University. (graduate faculty)

**Mary Ann Baird**, Associate Professor of Fashion and Interior Design, 1962. B.S., University of Wisconsin-Stout; M.S.T., University of Wisconsin-Stevens Point.

**Robert F. Balas**, Professor of Communicative Disorders, 1976. A.B., Valparaiso University; M.A., Northern Illinois University; Ph.D., University of Denver. (graduate faculty)

**Richard J. Barker**, Assistant Professor of Foreign Languages, 1988. B.A., Hamilton College; M.A., University of Iowa; Ph.D., University of Oregon. (graduate faculty)

**Robert Baruch**, Professor of Theatre, 1967. B.A., University of North Texas; M.A., University of Colorado at Boulder; Ph.D., University of Minnesota. (graduate faculty)

- Gregory P. Bauer, Senior Psychologist, 1988. B.S., University of Wisconsin-Stevens Point; M.S., Ph.D., Oklahoma State University. (graduate faculty)
- Nancy E. Bayne, Professor of Psychology, 1975. B.S., M.S., Ph.D., Iowa State University of Science and Technology. (graduate faculty)
- David H. Beadle, Professor of Music, 1973. B.M., University of Wisconsin-Madison; M.M., Eastman School of Music, University of Rochester. (graduate faculty)
- Kirk H. Beattie, Professor of Wildlife, 1979. B.S., Colorado State University; M.S., Mississippi State University; Ph.D., Virginia Polytechnic Institute and State University. (graduate faculty)
- Larry Beck, Director of Physical Plant, 1990. B.S., Purdue University; M.B.A., University of Chicago.
- Margaret Beeber, Advising Coordinator in the School of Education, 1989. B.S., University of Wisconsin-Stevens Point.
- Robert B. Beeken, Professor of Physics and Astronomy, 1980. B.A., Western State College of Colorado; M.S., Ohio University; Ph.D., The University of Iowa. (graduate faculty)
- Richard H. Behm, Professor of English; 1976. B.A., College of Saint Thomas; M.F.A., Ph.D., Bowling Green State University. (graduate faculty)
- Holly L. Bembenek, Director of Conference and Reservations, 1976. B.S., B.A., University of Wisconsin-Stevens Point.
- Donald A. Benz, Professor of Education, 1966. B.E., University of Wisconsin-Stevens Point; M.A., Ph.D., George Peabody College for Teachers, Vanderbilt University. (graduate faculty)
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- Coralie E. Wells**, Professor of Psychology, 1968. B.A., The Catholic University of America; M.A., Ph.D., University of Minnesota. (graduate faculty)
- Dennis D. Wendt\***, Adjunct Instructor in Sociology, 1985. B.A., Wartburg College; M.S.W., University of Michigan, Ann Arbor. (graduate faculty)
- ‡**Ronald G. Weseloh**, Director, University Telecommunications, 1972. B.S., University of Wisconsin-Stevens Point; M.S., University of Wisconsin-La Crosse.
- ‡**Scott A. West**, Admissions Counselor; Assistant Director of Campus Activities for Student Involvement; 1985. B.A., University of Wisconsin-Stevens Point.
- Margaret Whalen**, Instructor in the University Library, 1975. B.A., M.A., University of Wisconsin-Madison.
- Mary T. Whalen**, Associate Professor of Mathematics and Computing, 1988. B.A., Clarke College (Iowa); M.A., University of Northern Iowa; Ed.D., Indiana University. (graduate faculty)
- C. Stuart Whipple**, Adjunct Instructor in Sociology, 1979. M.S.S.W., University of Wisconsin-Madison. (graduate faculty)
- Charley M. White**, Professor of Biology, 1966. B.S., Eastern Illinois University; M.S., Ph.D., Purdue University. (graduate faculty)
- ‡**Stephanie Misaki Whiting**, Student Services Program Manager, 1989. B.A., University of Illinois; M.A., University of Wisconsin-Stevens Point.
- Terry E. Wick**, Professor of History, 1969. B.S., M.A., Ph.D., Indiana University. (graduate faculty)
- ‡**Julie E. Wiebusch**, Residence Hall Director, 1989. B.A., Winona State University; M.S.Ed., Eastern Illinois University.
- Richard J. Wilke**, Professor of Environmental Education; Associate Dean of the College of Natural Resources; 1976. B.S., M.S., University of Wisconsin-Stevens Point; Ph.D., Southern Illinois University-Carbondale. (graduate faculty)
- ‡**Mary M. Williams**, Special Assistant to the Chancellor, 1976. B.A., University of Wisconsin-Madison; M.A.T., University of Wisconsin-Stevens Point.
- Michael Williams**, Assistant Professor of English, 1989. B.A., University College Cardiff, University of Wales; M.A., Ph.D., Washington State University.
- Patricia Williams\***, Lecturer in Fashion and Interior Design; Curator of Costume and Textile Collections; 1983. B.S., M.E.P.D., University of Wisconsin-Stevens Point.
- Leslie Owen Wilson**, Assistant Professor of Education, 1990. B.S., Towson State University; M.Ed., Phillips University; Ed.D., Oklahoma State University. (graduate faculty)
- Neal Winkler\***, Lecturer in Education, 1990. B.S., Wartburg College; M.S., University of Northern Iowa; Ph.D., Indiana University. (graduate faculty)
- W. Richard Witt**, Lecturer in HPERA; Head Coach of Track and Cross-Country; 1977. B.A., M.A., University of Northern Iowa. (graduate faculty)
- William E. Witt**, Professor of Communication, 1970. B.A., B.S., University of Wisconsin-La Crosse; M.S., Ph.D., University of Wisconsin-Madison. (graduate faculty)
- Diane J. (Libby) Witte**, Associate Professor in Human Development and Nutritional Sciences, 1977. B.S., M.S., University of Minnesota; Ph.D., University of Tennessee. (graduate faculty)
- Robert L. Witte**, Professor of Business and Economics, 1987. B.S., University of Wisconsin-Eau Claire; Luther Theological Seminary; M.S., Ph.D., University of Wisconsin-Madison. (graduate faculty)
- Robert P. Wolensky**, Professor of Sociology; Co-Director of the Center for the Small City; 1976. B.A., Villanova University; M.A., Ph.D., The Pennsylvania State University. (graduate faculty)
- Roger L. Wood**, Professor of Education, 1966. B.S., University of Wisconsin-Stevens Point; M.S., Ph.D., University of Wisconsin-Madison. (graduate faculty)
- William Wresch**, Professor of Mathematics and Computing, 1984. B.A., M.A., San Francisco State University; M.S., Ph.D., University of Wisconsin-Madison. (graduate faculty)
- Steven M. Wright**, Associate Professor of Chemistry, 1982. B.A., Elmhurst College; Ph.D., Marquette University. (graduate faculty)
- David R. Wrone**, Professor of History, 1964. B.A., A.M., Ph.D., University of Illinois at Urbana-Champaign. (graduate faculty)
- Roy A. Yanchesky**, Lieutenant Colonel, U.S. Army, Professor of Military Science, 1988. B.S., Cameron University; M.A., Gonzaga University.
- Eric J. Yonke**, Assistant Professor of History, 1990. A.B., Loras College; M.S., Ph.D., University of North Carolina at Chapel Hill. (graduate faculty)
- Alan D. Young**, Assistant Professor of English, 1969. B.A., The University of Kansas; M.A., University of Colorado at Boulder.

