

University of Wisconsin Centers

1985-1987 Catalog



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*The University of Wisconsin Centers is accredited by the
North Central Association of Colleges and Schools.*

UW Centers



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Cover photo, UWC-Waukesha, by Dale Guldán

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How to use this catalog

Although you are enrolled at a specific campus, the Centers' policies and procedures are the same for students at each of the 13 campuses. This catalog provides you with an overview of admissions and financial aids procedures, academic regulations and programs at the UW Centers. If you read carefully, you will find what the institution can offer you as well as what is expected of you as a student.

Note that information on individual campuses, course offerings and directories of campus faculty and staff are included in a separate section of this catalog.

Assistance in developing your course of study and in planning for ease in transfer between the Centers and other institutions is available from a counselor in your campus' Office of Student Services. Your counselor can also refer you to faculty who can assist in planning your academic programs.

Additional information on activities, special programs and features of your Center is available from the Office of Student Services on your campus.

Your questions . . .

Q. What is a University of Wisconsin Center?

A. A UW Center offers freshman-sophomore level university instruction. Most students live in the community where the campus is located. There are thirteen Centers in rural and growing urban areas of the state.

Q. How do the Centers fit into the University of Wisconsin System?

A. The UW System has 15 institutional units; 13 four-year universities, UW Extension and the UW Centers with its 13 campuses.

Q. Am I eligible for admission?

A. Anyone who wants a college education and applies for admission to a UW Center will be considered for admission. If you graduated from high school or have a high school equivalent certificate such as G.E.D., your chances of being accepted are excellent. Centers campuses give special consideration to applicants who have been out of high school for more than two years and to veterans.

Q. How do I apply?

A. Applying is simple. Obtain an application blank from your high school guidance office or any UW admissions office and complete it, following the instructions on the form telling you where to send the completed application.

Q. Are financial aid funds, scholarships and part-time jobs available?

A. Yes, at all campuses. To find out which programs you qualify for, see the financial aids section of this catalog.

For information about scholarships, contact your local Centers campus.

Your campus Student Services Office also has information about both on- and off-campus jobs.

Q. What degrees can I earn at a Centers campus?

A. The UW Centers award an Associate of Arts or Associate of Science degrees when you successfully complete a prescribed program of study. (See the course requirements and planning guides in this catalog.)

An associate degree can be an advantage when you transfer to a four-year institution. Several colleges and universities in the state recognize the UW Centers associate degree as fulfilling basic studies or core curriculum requirements. These include Carroll College, Lakeland College, and the UW System campuses at La Crosse, Oshkosh, Platteville, River Falls, Whitewater and Superior.

Q. What special programs will I find at a Centers campus?

A. Many Centers campuses offer special programs for basic skills development and tutoring upon request. Several also offer an honors program for exceptional students. Check your local campus for details.

Q. Can I become involved in extra-curricular activities?

A. Definitely! Whether your interests are in student government, drama, music, athletics, outdoor activities, student publications or other student-related activities, you'll find them on all campuses.

Q. Will my credits transfer?

A. Yes. Credits earned at a UW Centers campus are University of Wisconsin credits and will transfer as University of Wisconsin credits to colleges and universities across the country. The UW Centers, as an institution, is fully accredited by the North Central Association of Colleges and Secondary Schools.

Q. Is housing available in communities where Centers are located?

A. Off-campus housing is available at every Centers location. On-campus housing is available at UWC-Marathon and at nearby private residence facilities at UWC-Marshfield/Wood and UWC-Barron.

Q. Will starting at a Center and then transferring to a four-year college be a disadvantage?

A. Studies by four-year campuses have shown that Centers students do very well when they transfer. In fact, many of them earn slightly higher grade point averages after transferring than they did as students at a Center.

Q. What kind of faculty will I find at the UW Centers?

A. UW Centers faculty are highly qualified and dedicated individuals whose main interest is teaching. Over 50% hold terminal degrees.

Q. Do the UW Centers offer vocational-technical college classes?

A. No vocational-technical classes are offered. The Centers offer a two-year liberal arts and pre-professional transfer program. Wisconsin has a well-developed system of vocational-technical schools. The two systems have different missions and goals and, therefore, different classes.

Q. Who do I contact if I have questions or would like to visit a campus?

A. If you have questions or wish to visit a particular campus, contact the Director of Student Services on the campus of your choice. Names, addresses and telephone numbers are included in this catalog.

University of Wisconsin System

Board of Regents

Ruth C. Clusen, Green Bay
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Obert J. Vattendahl, Milwaukee
Gerard E. Veneman, Port Edwards
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Business and Finance
To be Named, Vice President for
General Services
Ronald C. Bornstein, Vice President for
University Relations

UW Centers—Board of Visitors

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Roy F. Valitchka, Fox Valley
Gerald D. Viste, Marathon County
Joan M. Waite, Rock County

Introduction

A brief history

The University of Wisconsin Centers, as a unit of the University of Wisconsin System, serves the needs of freshman-sophomore students seeking quality education at a reasonable cost.

The 1972 merger of the University of Wisconsin and the State University System resulted in the present University of Wisconsin System. As a result, the campuses with their histories rooted in UW-Madison and UW-Extension, the satellite campuses of UW-Green Bay and the branch campuses of the former State University System became the UW Center System. In July 1983 the institution became the University of Wisconsin Centers. The UW Centers (UWC) is accredited by the North Central Association of Colleges and Schools.

Centers campuses are designed to provide the best possible services for all its students. All have access to the State Interlibrary Loan System, science laboratories, classrooms and lecture halls. Student recreational and meeting facilities are also available on each campus. All facilities have handicap access.

Centers structure

The executive dean is the chief executive officer of the UW Centers. The executive dean, whose office is in Madison, reports to the president of the University of Wisconsin. Assisting the executive dean in the operation of the Centers are the dean for academic affairs, the two associate deans for academic affairs, the assistant executive dean for administrative services, and their staffs.

In turn, each Centers campus is administered by a dean who reports to the executive dean. The Student Services staff is a vital part of each Center's administrative team. You will become familiar with the Student Services staff as they assist you in your academic, personal, career and financial aid counseling.

The Mission

I. The UW System Mission

The University of Wisconsin Centers share the mission of the University of Wisconsin System. That is to develop human resources, to discover and dis-



seminate 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 to 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.

II. The Core Mission

As part of the UW System, the University of Wisconsin Centers, composed of 13 two-year campuses, shares much of its core mission with other units of the System.

The UWC is entitled to offer associate degree level programs within the context of its role as a liberal arts, transfer institution.

The core mission is as follows:

(a) to meet the educational and personal development needs of students through effective teaching, academic advising, and counseling and through university-sponsored cultural, recreational, and extracurricular programs.

(b) to provide a first priority emphasis on teaching excellence.

(c) to provide a base of liberal studies necessary as the foundation for university arts and science degrees, as well as for specialized professional and occupational degrees.

(d) to support a commitment to scholarly activity integral to, and supportive of, institutional programs and teaching excellence.

(e) Meeting the off-campus instructional and continuing education needs of citizens in the campus service area (as appropriate to unique program capability) within the context of coordinated statewide planning of outreach programs.

(f) to provide public service to the surrounding region, both as a cultural center and a source of problem-solving support.

(g) to participate in regional consortia and inter-institutional relationships in order to maximize educational opportunity for the people of the area ef-

fectively and efficiently through the sharing of resources.

III. The Select Mission

The select mission of the UW Centers is to offer a quality, two-year liberal arts transfer program to make opportunities available to all qualified students, many of whom could not otherwise afford a university education. The physical facilities of the Centers have been constructed with taxes paid by the people of the counties and cities in which the Centers are located to deliver this instructional program and also to meet the educational and cultural needs of the people in their immediate service areas.

The select mission includes:

(a) commitment to the delivery of personalized education, with a special emphasis on teaching excellence.

(b) commitment to the development, testing, and use of more effective teaching methods in support of teaching excellence.

(c) planning and delivery of paraprofessional programs designed to meet the occupational needs of students and communities, in cooperation with the State Vocational, Technical and Adult Education System in ways consistent with statutory differentiation of the missions of the UW System and the state VTAE System.

(d) serving as educational centers, through which information and university programs are delivered (with the cooperation of other units of the university System) to the people of their immediate service areas as an integral part of the total University of Wisconsin System outreach effort.

(e) providing opportunities for cultural enrichment in their immediate service areas.

UW Centers Administrative Staff

Ratner, Lorman A. (1983)

Executive Dean

A.B., Harvard College

M.A., Cornell University

Ph.D., Cornell University

Kaplan, Arthur M. (1985)

Dean, Academic Affairs

B.A., University of Maine

M.A., Boston University

Ph.D., Cornell University

Kucera, Antone F. (1966)

Assistant Executive Dean, Administrative Services

B.A., Loras College (Iowa State University)

M.Ed., DePaul University

Lattin, Patricia H. (1984)

Associate Dean, Academic Affairs

B.S., Memphis State University

M.A., Memphis State University

Ph.D., University of Kentucky

Liechty, Thornton A. (1975)

Associate Dean, Academic Affairs

B.A., Haverford College

M.A., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Anhalt, James A. (1969)

Coordinator, Business Services

B.S., University of Wisconsin-Madison

Edlebeck, Daniel J. (1985)

Registrar

B.S., University of Wisconsin-Stevens Point

M.S., University of Wisconsin-Milwaukee

Hinz, JoAnn M. (1985)

Coordinator, Public Information

B.S., University of Wisconsin-River Falls

Admissions, Registration, Financial Aid



Admissions policy

Anyone who may benefit from college study is considered for admission to a Center.

The University of Wisconsin Centers provides educational opportunities for a full range of students. The special needs of each applicant are considered and the various campuses offer a number of special programs for students with outstanding academic potential. Special consideration is given to applicants who have been out of school for two or more years, to military veterans with at least 180 days of active duty and to students who are disadvantaged because of sub-standard education, family income or ethnic background.

Students at each campus include recent high school graduates, working adults and senior citizens. Some are there to earn degrees, some to better their career prospects and others to enrich their lives.

How to apply

To be considered for admission, you must submit a University of Wisconsin application form. You can obtain this application form from your high school guidance office or from a UW Center. Instructions for completing the form and where to send it are on the application.

A \$10 fee must accompany the application of prospective freshmen and transfer students from schools outside the University of Wisconsin System. Special students do not pay the application fee until they become degree candidates or matriculate.

Applications are accepted after October 1 for the following fall, spring semester or summer term.

High school students are encouraged to apply early in their senior year. Early applicants have an advantage in obtaining academic counseling, financial aids and their preferred schedule of courses.

Freshmen

Any student admitted to a University of Wisconsin Center must have ei-

ther a high school diploma or a GED Certificate. Applicants who fail to meet this requirement may appeal to the director of admissions at a local campus for an exemption.

Special programs and advising procedures may be instituted at Centers for students who are admitted and possess any of the following characteristics:

- 1) a GED certificate;
- 2) a rank in the lower 25% of their graduating high school class;
- 3) a high school transcript which does not meet the current Wisconsin requirements for graduation.

While these constitute the minimum requirements for admission to the UW Center, it is highly recommended that students currently in high school prepare themselves as well as possible in the following areas: composition, mathematics (with at least algebra and geometry), computer science, natural science, social science, and the humanities.

Students will be required to take placement exams prior to the completion of registration for certain courses. In addition, it is recommended but not required that students take either the American College Testing Program Assessment (ACT) or the Scholastic Aptitude Test (SAT) for use in academic advising, career planning and placement test interpretation.

Transfer students

If you attended another college before applying for admission to a Center, you must complete the same application form used by prospective freshmen and submit transcripts from your high school and all colleges you attended. If you maintained a "C" average each semester at your previous college(s), you will be admitted. If you had less than a 'C' average, the Center's academic regulations (probation, drop standards) will be used to determine your acceptance and probation status, if any.

You must submit official transcripts from all colleges attended even if you do not wish to claim credit for the work. Failure to do so could result in your being dismissed from the Center.

If you are a transfer student with less than a "C" average, particularly during

the last semester of attendance, you may be asked to meet the conditions outlined for new freshmen ranking in the lower 25 percent of their high school class.

If you are a transfer student and are applying for financial aid, refer to the financial aid section of the catalog for application procedures. If you previously received financial aid while attending another institution you must file a Transfer Student Financial Aid Record form. These are available from any campus financial aid office.

Returning students

If you weren't enrolled at a Center the previous semester you must file an application for admission form and submit official transcripts of any college work attempted since you were last enrolled at a Center. If you were dropped or suspended at the close of your last semester of enrollment at the Center you must seek permission from the Office of Student Services to re-enter.

Foreign students

The admissions requirements outlined in the catalog do not apply to students who are not residents of the United States. Foreign applicants are admitted on the basis of scholastic ability as demonstrated by school records and certificates and on their ability to use and understand the English language. Foreign applicants must also provide proof of their ability to pay all their expenses while they are students.

All enrolled foreign students may be required to carry health insurance or show comparable coverage for medical expenses.

Special students

High school students: High school students, especially seniors, who want to enroll in courses before graduation may take the courses for credit or audit. However, they must file the standard applications for admission form. They must also have the recommendation of their high school principal. Any credits and grades earned by high school students are part of their official records

and are fully accredited, transferable UW credits.

"Special students:" Anyone may enroll as a "special student" for up to six credits of course work without submitting previous educational records. "Special students" must submit educational records after completing six hours of course work before they will be permitted to enroll in additional courses. If the student wishes to continue taking courses, a University of Wisconsin application form must be submitted. Exceptions may be made for "special students" who are not seeking a degree.

Auditors: The UW Centers encourages adults to audit courses. All auditors should have approval from the instructor teaching the course. Approval is usually granted unless admitting auditors will increase the classroom space requirements or costs of instruction. Wisconsin residents who are 62 years old or older or who are disabled and receiving federal old age survivors and disability insurance benefits (OASDI) may audit courses without charge if this will not result in additional laboratory or instructional costs.

Adults: The Centers encourages adults to apply for admission, whether you wish to work for a degree, audit courses or simply take a few courses. In 1985, over 30 percent of the students in the institution were 25 or older. The adult enrollment varies from Center to Center but all the campuses have adult students in class.

Credit by examination

You may establish credit for specific courses by taking an examination. Those courses are determined by the department and a standard examination is used. Credits earned by examination will be recorded on your transcript as such and grades will not be assigned to those courses. If you fail the examination, that failure will not appear on your transcript. Additional information on earning credits by examination is available from your campus Office of Student Services.

Some departments have specific policies regarding credit by examination. If you are interested in earning credit for courses other than those listed below, consult an instructor in the department or the Office of Student Services.

Art Department: You may submit portfolios to establish credit in studio-type courses.

Biology Department: You may take a challenge examination in any course offered by the department. If you wish to establish credit by examination, contact a faculty member. The examination may be requested at any time during the semester. If you pass the examination, you will receive credit equal to the credit for which the course is offered. For example, if you successfully challenge Botany 130, you will receive five credits for the class.

You may receive five credits for BIO 151 if you score four or five on the Biology Exam of the Advanced Placement Program of the College Board. If you earn a grade of five, six or seven on the Higher Level Biology Examination of the International Baccalaureate program, you will receive five credits of BIO 151. If you earn a grade of four on the IB exam you won't receive credit but you may earn advanced placement by taking a departmental attainment exam.

Business Department: You may earn four credits in BUS 201 by scoring at or above the 50th percentile on the CLEP Subject Examination in Introductory Accounting.

English Department: You may earn credit by examination in the following courses:

ENG 102, by scoring at or above the 50th percentile on the 90-minute multiple-choice objective section *and* by earning a satisfactory grade (C or better) on the 90-minute essay section of the CLEP Subject Examination in College Composition, *and* by submitting a satisfactory documented essay of at least four pages.

ENG 202, by earning a score of six or seven on the Higher Level International Baccalaureate examination in Language A (English 1B).

ENG 250, by scoring at or above the 70th percentile on the 90-minute multiple-choice objective section *and*

—by earning a satisfactory grade (C or better) on the 90-minute essay section of the CLEP Subject Examination in Analysis and Interpretation of Literature *or*

—by scoring at least four on the Advanced Placement College Board Examination in English: Composition and Literature *or*

—by earning a score of five, six, or seven on the Higher Level International Baccalaureate examination.

ENG 201, by scoring at or above the 60th percentile on the 90-minute multiple-choice objective section *and* by earning a satisfactory grade (C or better) on the 90-minute essay section of the CLEP Subject Examination in College Composition *and* by the submitting of a satisfactory documented paper of six to eight pages.

ENG 270, by scoring at or above the 50th percentile on the 90-minute multiple-choice objective section *and* by earning a satisfactory grade (C or better) on the 90-minute essay section of the CLEP Subject Examination in English Literature.

ENG 272, by scoring at or above the 50th percentile on the 90-minute multiple-choice objective section *and* by earning a satisfactory grade (C or better) on the 90-minute essay section of the CLEP Subject Examination in American Literature.

ENG 280, by scoring at or above the 50th percentile on the 90-minute multiple-choice objective section *and* by earning a satisfactory grade (C or better) on the 90-minute essay section of the ACT/PEP Examination in Shakespeare.

Foreign Language Department: (*French, German, Spanish*) You may earn credits for the elementary and intermediate courses (*101, 102, 201, 202*) lower than the first course you complete at your Center *if* you complete that course with a grade of B or better. This policy is strictly enforced; a B- is not acceptable. You may earn a maximum of 16 foreign language credits in this manner. If you wish to earn credits by this method, contact the appropriate instructor at the beginning of the semester.

You may also earn foreign language credit by taking the appropriate CLEP exam and placing in the 90th percentile or above. Before credit is granted, you also *must* have an interview with a Center instructor. You may earn a maximum of eight credits for *101 and 102* course by CLEP exam.

If you wish to earn credit by examination in other foreign language courses you must contact the appropriate instructor at the Center.

Geography Department: You may be granted three credits for *GEO 110* by earning a score of five, six or seven on the geography examination of the Higher Level International Baccalaureate program.

History Department: You may earn six credits in *HIS 101 and 102* (United States History) by achieving a score of four or five on the Advanced Placement College Board Examination in U.S. History. With a score of five, six or seven on the Higher Level International Baccalaureate examination, you may also earn six credits in Modern History.