# 184 Faculty and Staff

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‡**Judith Young\***, Associate Adviser in Upward Bound, 1989. B.A., University of Wisconsin-Stevens Point.

**Holly Youngbear-Tibbetts**, Assistant Professor of Geography and Geology, 1990. B.A., Bemidji State University; M.S., Ph.D., University of Wisconsin-Madison. (graduate faculty)

‡**James R. Zach**, Coordinator of Clinical Services and Family Physician in University Health Services; Adjunct Assistant Professor of Biology; 1979. B.S., University of Wisconsin-Whitewater; M.D., University of Wisconsin-Madison.

‡**John P. Zach**, Career Counselor, 1983. B.S., M.S., University of Wisconsin-Whitewater.

**Thomas M. Zanis**, Assistant Professor of Chemistry, 1990. B.S., University of Wisconsin-Stevens Point; Ph.D., University of Nebraska-Lincoln. (graduate faculty)

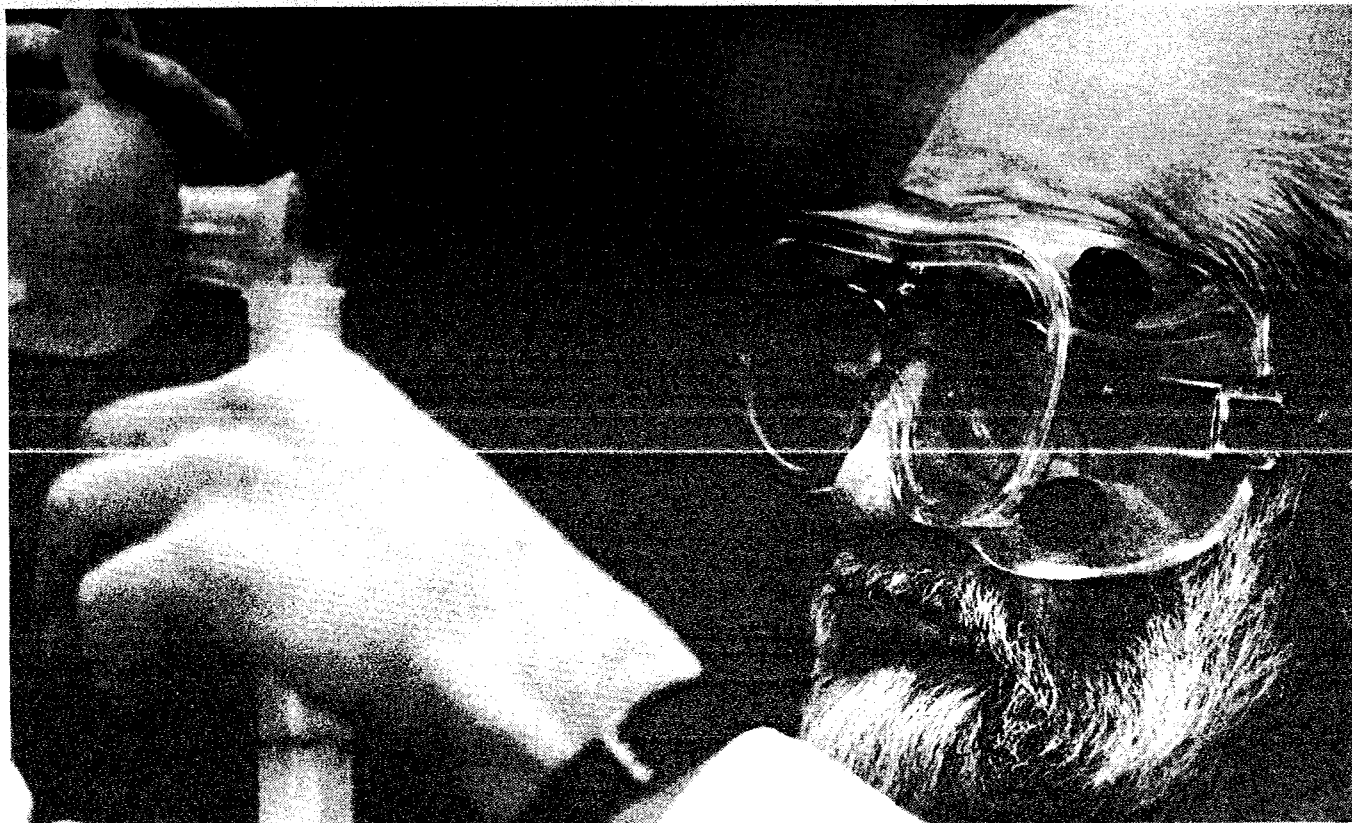
**John P. Zawadsky**, Professor of Philosophy, 1966. B.A., Rutgers University; M.A., Ph.D., Harvard University. (graduate faculty)

**Stephen A. Zenz\***, Assistant Professor of Music, 1984. B.M.E., University of Wisconsin-Eau Claire; M.M.E., University of Wisconsin-Stevens Point. (graduate faculty)

**William Zimdars\***, Associate Lecturer in Education, 1990. B.E., University of Wisconsin-Whitewater; M.E., University of Wisconsin-Superior.