Mathematics Department: You may earn credit for *MAT 221* by passing a department exam and then completing *MAT 222* with a grade of C or better. A grade of C- is not acceptable. To earn credit by exam, contact a mathematics instructor.

If you take the Advanced Placement Calculus AB exam you may receive five credits for *MAT 221* if you receive a score of three, four or five.

You can earn 10 credits for *MAT 221 and 222* if you take the Advanced Placement Calculus BC exam and score three, four or five.

If you receive a score of two on the BC exam you will receive five credits for *MAT 221*.

College Level Examination Program

You may earn degree credits by taking the College Level Examination Program (CLEP) General Examinations. These tests, offered by the College Entrance Examination Board, must be taken before you complete your first 16

college credits. Credit will be awarded, as indicated below, when you score at or above the 50th percentile on established national sophomore CLEP norms.

1. You may earn no more than six credits for the humanities section of the general exam.
2. You may earn a maximum of six credit for the social science section of the general exam.
3. You may earn no more than six credits for the natural science section of the general exam. This does not satisfy the lab science requirement for an associate degree.

You will receive no credit for the English or math sections of the CLEP general exam. Nor will you receive credit in any area in which you completed a college course before taking the exam. Any credits earned by taking the CLEP general exam will be recorded as such on your transcript.

Resident status for tuition purposes

Regulations determining residency status for University of Wisconsin admission and tuition are in the Wisconsin Statutes. You are classified as a resident or non-resident when you are admitted to the UW System.

If you do not qualify as a resident of Wisconsin, you must pay non-resident fees in addition to the fees charged Wisconsin residents. (For tuition purposes, residency regulations differ from those established for voting, paying taxes, etc.)

If you are a Minnesota resident, you may qualify for in-state tuition by applying to the Minnesota Higher Education Coordinating Commission, Suite 400, Capitol Square, 550 Cedar St., St. Paul, Minn. 55101.

If you are classified as a non-resident for tuition purposes and feel that classification is incorrect, contact the Office of Student Services.

Registration

Registration is the process of enrolling in courses each semester. An advisor will help you select classes to fit your individual course of study.

While registration may be scheduled several months before the actual beginning of classes, each Center has a registration period the week before the beginning of classes. Specific information on the time, places and dates of registration is available from your campus Office of Student Services.

If you complete a registration form, you *are* registered whether or not you pay fees and tuition or attend classes. Once you are registered, if you want to withdraw, you *must* complete a withdrawal form as explained in this catalog. Failure to officially withdraw and failure to pay your fees will result in your being administratively withdrawn from the Center. But administrative withdrawal does not end your obligation to pay your fees. Failure to pay the fees may bar you from registration in the future. The amount of fees owed is determined by the fee policy established by the Regents of the University of Wisconsin.

Registration hold policy

If you owe the University a fine, money, materials or are delinquent on payment of a loan obtained through a University Financial Aid Office, a "hold" may be placed on your records. That may prohibit you from registering in the future and will prevent issuance of your transcript.

Concurrent registration

You may enroll in courses at more than one Center, at a Center and a four-year campus of the UW System, or take courses through a Center and UW Extension.

As a Centers student, you may enroll in an independent study (correspondence course) through UW Extension if the course is not offered at your Center *and* if the Extension Independent Study catalog indicates the course is offered

for college credit or if the course is high school level algebra or geometry. As a full-time student, you may take an Extension course at no extra cost other than any fees for text materials bought through Extension and a small registration fee. Contact the Office of Student Services for an independent study list and appropriate forms. You should register for independent study courses before the beginning of classes or during the first week.

If you enroll at more than one UW campus, the number of credits you take is combined to determine your status, either full or part-time, and your fee and tuition assessment. You must present proof of fees paid and course and credits being taken. If you are enrolled full-time in one institution, no additional fees will be assessed by a second campus. If you are not enrolled full-time at the first campus, the second campus will charge a per-credit rate until the full-time tuition rate is reached. The full-time rate will not be less than the lowest, nor more than the highest, full-time rate of the campuses involved. You may combine Extension credits with Center credits when determining fees and tuition charges.

Costs*

Academic tuition is set by the UW Board of Regents. Segregated or stu-

dent fees are set by the campus and approved by the Board of Regents. For Wisconsin residents, the 1985-86 tuition and fees range from \$551 to \$594 per semester for 12 or more credits and \$1801-\$1845 per semester for non-residents. If you carry 11 or less credits, tuition and fees range from \$46-\$49 per credit for residents and from \$150-\$153 per credit for non-residents. Contact your Office of Student Services for specific information.

***Tuition and fees are subject to change without notice.**

Tuition and fees late payment

All tuition and fees are paid when you register or no later than the end of the first week of classes. Your transcript, certified or not, will not be issued until all accounts receivable have been paid.

If you pay your fees after the end of the first week of classes and were not granted a fee deferral, you will be assessed a mandatory administrative services charge in addition to your regular fees.

The following assessment rate will be charged:

Full-time students will pay a \$20 administrative services charge for tuition

and fees paid the second week of classes and a \$30 charge for the third week. If your tuition and fees have not been paid by the fourth week of classes and you don't have a payment deferral, you will be assessed a \$30 administrative services charge in addition to the tuition and fees you owe and your registration will be cancelled.

Part-time students pay a pro-rated administrative services charge according to the following schedule:

	Payment in 2nd week of classes	Payment in 3rd and 4th week
1-4 cr.	\$ 5.00	\$ 7.00
5-7 cr.	\$10.00	\$14.00
8-11 cr.	\$15.00	\$21.00

If your tuition and fees are not paid by the fourth week of classes and you do not have a payment deferral, you will be assessed the maximum administrative services charge in addition to the tuition and fees you owe and your registration will be cancelled.

Dishonored checks carry a \$5.00 charge.

Official transcript cost \$2.00 for each copy.

Refunds for withdrawals

You must withdraw through the Office of Student Services at your campus to establish your official date of withdrawal. That date will be used to calculate any fees you must pay, any repayments of financial aid you must make or any refunds due you.

Fee and tuition refunds will be made according to the following schedule:

Before or during first week of classes	100% refund
Second week of classes	80% refund
Third week of classes	60% refund
Fourth week of classes	40% refund
After fourth week of classes	No refund

If fees have not been paid before withdrawal, cancellation or dropping of credits, the payment schedule will be as follows:

First week of classes	No charge
Second week of classes	\$20 plus 20% of original fee
Third week of classes	\$30 plus 40% of original fee
Fourth week of classes	\$30 plus 60% of original fee
After fourth week of classes	\$30 plus full fee

Financial aid

The UW Centers has a comprehensive financial aids program to assist you if your personal and family resources are

not adequate to meet the cost of college. Counseling is available at each campus to help you manage your money and to provide you information on sources of financial assistance.

Eligibility for aid

To be eligible for financial aid you must meet the following criteria.

1. You must be a United States citizen or be a permanent resident of the U.S. Foreign students are ineligible for aid.
2. To be considered for all types of financial aid, you have to be enrolled in at least 12 credits. If you carry less than 12 credits you may still be eligible for aid. However, since most financial aid programs are need-based, you might be judged to have less need than a full-time student due to earnings from a part-time job, etc.
3. You must demonstrate financial need. There may be an exception made for recipients of Guaranteed Student Loans.
4. You may not have defaulted on any educational loan or owe on any repayment of previous aid.
5. You must maintain satisfactory academic progress as outlined in the section of this catalog titled Satisfactory Progress for Financial Aid Eligibility.
6. You must carry at least six credits per semester.

If you already have a baccalaureate degree you are not eligible for grant funds but you are eligible for loans or the work-study program.



When and how to apply for financial aid

Incoming freshmen

You must submit a UW System Application for Admission form and indicate in the appropriate section that you wish to apply for financial aid. The form is available from your high school guidance office and from all UW campuses. *The form must be filed after October 1 and before March 1 if possible.*

(Continue the checklist below under "All Students")

Continuing, transfer, re-entering and self-supporting students

File the UW Centers Financial Aids Application *after January 1 and before March 1* if possible.

If you are a transfer student, file a financial aid transcript, available from all UW campus financial aid offices, for each postsecondary educational institution you attended. These transcripts *must be on file with the Financial Aid Office before you receive your aid.*

(Continue the checklist below under "All Students")

All students

File a need analysis form, either the FAF or the FFS. These forms are available from high school guidance offices and all college financial aid offices. If you are a Wisconsin resident, be sure to indicate on the form that you wish to apply for a Pell Grant and the Wisconsin Higher Education Grant.

Submit the Student Aid Report (SAR) to your campus Student Services Office. Approximately six (6) weeks after filing the need analysis form the U.S. Department of Education will send you the SAR. Even if the SAR indicates you are ineligible for a Pell Grant, it must be submitted to the campus Student Services Office.

You must apply for financial aid each year. Awards are transferable *only* to other UW Centers. Eligibility does not carry over from year to year.

How awards are calculated

All awards, except the Guaranteed Student Loans, are made by the Centers' Financial Aid Office on the basis of need. Need is defined as the difference between the actual cost of an academic year of college and the amount you and your family can reasonably contribute to the cost. The determination of your need is based on the information provided on your need analysis form.

A detailed explanation of the formula used is outlined in **Meeting College Costs**, a pamphlet published by the College

Scholarship Service and available from your high school guidance offices.