‡**Ron Zimmerman**, Director of Schmeckle Reserve, 1977. B.A., M.S., University of Wisconsin-Stevens Point. (graduate faculty)

**Kathleen Zuge\***, Associate Lecturer in Field Experiences; Consultant in Education; 1991. B.S., M.E.P.D., University of Wisconsin-Stevens Point.



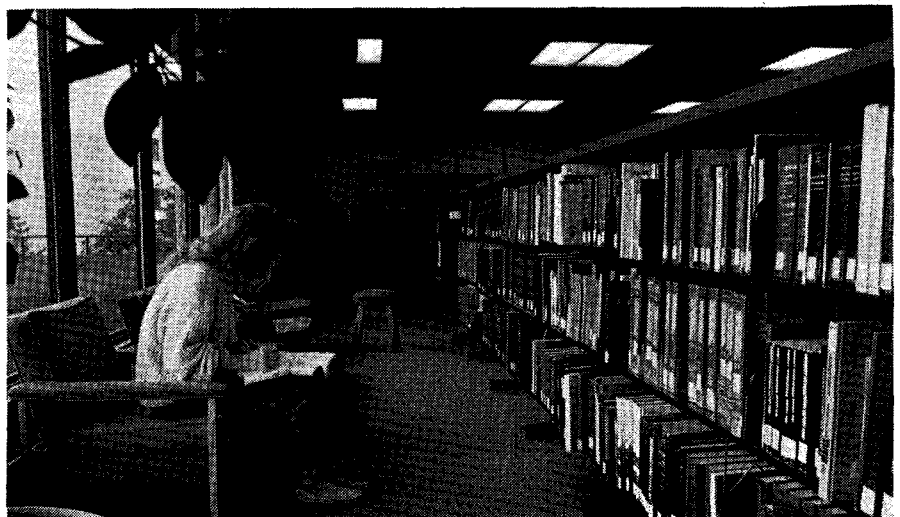
# Emeritus Faculty

Dates indicate years of service at the University of Wisconsin-Stevens Point.

Margery V. Aber, 1967-1984  
 Betty J. Allar, 1966-1990  
 Raymond K. Anderson, 1966-1990  
 Robert T. Anderson, 1953-1985  
 John W. Barnes, 1956-1986  
 Allen F. Barrows, 1969-1987  
 Frederick M. Baumgartner, 1965-1975  
 Lloyd H. Beck, 1964-1983  
 George C. Becker, 1957-1979  
 John M. Bernd, 1964-1983  
 Melvin Bloom, 1966-1988  
 Jon T. Borowicz, 1975-1989  
 James A. Bowles, 1967-1990  
 Lee A. Burruss, 1958-1988  
 T.K. Chang, 1956-1975  
 Alice L. Clawson, 1966-1987  
 William C. Clements, 1955-1975  
 Clifford C. Cone, 1965-1982  
 Jay H. Cravens, 1976-1988  
 Mary K. Croft, 1970-1985  
 Frank W. Crow, 1947-1982  
 Duaine K. Counsell, 1957-1988  
 Doris V. Davis, 1952-1977  
 Winthrop Difford, 1968-1987  
 Orthula C. Doescher, 1964-1982  
 Fred R. Dowling, 1960-1983  
 Lee Sherman Dreyfus, 1967-1978  
 Burdette W. Eagon, 1950-1983  
 John Blaise Ellery, 1968-1982  
 Robert J. Engelhard, 1967-1991  
 Richard D. Face, 1963-1990  
 Merl L. Farmer, 1963-1977  
 Alice Peet Faust, 1961-1985  
 Gilbert W. Faust, 1935-1980  
 Arthur M. Fish, 1967-1985  
 Virginia Kemp Fish, 1967-1987  
 Gail Moore Fountain, 1969-1981  
 Arthur L. Fritschel, 1970-1987  
 Colleen M. Garvey, 1965-1984  
 Gordon Geeseman, 1962-1990  
 Guy J. Gibson, 1957-1985  
 A. Irene Gray, 1961-1976  
 (Died May 3, 1991)  
 Gordon M. Haferbecker, 1956-1979  
 Wayne L. Halverson, 1965-1991  
 Albert E. Harris, 1941-1975

Thomas J. Hayes, 1959-1988  
 Helen F. Heaton, 1968-1990  
 John R. Heaton, 1966-1988  
 Ethel V. Hill, 1956-1980  
 Donald J. Hoff, 1964-1989  
 (Died June 12, 1990)  
 Wolfgang O. Horn, 1968-1983  
 Daniel C. Houlihan, 1964-1987  
 Pauline H. Isaacson, 1946-1982  
 Charles H. Johnson, 1967-1988  
 John H. Johnson, 1965-1990  
 Agnes A. Jones, 1956-1988  
 Alexandra B. Kaminska, 1963-1979  
 Marjorie Phelps Gerson Kampenga, 1966-1983  
 Nelis R. Kampenga, 1941-1974  
 Norman E. Keats, 1956-1988  
 Paul Kelch, 1965-1983  
 Lulu O. Kellogg, 1953-1970  
 Marjorie E. Kerst, 1948-1970  
 Irving L. Korth, 1962-1986  
 Hazel M. Koskenlinna, 1961-1987  
 Frederich A. Kremple, 1948-1985  
 Peter A. Kroner, 1954-1977  
 Robert H. Krueger, 1962-1987  
 Hildegard R. Kuse, 1957-1990  
 Keith F. Lea, 1968-1986  
 Alan D. Lehman, 1963-1986  
 Warren J. Lensmire, 1965-1985  
 Robert S. Lewis, 1942-1976  
 Leone Maves, 1971-1982  
 Bonnie McDonald, 1964-1982  
 William Mark McKinney, 1963-1988  
 John C. Messing, 1971-1990  
 Joel C. Mickelson, 1958-1990  
 Clifford A. Morrison, 1953-1988  
 Delmar C. Multauf, 1966-1988  
 Francis Murans, 1966-1981

Russell L. Oliver, 1964-1989  
 John C. Pearson, 1967-1990  
 Maurice E. Perret, 1963-1981  
 Edgar F. Pierson, 1938-1980  
 Orland E. Radke, 1956-1985  
 Shirley A. Randall, 1968-1986  
 Phyllis A. Ravey, 1952-1975  
 Orville M. Rice, 1956-1984  
 Robert G. Rossmiller, 1965-1984  
 Henry M. Runke, 1953-1987  
 Mary S. Samter, 1943-1973  
 Herbert H. Sandmann, 1960-1988  
 Calvin H. Schmid, 1963-1984  
 Richard C. Schneider, 1962-1988  
 Gordon D. Shipman, 1966-1971  
 Robert E. Simpson, 1956-1986  
 Harry H. Smith, 1963-1974  
 Waclaw W. Soroka, 1963-1987  
 Zofia A. Olenka Soroka, 1964-1985  
 Raymond E. Specht, 1947-1982  
 Marjorie J. Spring, 1965-1983  
 David B. Stafford, 1969-1984  
 Donald F. Stetzer, 1968-1990  
 William A. Sylvester, 1969-1981  
 Adolph J. Zeke Torzewski, 1968-1985  
 Daniel O. Trainer, 1971-1988  
 Roland A. Trytten, 1945-1982  
 Adrian J. Van Lieshout, 1966-1981  
 Robert H. Weaver, 1961-1990  
 John F. Weiler, 1963-1987  
 Herbert G. Wenger, 1967-1985  
 Carol Marion Wick, 1965-1991  
 Bernard F. Wiesel, 1947-1977  
 Wayne G. Wild, 1967-1982  
 (Died January 2, 1990)  
 Robert F. Wilde, 1957-1985  
 S. Joseph Woodka, 1966-1988



## University Associates

The title of university associate is granted to colleagues in other institutions or agencies who are contributing academic services to this university.

**Biology:** Brian Belonger, M.S., Fish Manager, Wisconsin Department of Natural Resources, Marinette; Greg Doelle, M.D., Endocrinology, The Marshfield Clinic; Mark Holey, M.S., Fish Manager, Wisconsin Department of Natural Resources, Sturgeon Bay; Sharon Maby, M.D., Pediatrics, The Marshfield Clinic; Paul Peeters, M.S., Fish Manager, Wisconsin Department of Natural Resources, Two Rivers; Edward Plotka, Ph.D., Senior Research Physiologist, Marshfield Medical Research Foundation; Duane Tewksbury, Ph.D., Senior Research Biochemist, Marshfield Medical Research Foundation; Mike Toneys, M.S., Fish Biologist, Wisconsin Department of Natural Resources, Sturgeon Bay; John Weir, M.D., Nuclear Medicine, The Marshfield Clinic.

**Communicative Disorders (Audiology):** Tim Becker, M.S., Children's Hospital of Wisconsin, Milwaukee; Kathy Haasch, M.S., Appleton Area School District and Fond du Lac Clinic; Donald Hanson, M.S., Marshfield Clinic; Steve Huart, M.S., Wausau Medical Center; George Kilsdonk, M.A., Wausau Medical Center; Anita Konikoff, M.A., Park Nicollet Medical Center, Minneapolis; James Lombardo, M.S., Wausau Medical Center; John May, M.S., Wood VA Hospital, Milwaukee; Rita Mueller, M.A., Park Nicollet Medical Center, Minneapolis; Suzanne Newman, M.S., Sheboygan Clinic; David Palm, Ph.D., Gunderson Clinic, La Crosse; Steve Ryan, M.S., Medical College of Wisconsin, Milwaukee; Carol Shirber, M.S., Minnesota Ear, Head, and Neck Clinic, Minneapolis; Richard Strand, M.S., Marshfield Clinic; Charles Stone, M.S., Allied Hearing Services, Minneapolis; Fred Tyszka, Ph.D., Sheboygan Clinic.

**Communicative Disorders (Speech and Language Pathology):** Rose Bartelt, M.S., Marshfield Clinic; Julie Burmesch, M.S., Stevens Point Schools; Margie Dorschorst, M.S., Wisconsin Rapids Schools; Lynn Dyer, M.S., Neenah Schools; Nancy Elsner-Bean, M.S., St. Vincent's Hospital, Green Bay; Chris Hissong, M.S., Green Bay Schools; Paul Jacobson, M.A., Wausau Hospital; Maxine Johnson, M.S., Stevens Point Schools; Anne Lang, M.S., Neenah Schools; Deborah Miller, M.S., North Central Health Care Facilities, Wausau; Renee O'Brien, D.C., Everest Schools; Nancy Pankratz, M.S., Wausau Schools; Anne Pourchot, M.S., Stevens Point Schools; Mary Lee Reineking, M.S., Stevens Point Schools; Kay Savelle, M.S., Menasha Schools; Grace School, M.S., Appleton Schools; Edgar Spees, M.S., Nekoosa Schools; Cathy Steffen, M.S., Stevens Point Schools; Terry Swenson, M.S., Menomonee Falls Schools; Teresa Waldkirch, M.S., Green Bay Schools; Judy Ward, M.S., Menasha Schools; Deborah Wolfe, M.S., Wausau Hospital.

**Fashion and Interior Design:** Jan Albertson, B.S., Interior Designer, UW-Stevens Point; Jill Thom, B.S., Design Services Manager, Emmons-Napp Office

Products, Stevens Point; Jeff Zabel, B.S., Sentry Insurance, Stevens Points.

**Museum of Natural History:** Alvin Bogdansky, Research Associate, Vesper; Sally K. Freckmann, M.S.T., Research Associate, Stevens Point; Kurt Johnson, Ph.D., Research Associate, American Museum of Natural History, New York City; Carol Lanphear-Cook, M.S., Research Associate, Stevens Point; Sharon Schwab, M.S., Research Associate, Wisconsin Rapids.

### Natural Resources:

**Environmental Education:** Dave Engelson, M.S., Supervisor of Environmental Education, Wisconsin Department of Public Instruction; Dennis Yockers, Ph.D., Environmental Education Coordinator, Wisconsin Department of Natural Resources.