To determine need, the total of the resources available to you is subtracted from your projected expenses. The cost is uniform to assure a fair and reasonable distribution of funds. If there are sufficient funds, the total financial aid award will equal your calculated need. While individual expenses will vary, the awards for the 1985-86 academic year are based on the estimates used in Table A.

TABLE A

Dependent Student Budgets	Living with parents	Living away from parents
Tuition Estimates (Non-residents, see below)	\$ 1110	\$ 1110
Books	250	250
Transportation	600	440
Room & Board	1100	2625
Miscellaneous	<u>770</u>	<u>1070</u>
Total Budget	\$ 3830	\$ 5530

Non-residents add approximately \$2500 to the tuition costs.

Costs for 1986-87 can be estimated by multiplying the total figures in Table A by 1.06.

Sample Case

Four member family with one parent working.

1984 Total Income	\$20,000	
Total Equity in Assets	20,000	
Parents' Expected Contribution		\$700.00
Student's Expected Contribution		<u>+ 700.00</u> (for freshmen)
Family Contribution		\$1400.00

Student living with parents	Student living away from parents	
Budget (From Table A)	\$3830	\$5530
Expected Family Contribution	<u>- 1400</u>	<u>- 1400</u>
Calculated Need	\$2430	\$4130

Every effort is made to offer you sufficient aid to cover estimated costs. Exceptions are made in cases of extreme need. Such cases usually involve self-supporting student or students who have exhausted eligibility in certain aid programs.

You may be offered a combination of grants (gift aid), loans and work-study to cover your projected need. If possible, you will be offered a choice between work-study and a loan. The packaging policies are established to give you the best combination of available aid.

Since funding levels vary from year to year, the following samples are merely estimates of possible 1985-86 awards.

	Student living with parents	Student living away from parents
Budget (From Table A)	\$3830	\$5530
Family Contribution (From Sample Case)	<u>- 1400</u>	<u>- 1400</u>
Need (From Sample Case)	\$2430	\$4130
Award:		
Grant Aid:	\$1440	\$1810
Loan or Work:	<u>+ 800</u>	<u>+ 1800</u>
Total Award:	\$2430	\$4130

Although you obviously may qualify for more total aid if you don't live with your parents, you also have more expenses if you don't live at home. If you live at home your parents bear the expenses of housing and food and possibly some miscellaneous costs. You must also consider the fact that even though you may receive a larger award, you will also have a larger loan to repay and/or work-study money which must be earned.

Sources of financial aid

Grants are based only on financial need and don't require repayment. Pell Grants are federal awards ranging from \$200 to \$2100 annually, depending on need and the federal funds available.

Supplemental Education Opportunity Grants (SEOG) range from \$200 to \$2000 annually for students with extreme financial need.

Wisconsin Higher Education Grants (WHEG) for Wisconsin residents range from \$200 to \$1800 depending on need.

Scholarships are gifts from community and private sources. No repayment is required. Contact your high school counselor and your Center Student Services Office for information on available scholarships.

Loans are low-interest awards which must be repaid after you graduate or discontinue study.

National Direct Student Loans (NDSL) provide federal funds ranging from \$100 to \$3000 annually for undergraduates up to a maximum of \$2500 for the first two years of study. You must be enrolled half-time to qualify. Interest does not accrue on your loan until you begin repayment six months after you graduate, leave school or are enrolled less than half-time. The interest rate is five percent (5%) simple interest annually. Repayment postponement and/or cancellation is restricted to limited types of employment after graduation.

The following chart outlines a sample repayment and interest charge schedule. Principal up to \$1800 borrowed may be repaid at the rate of one-tenth (1/10) of the principal per year for the 10 year repayment period or at a rate of \$45 per quarter plus five percent (5%) annual interest. Since the interest is figured on the unpaid balance, quarterly payments decrease as the unpaid balance is reduced.

	PRINCIPAL AMOUNT BORROWED		
	\$1000	\$1800	\$3000
Annual Repayment			
Amount Range	\$136-104	\$252-187	\$420-324
Number of Quarterly Payments	40	40	40
	10 years	10 years	10 years
Total Interest Paid	\$220	\$396	\$660
Total Amount Repaid	\$1220	\$2196	\$3660

Guaranteed Student Loans (GSL) are federal loans through local banks and other lending agencies. Undergraduates may borrow up to \$2500 annually and a maximum of \$12,500.

The eight percent (8%) annual interest doesn't accrue, nor does repayment begin, until you are no longer enrolled at least half-time. The State of Wisconsin will act as lender if you are a Wisconsin resident and have been denied a loan by a private lender or can't find a lender. Contact your campus financial aid officer for more information.

If you applying for need-based aid, *do not* apply for a GSL until your need analysis form is processed and you are notified of your eligibility for other aid. Applying for the GSL first could disqualify you from receiving some other aids.

Employment

Work-Study is a federal program which offers part-time employment to financially needy students. Recipients may be employed either on- or off-campus by non-profit agencies. You are responsible for contacting the Student Services Office to secure a job and must earn the amount of award offered.

Regular Student Payroll jobs are available on campus. Contact the Student Services Office for more information. You may or may not be hired on the basis of need, depending on the types of jobs and the funds available.

Other aid programs

Indian Aid grants from the Bureau of Indian Affairs and the State of Wisconsin are available to you if are at least one-quarter (1/4) Native American and can demonstrate need. Applications are available from your high school counselors or the campus Office of Student Services.

Vocational Rehabilitation grants from the Department of Vocational Rehabilitation may be available to physically and mentally handicapped students. Contact your local Department of Vocational Rehabilitation office for more information.

Veterans' Benefits are available to all qualified veterans enrolled at UW System campuses. For information, contact the Veterans' Administration regional office in Milwaukee or your campus Student Services Office.

Aid to Families with Dependent Children (AFDC) may be available if you are divorced or separated and have dependent children or if your spouse is not providing support. Contact your County Social Services Office for information. If you are a student under age 18 and your parents meet the above criteria contact the Social Services Office for more information.

Repayment of financial aid

If you receive financial aid and withdraw from the University, you must repay any awards (loan and/or grants) you received for the semester during which you withdrew in the following manner.

1. The following will be deducted from your original cash award (loan and/or grant) received from the Financial Aid Office:
 - a. fees and tuition with any fee refund going directly to the appropriate aid fund.
 - b. non-institutional costs (books, transportation, room and board) you incur up to and including the week of withdrawal.
2. You must repay the remaining balance during the semester in which you withdrew or make arrangements satisfactory with the Student Financial Aids Office. Failure to do one of the two will result in a "hold" being place on your records. You will not be eligible for future aid until repayment has been made.

If you plan to withdraw and have received financial aid, you should discuss repayment with your campus financial aid officer.

Satisfactory progress for financial aid eligibility

In addition to the academic standards of the UW Centers, you must maintain satisfactory progress according to the standards listed below if you wish to retain your financial aid eligibility. Your entire academic record at the Centers, including semesters for which you did not receive financial aid, will be evaluated to determine your eligibility.

- 1. If you are enrolled for six (6) credits or more in a semester, you may receive aid for up to five (5) academic years (10 semesters). If you are enrolled in fewer than six (6) credits, you are ineligible for aid and will not be evaluated for semesters during which you are enrolled for fewer than six (6) credits.
- 2. You *must* meet the following academic standards for each academic year. Since an academic year is two consecutive semesters of enrollment, your progress will be measured at the end of each even numbered semester by the following schedule:

Academic years completed	1	2	3	4	5
Number of credits successfully completed	12	24	36	48	60

- 3. If you are do not earn the minimum number of credits per semester as outlined above, you will be ineligible to receive aid.
- 4. Your eligibility may be reinstated at the end of any semester in which you earn enough credits to satisfy the minimum requirements of the following schedule:

Semester years completed	3	4	5	6	7	8	9	10
Number of credits successfully completed	18	24	30	36	42	48	54	60

- 5. Any remedial courses you take will count as both total credits attempted and as total credit earned.
- 6. Any courses you repeat will be considered credits attempted but will count only once for credits earned.
- 7. Audit courses will not be counted. Any courses you change from credit to audit will be considered as courses which you have dropped or failed.
- 8. If you receive an incomplete grade in a course, the credits will not be counted until the incomplete grade is removed.
- 9. You may use summer sessions to earn credits which will meet the necessary requirements.
- 10.If you lose your financial aid for failing to meet these requirements, you may appeal the decision to the designated committee. The committee *may* rule in your favor if it finds mitigating circumstances warrant it.

Veterans obligations

The UW Centers, in compliance with Veterans Administration regulations, adopted the following procedures for notifying the VA of the academic progress of any recipient of G.I. Bill benefits.

If you receive G.I. Bill benefits, the VA will be notified within 30 days of any change in your attendance. You *must* notify your campus Student Services Office of any program change which will affect your benefits. If you fail to notify the Student Services Office that you dropped a course or courses and the end-of-semester grade report shows non-attendance, the office will check with your instructors to determine the last day you attended class. If the instructor's records do not provide the required information, the office will require a statement from you. End-of-semester grade reports will be checked if you have more than one Incomplete or Fail grade. The VA does not use audited courses to determine full-time enrollment. The VA will be notified if you withdraw or if a change in your enrollment will affect your benefits.