**Fisheries:** James Addis, M.S., Administrator, Division of Resource Management, Wisconsin Department of Natural Resources; Robert Hunt, M.S., Leader of Coldwater Research Group, Bureau of Research, Wisconsin Department of Natural Resources.

**Forestry:** Anton Hammer, Ph.D., Forstdirektor, Baden Baden; A. Ott, M.S., Forstdirektor, Forstant, Altensteig, Germany; Robert Skiera, City Forester, Bureau of Forestry, Milwaukee; Forest Stearns, Ph.D., Emeritus Professor of Botany, UW-Milwaukee; Wolf Thiry, M.S., Forstdirektor, Forstant, Ohvingen, Germany; Helmut E. Weiss, M.S., Oberforstrat Enz.

**Resource Management:** William Horvath, M.S., Regional Director, National Association of Conservation Districts; Harold (Bud) Jordahl, Ph.D., Emeritus Professor, UW-Madison.

**Soil Science:** David Ankley, M.S., UW Extension, Stevens Point; David Curwen, Ph.D., Horticulture Specialist, Hancock Experimental Station; Brian Jensen, M.S., UW Extension Pest Management Specialist, Madison; John Peters, M.S., Soil and Forage Analysis Lab, Marshfield; Rich Riggs, Grounds Supervisor, UW-SP; Ray Schmidt, Portage County On-Site Waste Specialist; Tim Victor, B.S., Portage County Land Conservationist, Stevens Point; Keith Widdel, B.S., Portage County District Conservationist, Stevens Point.

**Wildlife:** Robert Brander, Ph.D., Ecologist, Apostle Islands National Lakeshore; Milton Friend, Ph.D., Director, U.S. Fish and Wildlife Service, National Wildlife Disease Research Center; Jonathan H. Bilbert, M.S., Great Lakes Indian Fish and Wildlife Commission; Richard Hunt, M.S., Retired, Department of Natural Resources; Lynn L. Rogers, Ph.D., U.S. Fish and Wildlife Service; John Toepfer, Ph.D., Fort Totten, N.D.

**University of Wisconsin Extension:** Mary Ann Dehn, Central District Director; Catherine Stover, M.A., Editor of *Small Business Forum*.

**Education:** The following are cooperating teachers for the 1989-1991 school years.

**Abbotsford:** Doris Eiden  
**Adams-Friendship:** Stella Bryant, Harriet Dehlinger, Terri Schider.  
**Almond:** Patricia Krueger  
**Amherst:** Ron Davis, Linda Ehlers, Leanne Krutza, John Luebke, Hazel Shulfer, Verna Toftum, Laurel Young.



**Antigo:** Nancy Blood, Ronald Blood, Kathleen Cross, Flore Doverspike, Grace Franc, Shirley Koepfel, Nancy Reznicek, John Roberts, Sandra Waltzer.

**Appleton:** Marlene Angevine, Jeff Barthen, Barbara Bauer, Pamela Bauer, Pat Behm, Mary Benotch, Marilyn Conradt, Nancy Crockford, Judy DeShaney, Sue Duven, Darlene Freiberg, Sherwin Fuerbringer, Diane Grueneberg, Ann Halverson, Dan Heinritz, Myron Jackson, Gloria Johnson, Peg Kading, Bill LaBar, Molly Landis, Stephanie Malaney, Steve O'Brien, Rebecca O'Conner, Ruth Park, Ann Paton, Nancy Rances, David Reinke, Melinda Reppert, Mary Schuh, Larry Schwab, Jean Seitz, Marcia Steffenhagen, MaryAnn Steinberg, Lorraine Steuck, Donna Vandenbrook, Phillip Voskuil, Linda Weber, Vernon Wilmot, Craig Winder, Audrey Young.

**Athens:** Cynthia Gebhardt

**Auburndale:** Steve Allar, James Legge, Fred Wollenburg.

**Balsam Lake:** Kathy Howe

**Baraboo:** Jeanne Marking

**Berlin:** Marilyn Voeltner

**Birnamwood:** Gene Gretzlock, Diane Matsche.

**Bonduel:** Linda Lasek

**Bowler:** Alan Marquardt, Jeffery Thompson.

**Clintonville:** Craig Akey, John Donnelly, Joan Joy, Beverly Wruck.

**Crandon:** John Gruber, Art Packard.

**Denmark:** C. Vanden Langenberg, Diane Thomas.

**DePere:** Nancy DePrey, Betty Hutchins.

**Eagle River:** Kim Vetter

**Edgar:** Jean Abreu

**Fond du Lac:** Sue Ferris

**Granton:** Julie Cravillon

**Green Bay:** Shirley Andres, Christine Hissong, Anthony Schultz, Nancy Siewert, Teresa Waldkersch.

**Greenwood:** Barbara Bugar, Patricia Dahl, Marie Eckdahl, Daryl

Guenther, Jerry Hamm, Nancy Koschak.

**Irma:** Denise Janssen

**Janesville:** Diane Danielson, Nancy Jung-Brown.

**Keshena:** Dan Hinkfuss

**La Crosse:** Ann Gibbons, Pam Helgerson, Alex Vaver.

**Little Chute:** Julie Janquart, Jane Klozotsky, Ron Meidam.

**Luxemburg-Casco:** Diane Olson, John Wienke.

**Madison:** Gregory Mueller, John Rafoth.

**Manawa:** Carl Roenz

**Marathon:** Ronald Chellevoid, John Culhane, Donald Lutz, Gary Raether.

**Marshfield:** John Allen, Ronald Aslakson, Karen Bloczynski, Barbara Brightsman, Sharon Caskey, Walt Chapman, Dianne Crockett, Vicki Dankemyer, Debbie Duecker, Richard Halle, Don Hoehn, Pete Hulke, Wendy Hultunen, Joan Jansen, Lisa Johansson, Kenneth Kolek, Pete Kopplin, Joann Lange, Tim McCollum, Patrick McConnell, Tom McShane, Yvonne Meyer, Constance Milz, Graham Olson, Pat Pautzke, Debbie Perki, Scott Prickett, Shari Pritzl, Delores Rinehart, M. Judy Roy, Janice Schultz, Mary Shuda, June Simonson, Jeanette Stand, Jeanette Strand, Carroll Taylor, Connie Taylor, Linda Thompson, Nathan Thompson, Richard Treankler, Peter Upton, Ken Zittleman.