If you are on academic probation, the VA will also be notified if your "cumulative," or overall, average grade is less than "C" at the end of the semester. If you have enrolled in a Credit/No Credit course, the actual grade you receive will be used to compute your grade point average. In some cases VA regulations will not allow you to repeat a course and receive benefits based on that repeat course. A repeat course can not be used to determine eligibility for benefits for full-time enrollment. The campus will notify the VA if you receive failing grades in all courses during a semester.

These procedures will be followed for all recipients of G.I. Bill and VEAP benefits. It is possible for you to continue to be enrolled at your campus even though your academic progress does not allow you to continue to receive VA benefits.

Degree Requirements, Transfer Procedures



Associate Degree

Each UW Centers campus offers an Associate of Arts or Associate of Science Degree after you complete a prescribed curriculum. The degrees are conferred by the authority of the University of Wisconsin Board of Regents.

The requirements outlined in this catalog apply to all students who enrolled for the first time in the fall of 1981. If you enrolled before fall 1981 you may fulfill either these requirements or those outlined in the 1979-81 catalog.

General requirements for the Associate of Arts and Associate of Science Degree:

1. A minimum of 60 credits is required.
2. At least 15 of those 60 credits must be completed at a Centers campus.
3. You must have a cumulative grade point average (GPA) of 2.0 earned at the campus and 2.0 overall GPA in the credits applied to your degree.
4. You must be enrolled at the campus awarding the degree during the semester in which you complete your degree requirements.

You may elect to receive either the Associate of Arts or the Associate of Science Degree. There are no provisions for you to receive both degrees.

Pass/Fail courses may not be used to fulfill specific degree requirements in English, mathematics, laboratory science, social science or humanities. You may enroll in pass/fail courses as electives to accumulate a total of 60 credits.

All credits earned at a Centers campus, transfer credits accepted by a Centers campus or credits earned by examination can be counted toward your degree requirements.



Associate of Arts Degree course requirements and planning guide:

Requirements	Done	To Do
1. English. Three (3) credits in English composition at the English 102 level or above. The prerequisite for ENG 102 is ENG 101, or sufficiently high placement test scores, or consent of the campus English faculty based on demonstrated writing ability. If you are required to take ENG 101 before ENG 102 you may count the credits in ENG 101 as elective credits.		
2. Mathematics and Laboratory Science. A minimum of eight (8) credits. You must enroll in a minimum of one (1) course for credit in each area. All mathematics courses numbered 100 or higher count toward the mathematics requirement. The requirement is waived if you qualify to enter first semester calculus. If mathematics is waived, a minimum of eight (8) credits is still required in mathematics and laboratory science.		
3. Social Sciences. A minimum of nine (9) credits in courses from at least two disciplines.		
4. Humanities. A minimum of 12 credits in courses from at least two (2) disciplines. Three (3) of these credits must be in literature. Courses listed in the catalog carrying the designation HU/LI will count toward the literature requirement.		
5. Elective. Meeting the minimum requirements in Items 1-4 above totals 32 credits. The remaining credits necessary to reach a total of 60 may be selected from additional courses in mathematics, laboratory science, social sciences and humanities and/or courses listed in the elective area.		

Course designation for Associate Degree purposes are those of the UW Centers and do not necessarily coincide with designations at four-year campuses. Students should contact the Centers campus Office of Student Services to determine how a particular course will be treated in satisfying requirements at another college or university.

Elective courses may be selected to satisfy foundation requirements for an intended major or pre-professional field. Consult an advisor.

Associate of Science Degree course requirements and planning guide:

Requirements	Done	To Do
1. English. Three (3) credits in English Composition at the English 102 level or above. The prerequisite for Eng. 102 is Eng. 101, or sufficiently high placement test scores, or consent of the campus English faculty based on demonstrated writing ability. Students who are required to take Eng. 101 before Eng. 102 may count the credits in Eng. 101 as elective credits.		
2. Mathematics and Laboratory Science. A minimum of 14 credits. A minimum of one (1) course for credit in each. All mathematics courses numbered 105 or higher count toward the mathematics requirement. The mathematics requirement is waived for those students qualified to enter first semester calculus. If mathematics is waived, 14 credits minimum is still required in the mathematics and laboratory science areas.		
3. Social Sciences. A minimum of six (6) credits.		
4. Humanities. Minimum of nine (9) credits from at least two (2) disciplines. Three (3) of these credits must be in literature. (Courses carrying the designation HU/LI will be counted toward the satisfaction of the literature requirement.)		
5. Electives. Meeting the minimum requirements in items 1-4, above, totals 32 credits. The remaining credits necessary to reach a total of 60 may be selected from additional courses in mathematics, laboratory science, social sciences, and humanities, and/or courses listed in the elective area.		

Course designations for Associate Degree purposes are those of the UW Centers and does not necessarily coincide with designations at four-year campuses. Students should contact the Center Office of Student Services to determine how a particular course will be treated in satisfying requirements at another college or university.

Elective courses may be selected to satisfy foundation requirements for an intended major or pre-professional field. Consult with an advisor.

Centers Associate Degree course designations

In order to fulfill requirements for the Associate Degrees, you must take courses in English, mathematics, laboratory sciences, social sciences, humanities and electives and/or service courses.

The following list indicates which courses in each academic department are social sciences, humanities, etc. For instance, if you are looking for a course which meets the humanities requirement, look for the word "Humanities" following the department heading. The numbers on that line are the course numbers. The corresponding course titles and descriptions are found in the Course Descriptions portion of this catalog.

DEPARTMENTS

ANTHROPOLOGY

Social Sciences: 100, 102, 105 (3 cr.), 200, 204, 222, 250, 291, 293, 299, 302, 304-3, 308, 314, 322, 325, 330, 341, 343, 349, 351, 353, 370, 400, 440, 450, 470, 545, 570 *Lab Sciences:* 105 (4 cr.), 106, 303, 304, 311, 370, 408 *Humanities:* 301

ART

Humanities: 171, 181, 183, 185, 187, 188 *Electives and/or Service Courses:* 101, 102, 103, 111, 112, 113, 121, 131, 141, 151, 161, 173, 191, 192, 193, 201, 202, 211, 212, 219, 221, 222, 223, 224, 229, 231, 232, 239, 241, 243, 245, 247, 249, 251, 252, 253, 254, 259, 269, 279, 289

ASTRONOMY

Lab Sciences: 100 (4 cr.), 101, 200 *Electives and/or Service Courses:* 100, 291*

BIOLOGICAL SCIENCES

BACTERIOLOGY

Lab Sciences: 101 *Electives and/or Service Courses:* 299*

BIOLOGY

Lab Sciences: 109, 151, 152, 250, 260 *Electives and/or Service Courses:* 107, 116, 160

BOTANY

Lab Sciences: 100, 130, 231, 400, 450 *Electives and/or Service Courses:* 240, 291*, 299*

NATURAL RESOURCES

Lab Science: FOR 120, WIL 140 *Elective and/or Service Courses:* NAT 170

PHYSIOLOGY

Lab Science: 104, 170, 202, 203, 235

ZOOLOGY

Lab Science: 101, 103, 140, 170, 234, 235, 237, 277, 430, 516 *Electives and/or Service Courses:* 105, 155, 203, 291*, 299*, 505, 515

BUSINESS

Elective and/or Service Courses: All courses

CHEMISTRY

Lab Science: 124, 125, 145, 155, 203, 211, 244, 343, 352 *Electives and/or Service Courses:* 100, 203, 214, 233, 272, 290*, 299*, 343, 363

COMMUNICATION ARTS

Humanities: 130, 150, 160, 230, 232, 266, 267, 268, 348, 349 *Social Sciences:* 201 *Electives and/or Service Courses:* 100, 101, 102, 103, 110, 131, 202, 203, 204, 205, 220, 221, 234, 298*, 299*

COMPUTER SCIENCE

Electives and/or Service Courses: All courses

ECONOMICS

Social Sciences: 101, 203, 204, 230, 250, 271 *Electives and/or Service Courses:* 243, 297*, 299*

EDUCATION

Electives and/or Service Courses: All courses

ENGINEERING

Lab Science: MEC 203 *Electives and/or Service Courses:* EGR 100, 106; GRA 102, 113; MEC 201, 202

ENGLISH

Humanities: 220 *Humanities/Literature:* 250, 260, 261, 262, 263, 264, 265, 266, 267, 270, 272, 274, 276, 280, 290, 351, 353, 355, 370, 380 *Required Courses:* 101, 102 *Electives and/or Service Courses:* 202, 201, 203, 204, 210, 299*

FOREIGN LANGUAGE

FRENCH

Humanities: 202, 215, 219, 225, 226 *Humanities/Literature:* 221, 222, 223, 275, 276, 277, 291*, 299* *Electives:* 101, 102, 118, 119, 201

GERMAN

Humanities: 202, 215, 216, 219, 225, 226 *Humanities/Literature:* 221, 222, 275, 276, 277, 291*, 299* *Electives:* 101, 102, 118, 119, 201

SPANISH

Humanities: 202, 219, 225, 226, 236 *Humanities/Literature:* 221, 222, 266, 275, 277, 291*, 299* *Electives:* 101, 102, 118, 119, 201

GEOGRAPHY

Social Sciences: 101, 110, 115, 277, 297, 300, 324, 341, 342, 347, 348, 349, 350 *Lab Sciences:* 120, 123, 124, 130 (4 cr.) *Electives and/or Service Courses:* 121, 125, 130 (3 cr.), 291*, 299*

GEOLOGY/METEOROLOGY

Lab Sciences: 101, 102, 104 (4 cr.), 130, 131, 169, 301, 302, 314, MGL 100 (4 cr.) *Electives and/or Service Courses:* 100, 135, 228, 291*, 297*, 299*, 316, 350, 409, 414, 443; MGL 100 (2-3 cr.), 104 (3 cr.)