**Medford:** Bev Adams, Henry Clark, Karen Dallas, Enid Fuchs, Jacqueline Grunewald, Jina Klemm, Beth Peterson, Roxy Robida, Mary Zimmerman, Ann Zwolanek.

**Menasha:** Kay Savela, Judith Ward.

**Menomonee Falls:** Terry Swenson

**Merrill:** Phyllis Bauman, Linda Becker, David Belfiori, Carrie Bezier, Ted Kiar, Joanne Koshalek, Joni Lefebvre, Linda Maki, Scott Nocco, Dan Nordall, James Richardson, Sherry Rondeau, Mary Schauer, Rita Weichman, Mary Jo Wojtusik, Dean Zimmerman.

**Milwaukee:** Linda Albertson, Jan Barmore, Bonnie Book, Christopher Brown, Wilma Ealy, James Gordon, Kathleen Hoppe, Mary Hughes, Joan Kidman, Dennis Lypek, Diane McNally, Richard Radke, Chris Rao, Joyce Rian, Lillian Schwantes, Cynthia Theyel, Shirley West.

**Mosinee:** Carol Bray, Patrick Buchberger, Barb Cayton, Rebecca Davies, Val Einecher, Sharon Kind, Joseph Martens, Susan Meagher,

Donna Nelson, Patrick Page, Galen Parkinson, Barb Rademaker, Joyce Scullin, Bill Shirer, Louise Thompson.

**Mukwonago:** Jane Domahoski

**Neenah:** Nancy DeBoer, Lynn Dyer, Paul Fellenz, Anne Lang, Ann Leonard, June Luett, Robert Raboin, Will Scribner.

**Nekoosa:** Mary Benbow, Margaret Brunner, Boyd Campbell, Marcie Clark, Nancy Fritz, Robert Hoff, Becky Hoffman, Lucy Johns, Michael Kumm, Mary Leklem, Dale Loomans, Ruth McComber, Donna Rathermel, Edgar Spees, Richard Staatz, Cammy Wipperfurth.

**Oneida:** Elizabeth Timmins.

**Oshkosh:** Ginger Dean, Dawn Johnson, Judith Weinert.

**Pittsville:** MaryBeth Aumann

**Plainfield:** Fred Appleyard, Trudy Buchanan, Linda Copas, Geri Jansky, Debbie Lewellen, Larry Mancl, Cathy Nelson, Debra Schroeder, Debbie Scott, Lila Thorson, Tom Whalley.

**Port Edwards:** LeAnn Chase, Jean Fritz, Lowell Glodosky, Mary Haines, Joanne Karberg, Joanne Karberg, Kathy McGrath, Diane Merrill, Donna Saeger, Michaelen Schroeder, Debbie Steele, Judith Ward, Joan Foley, Sharon Groskruetz, Diane Healy, Nancy Langbecker, Mary Mittlesteadt, Cindy Moyer, Bob Roy, Julie Wilz.

**Rhineland:** Jon Bailey, Pete Biolo, David Dall, Paul Ebert, Earl Garberson, Sharon Jensen, Robert Krizenesky, Sue Kuckkahn, Erik Larsen, Beverly Marko, Judy Martin, Marie Martini, William Murphy, Candy Sorenson, Liz Wahlstrom, Rita Wiegenstein.

**Rib Lake:** Barbara Anderson

**Ringle:** Candice Plaza, Peter Schmidt.

**Rosholt:** Kay Blair, Kathryn Kawleski, James Lautenbach, Linda Mezich, Linda Trzebiatowski, Shari Walkush, Mary Ann Weisbrod, Mary Ann Wiezorek.

**Rothschild:** Lori Teegarden-Anderson

**Rudolph:** Virginia Joosten

**Sauk City:** Martha Schmid

**Schofield:** George Ackermann, Paul Aleckson, Martha Amend, Fred Bartnik, Bruce Chopp, Susan Conrad, Mark Conway, Sally Cramer, Eugene Dix, Oscar Durkee, Joyce Endrizzi, Jim Evers, Sharon Feathers, Nancy Gajewski, Robin Gettleman, Duane Gray, Brenda Grosskreutz, Rebecca Harris, Paula Hauber, Bart Heckendorf, Thomas Jacob, Gary Jellish, Sara Johnson, Robert Jones, Jim Kegel, Beverly Meyer, Jacqueline Michael, Craig Miller, Leroy Miller, Todd Miller, Tim Nyenhuis, Robert Oelke, Laverne Olson, Renee O'Brien, Timothy O'Connor, Frank Pietrzak, Kathryn Pietsch, Lisa Salter, Jeanne Schuetz, Mark Simon, Rita Weiske, Fred Yulga, Karen Zriny.