HISTORY

Humanities: 111, 112, 115 *Humanities/Social Science:* 101, 102, 105, 106, 110, 114, 115, 116, 117, 118, 119, 120, 121, 123, 124, 126, 127, 128, 150, 178, 183, 185, 186, 190, 195, 197, 198, 203, 211, 213, 215, 216, 219, 221, 222, 223, 225, 254, 255, 256, 257, 259, 260, 270, 278, 280, 283, 285, 286, 288, 289, 290, 291, 293, 295, 296, 297, 299

INTERDISCIPLINARY COURSES

Electives and/or Service Courses: All courses

LECTURE FORUM

Electives and/or Service Courses: All courses

MATHEMATICS

Mathematics: All courses above 100 level meet requirements for AA; 105 and above for AS degree

MILITARY SCIENCE

Electives and/or Service Courses: All courses

MUSIC

Humanities: 171, 172, 173, 174, 271, 272, 273, 275, 276, 295 *Electives and/or Service*

Courses: All other courses including applied music

PHILOSOPHY

Humanities: 210, 253 *Humanities/Literature:* 226 *Humanities/Social Sciences:* 101, 102, 103, 106, 201, 202, 211, 220, 240, 241, 242, 248, 258, 348 *Electives and/or Service Courses:* 291*, 299*

PHYSICAL EDUCATION

Electives and/or Service Courses: All courses

PHYSICS

Lab Sciences: 107 (4 cr.), 110 (4 cr.), 120 (4 cr.), 141, 142, 201, 202, 211, 212, 213 *Electives and/or Service Courses:* 107 (3 cr.), 110 (3 cr.), 120 (3 cr.), 205, 291*, 299*

POLITICAL SCIENCE

Social Sciences: All courses

PSYCHOLOGY

Lab Sciences: 225 *Social Sciences:* 201, 202, 203, 204, 205, 208, 210, 224, 250, 254, 299, 411, 449, 507, 509, 530, 560, 561, 562

SOCIOLOGY

Social Sciences: All courses

WOMEN'S STUDIES

Humanities/Social Sciences: 202 *Social Science:* 138, 208, 250 *Elective and/or Service Courses:* 101, 291*, 299*

* 291, 297, 298, 299 courses are usually considered as Elective and/or Service Courses. Exceptions to this designation will be so indicated in your campus timetable.

Academic Procedures, Regulations



Academic regulations are subject to change. Your campus Office of Student Services can provide specific up-to-date information.

Definition of credit

Each course is assigned a number of credit hours. Credit is measured in semester hours. A credit of one semester hour usually represents one hour of lecture or two hours of laboratory or studio per week. You should expect to spend two to three hours in out-of-class preparation and study each week for each credit.

Credit load

As a freshman, you may enroll in a maximum of 17 credits a semester; sophomores may enroll in up to 18 credits. You are allowed to enroll in a maximum of nine (9) credits during summer session, whether in an eight (8) week session and/or any combination of shorter sessions. The maximum credit load for a four (4) week session is four (4) credits. You must have the approval of your campus student services officer and/or your advisor.

Non-degree credit

Some courses, such as MAT 081 (high school algebra) and 091 (high school geometry) are non-degree credit courses. Non-degree credit courses will not count toward your associate degree and are not used to determine your grade point average. However, those credits will be used to determine if you have completed enough course work to maintain satisfactory academic standing.

Zero credit courses

Some courses are offered for zero (0) degree credit. If you take a zero credit course, a grade will be recorded. You are expected to do all assigned work in the course. Zero credit courses count as one

(1) credit for the purpose of assessing fees.

Pass/Fail

The University allows you to take courses on a pass/fail basis. This allows you to explore a field or subject without worrying about the letter grade you earn. Only the elective courses which apply toward the associate degrees may be taken as pass/fail. Instructors assign final grades of S (pass) and U (fail) for courses taken on a pass/fail basis. The results of any pass/fail course will not affect your GPA.

All students may elect one pass/fail course each semester, including summer session. You may elect two pass/fail courses as a freshman and two as a sophomore.

You must decide whether to take a pass/fail course during the time period allowed for adding a course. You may not change a course either to or from pass/fail after the deadline for adding a course.

Since most universities do not allow pass/fail courses to count toward either a major or general studies requirement, you should not, if you are undecided about your major, take any courses on a pass/fail basis which might later meet degree requirements in your major field.

Instructors in non-degree credit courses listed in the catalog and instructors in LEC (lecture forum) courses in the catalog may grade an entire class on a pass/fail basis. If that is the case, it will be indicated in the campus timetable.

Auditing a course

You may, with the consent of the instructor, audit a course. As an auditor, you will not take any exams nor have any course work evaluated by the instructor. You may not be allowed to audit a course if your presence will result in additional classroom space requirements or in increased instruction costs.

Audited courses carry no degree credit and do not count toward your GPA nor

do they count toward full-time attendance for purposes such as certification of full-time attendance for Social Security or Veterans' Administration benefits.

You may change from audit to credit status during the same period allowed for adding a course and you may change from credit to audit during the period allowed for dropping a course.

You may take a course, previously audited, for credit.

Grading system

Semester grades are recorded by letter only. Each letter grade equals a certain number of grade points per credit. A grade of B in a three credit subject equals nine grade points as illustrated by the following scale of grades and grade points:

Grade	Grade Points Per Credit
A (Excellent)	4.00
A -	3.67
B +	3.33
B (Good)	3.00
B -	2.67
C +	2.33
C (Fair)	2.00
C -	1.67
D +	1.33
D (Poor)	1.00
D -	0.67
F (Fail)	0.00

The following symbols are used as grades where grade points are not assigned:

- CO - Audited course completed.
- NC - Audited course not completed.
- I - Incomplete
- R - Repeat. Used in first semester freshman English and developmental courses when the student is making progress but has not mastered the subject and must repeat the course.
- S - Satisfactory. A passing grade for courses taken on a pass/fail basis.
- U - Unsatisfactory. A failing grade for courses taken on a pass/fail basis.

- W** - Withdrew. Recorded opposite the course number and title on the record card or transcript for any course dropped after the end of the third week of classes and before the deadline for dropping courses. Only the fact of registration and withdrawal will be recorded when students withdraw from an entire program.

The following symbols are used immediately following the number of credits:

- N** - Course offered for non-degree credit.
H - Course taken for Honors Credit.
A - Course was audited.

Grade Point Average (GPA)

The quality of your work is indicated by your grade point average (GPA). The highest possible GPA is 4.0, representing an A grade in each course attempted; the lowest GPA, 0.0, represents an F grade in every course attempted.

Your GPA is determined, whether for a semester or on a cumulative basis, by dividing the total number of grade points earned by the total number of credits attempted. Course where you received a grade of AU, I, R, S, U or W are not counted when determining your GPA. If you complete a course in which you originally received a grade of I, the credits and points associated with the new grade will be included in your cumulative GPA.

Incompletes

An Incomplete (I) may be recorded if you carried a passing grade in a class until near the end of the semester and then, because of substantiated cause beyond your control, were unable to take the final exam or complete a limited amount of term work.

The instructor will also submit a grade to be recorded as a permanent grade in the course if you fail to remove the incomplete. The tentative grade is recorded by the instructor on the final grade sheet for class along with the grade of I.

You are responsible for consulting with your instructor about the work to be completed. The instructor will file a detailed report of the work to be completed to allow you to finish the course. The format of the report and the filing place are determined by each Centers campus.

You must remove the incomplete grade before the end of the next semester. If you and your instructor agree, an exception to the time limit may be made in writing to the Office of Student Services. If you do not remove the incomplete within the time limit, it will be replaced by the tentative grade reported by your instructor on the final grade sheet. You may remove the incomplete grade by repeating the course. In that case, the regulations for repeating a course will apply.

Repeating courses

You may repeat courses to improve your GPA or to improve your foundations before taking succeeding courses in a discipline.

There is no limit to the number of times you may repeat a course, but all attempts and the resulting grades earned will appear on your transcript. If you repeat a course to improve your GPA, you must file a Course Repeat form during the semester in which you repeat the course. When a course repeat form is filed, only the most recent credits attempted and the grade earned are used to compute your cumulative GPA. Courses you repeated at other schools will not affect your GPA at your UW Centers campus.

If you do not file a course repeat form all credits attempted and grades earned are used to compute your GPA. However, courses you repeat may not always be counted twice toward the credits necessary to earn your associate degree. If you take HIS 101 twice for three (3) credits each time, you have not earned six (6) credits toward your degree.

Orchestra and Chorus are examples of courses you can take for degree credit more than one time.

You should consult the Office of Student Services if you plan to repeat a course, especially if you are receiving Veterans Administration or Social Security benefits.

Mid-term and final grades

Interim evaluation of your progress is your instructor's responsibility. The Office of Student Services is responsible for formally notifying you of your progress. The evaluation should reflect your progress during the first nine (9) weeks of classes. Your instructor should inform you of your interim grade as soon as possible.

Final grades must be reported by your instructor no more than 72 hours after the final exam. Your final grade report is mailed to you at the end of each semester or summer session. You are notified of any probationary or suspension action on your final grade report.

Grade changes

Only the instructor who gave the original grade can alter the final grade. Changes must be reported on the appropriate form and signed by both the instructor and the dean.

Final examinations

Final exams must be given at designated times. If you have more than two (2) exams on one (1) day or two (2) exams scheduled at the same time, you should make arrangements with one of your instructors to take one exam at an alternate time. If arrangements cannot be made, the instructor in the class with the smaller enrollment will schedule an alternate exam time.

Calendar week

When applying academic regulations referring to the week of classes, the course session week ends on the last day of instruction in the calendar week. The calendar week begins on Sunday and ends on the following Saturday.

Dropping courses

You may drop a course or courses by completing the Change of Program (Add/Drop) form during the first 10 weeks of a semester-long course, the first five (5) weeks of an eight (8) week course, and a proportionate time for shorter courses. Your campus may require the signature of your advisor and/or instructor. If you fail to complete the drop form and simply stop attending class, you may receive an official grade of F.

If you drop a class after the third week of classes, a grade of W will be recorded on your records.

Tuition refund is governed by the UW Regent Fee Schedule, issued annually. The date you return the completed drop form to the appropriate office is the date which determines the amount of your fee refund.

Adding courses

You may add a course or courses by completing the appropriate Change of Program (Add/Drop) form during the first two (2) weeks of a semester, the first week of an eight (8) week course, and during a proportionate time for shorter courses. Your campus may require the signature of your advisor and or instructor. The completed add form must be returned to the appropriate office.

You may add a course after the second week of classes of a semester if the change was necessary because you dropped a course and are substituting a lower level course in the same discipline.

Exceptions to the time limit are made only with the written consent of the instructor concerned.

Late registration

Late registration is governed by the same regulations as adding a course, subject to any assessment for administrative costs in effect under UW Regent policy.

Complete withdrawals

You may completely, and officially, withdraw from the university by completing the withdrawal form during the first 10 weeks of a semester, the first five (5) weeks of an eight (8) week session, or a proportionate time for shorter sessions. You and one other appropriate person, as determined by your campus, must sign your withdrawal form.

If you do not complete the withdrawal form during the specified time and fail to obtain the required signatures you may receive grades of F or FN in all courses for which you were registered.

Your tuition refund is governed by the UW Regent Fee Schedule, issued annually. The date you return the completed withdrawal form to the appropriate office is the date used to determine any tuition refund.

Withdrawal during a semester may subject you to either a warning or suspension as outlined in the "Satisfactory Progress Standards" section which follows.

Academic standing

You are expected to maintain certain standards of academic achievement in your work at the University. The University has established standards in terms of quality of work, measured by both semester and cumulative GPAs, and quantity of work satisfactorily completed, measured by the proportion of credit load completed each semester.

Certain exceptions are allowed for part-time students but, unless otherwise stated, part-time students are expected to meet the same standards of academic achievement as any other student.

Good standing is the status assigned when you make satisfactory progress and your cumulative GPA is 2.0 or better.

Probationary status is assigned when your academic progress is inadequate as determined by your GPA.

Warned status is assigned when you do not make satisfactory progress, as explained below.

Academic Suspension status is assigned when your record of satisfactory progress and/or achievement is unacceptable to

the extent that continued enrollment in the University is not permitted.

Probation and suspension status: The University is concerned about students whose academic achievements seem to indicate they are unable to meet the expectations of their instructors or are experiencing other problems which may be interfering with their studies. A probation action is a warning that you should take appropriate action to improve your achievement. You are suspended when the University feels your academic achievement record to date indicates that you need to interrupt your enrollment to reassess and reevaluate your goals and plans. If you are placed on probation or suspended, you should give careful consideration to factors which may be involved and should ask assistance from your counselors, advisors and course instructors.

You are expected to maintain at least a 2.0 (C) GPA on all work carried. If you fail to maintain this minimum GPA in any semester you may be put on probation, final probation or suspended at the end of the semester.

Satisfactory Progress Standards: You are expected to make satisfactory progress in your course of study. If you withdraw from your entire program or do not complete at least half of the maximum number of credits for which you are registered during the first two (2) weeks of class in any one semester, you will be placed on warned status. Once you have been warned, you will be suspended if you either completely withdraw or again do not complete at least half of the maximum number of credits for which you are registered during the first two (2) weeks of classes in either of the next two semesters for which you are registered.

If you are enrolled for an original credit load of less than six (6) credits, you are exempt from academic progress standards as measured by completed credits.

To determine satisfactory progress, "credits completed" include any courses for which grades of A, B, C, D, R or S (and any plus or minus values) have been received. Non-degree credit courses and repeated courses are included.

If you change the status of a course to AU (audit) or receive a grade of F, FN, U, I or W, the course will not be considered completed. If you satisfactorily re-

move an I grade and complete at least half the credits for a particular semester, your warned or suspended status will be rescinded.

You may appeal any suspension for failure to make satisfactory progress to the appropriate committee at your campus (see Suspension status and Appeals).

Satisfactory Progress for Financial Aid Eligibility: In order to maintain your eligibility to receive financial aid, you will be expected to make satisfactory progress towards a degree. These standards are listed in detail in the Financial Aid portion of this catalog. Failure to comply with these standards will result in the loss of your financial aid eligibility

Grade point requirements and actions

1. Student in good standing at the beginning of the semester.
 - 1.0 to 1.999 semester GPA will result in probation status.
 - 0.999 or less semester GPA will result in a final probation status.
 - Action will be withheld until at least six (6) credits have been attempted in a Center. When six (6) credits have been attempted, students with a cumulative GPA of 1.00 to 1.99 will be placed on probation. Students with a cumulative GPA of 0.99 or less will be placed on final probation.
2. Student on probation at the beginning of the semester.
 - 1.00 to 1.999 semester GPA will result in final probation status.
 - 0.999 or less semester GPA will result in a suspension status.
 - 2.0 or better semester GPA but less than a 2.0 cumulative GPA will result in a continuation on probation.
 - 2.0 or better semester and cumulative GPA will result in a return to good standing.
 - A student admitted to a Center on probation must earn a 2.0 GPA on a minimum of 15 credits attempted in a Center in order to return to good standing.

3. Student on final probation at the beginning of the semester.

- Less than 2.0 semester GPA will result in a suspension status.
- 2.0 or better semester GPA will result in a continuation on final probation.
- 2.0 or better semester and cumulative GPA will result in a return to good standing.
- A student admitted to a Center on final probation must earn a 2.0 GPA on a minimum of 15 credits attempted in a Center in order to return to good standing.

Suspension status

The first suspension status results in a suspension from the University for one (1) semester. A subsequent suspension will result in a suspension from the University for two (2) semesters. If you are suspended you may register for a summer session or January interim only with the permission of the campus dean.

You may appeal your suspension to the appropriate committee at your campus. Any appeal must include a clear explanation of problems causing your inadequate achievement and how you propose to resolve those problems. If you are allowed to continue, you will be on final probation and may be subject to other special conditions.

Appeals

Any academic action may be appealed, except probation or final probation. You may ask for an exception to any academic regulation. Handling of exceptions will be determined at each Centers campus. Normally the appeal will be heard by the academic actions committee.

Readmission

Students who were out of school for a period of suspension, whether one semester or one year, are not automatically readmitted. You must file an application for admission and secure permission from the Office of Admission or Office of Student Services at the campus you wish

to attend. If you are readmitted, you will be on final probation and will be subject to normal standards of progress and achievement and other special conditions which may be designated.

Summer Session

No probation, final probation or suspension actions will be taken at the end of a summer session. Credits attempted and grade points earned are included in the cumulative GPA and will be used in determining subsequent actions.

Class attendance

Instructors will inform you of their expectations regarding class attendance. You are responsible for completing all work missed because of an absence from class. If you plan to be absent because of field trips or extracurricular activities sponsored by your campus, the faculty member in charge of the activity shall provide that information to instructors whose classes you will miss.

If you are receiving benefits from the Veterans' Administration and Social Security Administration, you are expected to attend all classes. You should consult the Office of Student Services for complete information.

Student classification

- 0 - 29 degree credits equal freshman standing
- 30 - or more degree credits equal sophomore standing

Honors or Dean's List

Each Centers campus may publish a Dean's List to honor students with high GPAs. Honors will be awarded to full-time students carrying at least 12 semester credits used to determine GPAs as detailed below. Honors will be awarded to part-time students who earned at least 15 credits with a cumulative average of 3.5 and who carry at least three (3) semester credits used to determine GPAs as detailed below. Part-time students will be identified on the Dean's List.

Honors: Grade point average of 3.50 through 3.74

High Honors: Grade point average of 3.75 through 3.99

Highest Honors: Grade point average of 4.00

You may request that your name be deleted from the Dean's List.