**Shawano:** Nancy Melbauer, Judy Miesbauer, Bonnie Splitt.

**Spencer:** Beth Bye, Margaret Filbrandt.

**Stetsonville:** Neil Witte

**Stevens Point:** Bill Allen, Jack Allgaier, David Amdahl, Anton Anday, Lonna Anderson, Margaret Anderson, Elinor Assardo, Peter Barsness, Wanda Bembenek, Mary Lynn Benz, Terry Benzene, Jill Bergman, Santha Bickford, Russell Bouck, Susan Bouck, Richard Brend, Mary Bubla, Robert Bucholtz, Barbara Buehler, Richard Burhite, Venita Burling, Julie Burmesch, Helen Busch, Lois Cable, Connie Carpenter, Sue Chapman, JoAnn Chase, Greg Chelcun, James Cliver, Carol Colby, Tim Corcoran, H. Ann Cragg, Kathleen Daun, Barbara Disher, Patricia Dow, Sandy Dzikoski, Jan Eckerman, Ann Eggleston, Stephen Eisenhauer, Sally Ellingboe, Betty Ermatinger, Bonnie Freiberg, Mary Jo Fritz, Patricia Gerbitz, Shirley Gibb, Douglas Gilberts, Ron Ginsbach, Lois Glinski, Gary Glock, Mary Gonske, Steven Gonske, Hikaru Goodwin, Janice Grabski, Kay Grace, Karrie Groshek, Brad Grunniwaldt, Carole Guillemette, Flores Gumz, Sue Hall, Warner Halverson, David Hanks, Monica Hatton, Laura Haugen, Barry Hautala, Jackie Heinz, Jan Hermann, Kris Hesch, Janice Higgins, Marla Hintze, Gerald Hoff, Lynn Holborn, Sharon Holland, Dale Huebner, Mary Jacobson, Helen Jersey, Helen Johnson, Joyce Johnson, Maxine Johnson, Richard Johnson, Cathy Jones, Brian Keats, Jane Kelly, Gale Kidder, Lori Kneffel, Jim Kocha, Mary Kocha, Bill Konieczki, Joyce Konopacky, Irene Kostuchowski, Diana Kowaleski, Barbara Krueger, Donna Kuhls, Janet Langton, Norman Larson, John Laude, Margaret Laude, Michael Lazars, Mike Lazars, Carol Lea, Thomasina Leafgren, Debby Legro, Mary Jo Lehman, Robert Leszczynski, Linda LeVasseur, James Lind,





Bob Linzmeier, Dick Loveless, Kathy Loveless, Laurie Maegli, Karen Martzahl, Donna Marx, Rose Matthews, Mary McGinnity, Fran McKinney, Nina McVeigh, Donna Mehlberg, Jane Menghini, Sharon Meyer, Faye Miller, Paul Mirman, Robert Moore, Carolyn Mox, Elizabeth Muhvic, Mary Mulligan, Robert Munsen, Marlene Natwick, Armin Nebel, Kathryn Negaard, Andrea Neuheuser, Vivian Newman, Jill Norton, Richard Olson, Chrismary Pacyna, Arlene Paulson, Cassandra Pederson, Dave Pederson, Barbara Pendergast, Gina Phillips, Deb Pionek, Cynny Porter, Ann Pourchot, Mary Ann Powell, Donna Prusak, Gail Pucci, Annie Raithel, Mary Lee Reineking, Arthur Reinhardt, Michael Riley, Char Roberts, Sandra Ruppert, Kathy Rutkowski, Robert Rutta, Judy Salvin, Ada Sanders, MaryJo Schaars, Nancy Schmidt, Jane Schoenecker, Martha Schuh, Angela Schweiger, Barb Shafranski, Timothy Siebert, Karen Simonis, Sue Skrzeczkoski, Marilyn Slusarski, John Smith, Laurie Smith, Richard Sommer, Pam Spaid, Andrea Spears, Valerie Stanenas, Catherine Steffen, Larry Steiner, Susan Stenstrom, Marie Stevens, Jack Stoskopf, Gail Stout, Melba Sullivan, Randy Sus, Mary Swanson, Mary Talbot, Selma Taylor, Hedy Telfer, Peter Thome, Kristin Thompson, Robert Thomson, Arlene Thoyre, Barb Tomaszewski, Richard Towey, Patricia Trebatoski, Jan Tuszka, Bob VanDenHeuvel, Donna VanDreser, Sue VanDreser, Marilyn VanOrder, Betsy Weinkauf, Carol Wendorf, Olive White, Jayne Winblad, Lynda Woehrer, Laurie Wunsch-Maegli, Noreen Zellner, Mary Zinda, Ron Zinda.

**Stratford:** Jane Hafenbredl, Helen Kratzer.

**Sturgeon Bay:** Nancy Gunnaugsson, Dean Hoegger.

**Suring:** Nels Jensen

**Tigerton:** Marsha Wittrock

**Tomah:** Cindy Zahrt

**Tomahawk:** Leneya Schwartz

**Verona:** David Otterson

**Watertown:** Alan Anderson, Ron LeRoy.

**Waukesha:** Beth Brown, Sue Klesewski.

**Waupaca:** Barb Blair, Sharon Cerne, John Cross, Patricia Cuellar, Julie DaWalt, Steve Elgersma, Lori Groshek, Frances Heckman, Pat Hunter, Kathy Hurt, Corrine Liebszeit, Lynda Luce, Debbie Martin, Mark Michel, Karen Olsen, Glen Parmalee, Mary Reed, Marilyn Shearer, Joan Taylor, Kay Tebo, Gregg Warren.

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Wendy Drew, Thomas Erdman, Falton Fischer, Jack Frederick, Ken Freitag, Ray Geweke, Karen Goetz, Mike Graham, Darwin Gregerson, Jim Grinsel, Jon Harkness, Patricia Hedblom, John Ihde, Mary Jarvis, David Johnson, Gary Johnson, Jim Johnson, Lowell Johnson, Mary Johnson, Faith Kettner, Jerry Kitzrow, Elaine Kolden, James Kraft, Lynn Lensmire, Ervin Mann, Dick Martin, Steve Martinsen, Steven Martinson, Dennis Maxinoski, Steve Miller, Suzan Miller, Dwight Nelson, Mary Olson, Sandra Olvey, Lois Osero, Henry Osswald, Carol Otto, Nancy Pankratz, Laura Place, Henry Pleuss, Jo Ellen Pophal, Carol Ray, Jon Rossmiller, Marge Roth, Penny Schmitt, Larry Schoch, Marian Seagren-Hall, Bill Smiley, Jane Soltau, Joan Stone, Helen Sween, Ellen Tietz, Joy Trollop, Greg Venne, Jane Weik, Steven Wermund, Darryl Westlund, Judy Wheeler, Pat Wisse, Michael Zeidler

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**West DePere:** Patti Jo Devillers

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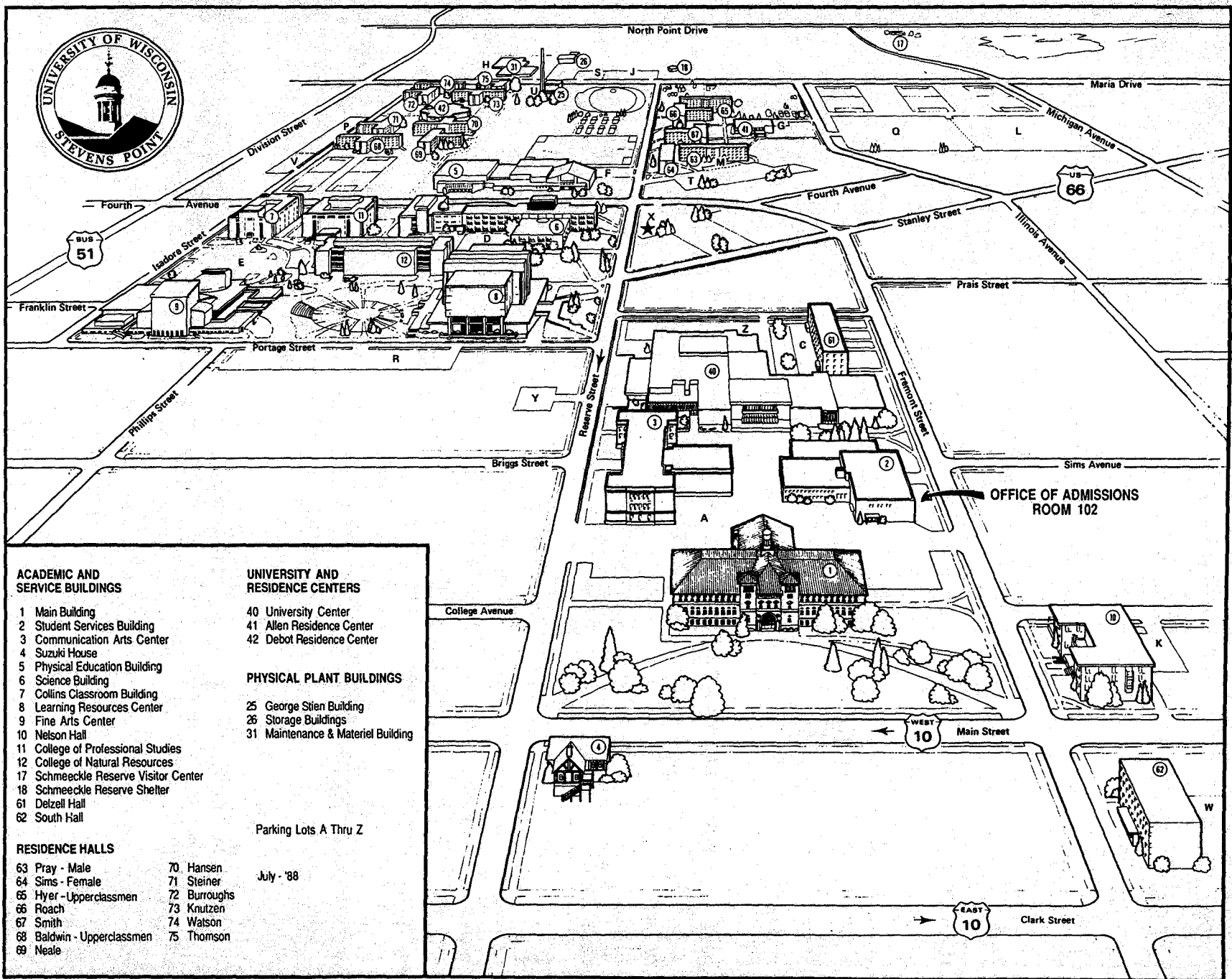
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**ACADEMIC AND SERVICE BUILDINGS**

- 1 Main Building
- 2 Student Services Building
- 3 Communication Arts Center
- 4 Suzuki House
- 5 Physical Education Building
- 6 Science Building
- 7 Collins Classroom Building
- 8 Learning Resources Center
- 9 Fine Arts Center
- 10 Nelson Hall
- 11 College of Professional Studies
- 12 College of Natural Resources
- 17 Schmeckle Reserve Visitor Center
- 18 Schmeckle Reserve Shelter
- 61 Delzell Hall
- 62 South Hall

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- 64 Sims - Female
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- 66 Roach
- 67 Smith
- 68 Baldwin - Upperclassmen
- 69 Neale
- 70 Hansen
- 71 Steiner
- 72 Burroughs
- 73 Knutzen
- 74 Watson
- 75 Thomson

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- 41 Allen Residence Center
- 42 Debot Residence Center

**PHYSICAL PLANT BUILDINGS**

- 25 George Stien Building
- 26 Storage Buildings
- 31 Maintenance & Materiel Building

Parking Lots A Thru Z

July '88

OFFICE OF ADMISSIONS  
ROOM 102

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# Calendar

<b>1991-92</b>	<b>1992-93</b>	<b>First Semester</b>
Sep 3	Sep 2	Classes begin
	Sep 7	Labor Day recess
Nov 27,10pm	Nov 25,10pm	Thanksgiving recess begins
Dec 2	Nov 30	Classes resume
Dec 13	Dec 15	Last day of classes
Dec 14	Dec 16	Study day
Dec 14	Dec 12	Commencement
Dec 16-21	Dec 17-22	Final exams
<b>1991-92</b>	<b>1992-93</b>	<b>Second Semester</b>
Jan 21	Jan 19	Classes begin
Mar 13,10pm	Mar 12,10pm	Spring recess begins
Mar 23	Mar 22	Classes resume
Apr 17,noon	Apr 9,noon	Easter recess begins
Apr 20	Apr 12	Classes resume
May 8	May 7	Last day of classes
May 9	May 8	Study day
May 11-16	May 10-15	Final exams
May 17	May 16	Commencement
<b>1991-92</b>	<b>1992-93</b>	<b>Summer Session</b>
May 26	May 24	Three-week session begins
Jun 15	Jun 14	Eight-week session begins
Jul 4	Jul 4-5	Holiday
Aug 5	Aug 4	Last day of classes
Aug 6-7	Aug 5-6	Final exams

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## Accreditation

The North Central Association of Colleges and Secondary Schools fully accredits the University of Wisconsin-Stevens Point to offer undergraduate college programs leading to the bachelor's degree and graduate programs leading to the master's degree.

Individual departments and programs within the University of Wisconsin-Stevens Point are also accredited by the:

American Chemical Society  
American Speech and Hearing Association  
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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