Transfer

To continue your study at a four-year degree-granting institution, you will have to transfer.

The Centers encourages you to make transfer decisions early and to study catalogs and other pertinent information from the four-year institution of your choice to determine general and specific major requirements. Consult the campus Office of Student Services for advice about transfer requirements, procedures and plans as early as possible. Credits earned at a Centers campus are University of Wisconsin credits and will be accepted as such by other colleges.

Most four-year colleges and universities limit the number of credits which can be transferred from a two-year school and applied toward a degree. A maximum of 72 credits can be transferred from a Centers campus to a UW degree-granted institution. However, many schools and colleges within the University of Wisconsin have a limit of less than 72 credits. Before you have earned half the credits necessary to complete a bachelor's degree you should consult an advisor about the total number of credits you can transfer to the four-year school of your choice.

If you plan to transfer, you will need the following information about admissions, housing and financial aid.

Admission. You must apply to the four-year campus for admission and provide official transcripts of all high school and postsecondary coursework you have attempted. In some schools, the particular department or program in which you wish to enroll may require a separate application or you may need to meet separate entrance requirements. Contact your campus Office of Student Services and the transfer school for information on spe-

cific application procedures, deadlines and entrance requirements.

Housing. Arrangements for housing at four-year institutions are handled in various ways. Usually you are required to file a separate application for housing or you must make your own arrangements for private housing. Housing arrangements should be considered early in your transfer process.

Financial Aid. If you wish to receive financial aid at your transfer school indicate this on the admission application, request information about application procedures and any separate application form the school may use and ask your campus Office of Student Services to provide a financial aid transcript to the four-year institution.

Transfer Problems. If you encounter transfer credit problems or other transfer related problems consult your campus Office of Student Services.

If you have specific questions about other University of Wisconsin System institutions, contact their specific Admissions Office or call the UW-HELP line at its toll free number (1-800-362-3020).

Transcript Request. If you want your transcripts sent to other institutions or if you want a copy for yourself, the request must be submitted in writing. Forms are available from the campus Office of Student Services. There is a \$2 charge for each transcript. No transcript will be furnished to any student who owes the University any fine, money or materials or who has a delinquent loan account for a loan, such as an NDSL loan, obtained through the University Financial Aid Office.

Student Disciplinary Guidelines

All students in the University of Wisconsin System are governed by the *Student Disciplinary Guidelines* (UWS 17), a copy of which is available in each Centers campus library. The campus student services officer will be glad to explain any part of these *Guidelines*. The following paragraphs outline the manner in which these *Guidelines* will be applied at the Centers campuses but they do not substi-

tute for a reading of the primary document.

Student Disciplinary Procedures acknowledge the need to preserve the orderly processes of the University with regard to its teaching, research and public service missions, as well as the need to observe every student's procedural and substantive rights. Acts which obstruct the University in fulfilling its mission may result in charges of misconduct and thus subject the student to adjudicative processes.

Misconduct may be termed non-academic or academic. That which is intentional and perpetrated against University property, personnel or activities is defined as non-academic. Actions which falsify a student's academic performance are considered academic misconduct.

Investigatory procedures vary according to the kind and degree of alleged misconduct. Offenses of a magnitude sufficient to warrant suspension or expulsion are examined under a formal adjudication procedure. Those offenses which would not warrant suspension or expulsion are examined under an informal adjudication procedure. Academic misconduct is examined under an academic adjudication procedure.

Suspension or expulsion is University systemwide in effect. A student who is suspended or expelled from one institution in the University of Wisconsin System may not enroll in another institution in the System unless the suspension has expired by its own terms or one year has elapsed after the student has been suspended or expelled.

Whenever charges or appeals are pending, the student charged, unless temporarily suspended, continues to have the same rights and privileges accorded other students. However, grades or diplomas may be withheld pending final determination of the charges; a current transcript will be issued at the request of the student, but it may contain the notation "Disciplinary Charges Pending" on the face of it.

Implementation of disciplinary procedures can occur at two levels. Because the point of primary contact by the student is at a specific Center, most conduct matters are dealt with there. The Executive Dean's Office may become involved, however, as the result of an appeal.

Rights of access for student education records

You are entitled to review any records, files, documents, and other materials, defined as "education records," maintained by the University which are directly related to you. This is in accordance with the federal Family Educational Rights and Privacy Act of 1974. Your access and review is subject to the following conditions:

1. You must submit the appropriate request form for reviewing your records to the Student Services Office. This form will be placed in your file. The Centers has 45 days to comply with your request.

2. You do not have access to certain types of information excluded by the Act: (a) personal notes of Centers staff and faculty; (b) employment records; (c) medical and counseling records used solely for treatment; (d) records kept by the person responsible for campus security; (e) financial records of your parents; (f) confidential letters and statements of recommendation placed in your records prior to January 1, 1975, or (g) confidential letters and statement of recommendation 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.

"Education records" maintained by the Centers include, but are not confined to, the following:

- (1) high school and college transcripts and other educational records submitted by you along with application for admission; (2) scores of placement tests and ACT or SAT scores if you requested that a copy be sent to the Centers; (3) records of registration and grades for each term; (4) requests of the student for reinstatement, special permission to withdraw after deadlines, etc. with the action taken in response to the request; (5) other records except those to which you do not have access as outlined in 2 above.

"Education records" maintained by the Registrar include:

- (1) record of registration (2) subjects carried and grades earned

After reviewing your records, you may challenge any information in your "education records" 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. You may also insert in your record a statement 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 Center's dean.

If your request for a record modification is not granted, you will receive written notification of the reasons and a copy of this notification will be placed in your file. In most cases, the decision of the dean will be final. However, you may file an appeal in writing to the Executive Dean, who will review the decision only if a significant question of policy or compliance with the law appears to be raised by the case. Your appeal to the dean or to the Executive Dean must be acted upon within 45 days from the date of the appeal.

In the process of challenging your record, should you wish to have copies of any documents in your file, there will be a charge of \$1.00 for a copy of each document. This charge does not apply to copies of your transcript.

You should be aware that, under the Act, the UW Centers construes the following to be directory information which is available to the public: *name, address, telephone number, date of birth, dates of attendance, degrees and awards received, sex, marital status, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, most recent previous educational agency or institution attended, parent/ spouse/ guardian name and address.* No other information will be released to a third party, except as provided by law, without your prior consent. In addition, you have the right to inform the Centers that the above information cannot be released without your prior consent. If you choose to have directory information restricted, or addi-

tional information released, you should file the appropriate request form in the Student Services Office.

No information from your education record will be released to an unauthorized third party, except as provided by law, without a signed release from you. If a judicial order for your education record is issued, you will be notified prior to the release of the information.

Policy against sexual harassment

The University of Wisconsin Centers believes that respect for human dignity is essential to an appropriate university environment. Thus, sexual harassment of students and employees is impermissible and unprofessional conduct and will not be tolerated. Conduct determined to fall within the definition of sexual harassment will be subject to disciplinary action in accordance with applicable due process requirements, including but not limited to, reprimand, temporary suspension, expulsion, or discharge of the harassing individual.

Sexual harassment may be defined as unwelcome sexual advances, requests for sexual favors, and other physical conduct and expressive behavior of a sexual nature where: (1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or education; (2) submission to or rejection of such conduct by an individual is used as the basis for academic or employment decisions affecting that individual; or (3) such conduct has the purpose or effect of substantially interfering with an individual's academic or professional performance or creating an intimidating, hostile, or demeaning employment or educational environment. (SOURCE: University of Wisconsin Centers Sexual Harassment Policies & Procedures, 1 February 1982.)

Your Centers library, Dean's office, and Student Services Office have copies of the above policy. In addition, a sexual harassment mediation committee exists at your campus to provide you with information.

Course Descriptions



Course descriptions

Departmental abbreviations

ANT	Anthropology
ART	Art
AST	Astronomy
BAC	Bacteriology (See Biological Sciences)
BIO	Biology (See Biological Sciences)
BOT	Botany (See Biological Sciences)
BUS	Business
CHE	Chemistry
COM	Communication Arts
CPS	Computer Science
ECO	Economics (See Business & Economics)
EDU	Education
EGR	Engineering
ENG	English
FOR	Forestry (See Biological Sciences, Natural Resources)
FRE	French (See Foreign Language)
GEO	Geography
GER	German (See Foreign Language)
GLG	Geology
GRA	Engineering Graphics (See Engineering)
HIS	History
INT	Interdisciplinary Studies
LEA	Learning Resource
LEC	Lecture Forum
MAT	Mathematics
MEC	Engineering Mechanics (See Engineering)
MLG	Meteorology (See Geology & Meteorology)
MLS	Military Science
MUA	Music, Applied (See Music)
MUS	Music
NAT	Natural Resources (See Biological Sciences)
PED	Physical Education
PHI	Philosophy
PHS	Physiology (See Biological Sciences)
PHY	Physics
POL	Political Science
PSY	Psychology

SOC	Sociology
SPA	Spanish (See Foreign Language)
WIL	Wildlife (See Biological Sciences, Natural Resources)
WOM	Women's Studies
ZOO	Zoology (See Biological Sciences)

Descriptions of courses offered at UW Centers campuses are on the following pages. Although no single campus offers every course and many are offered only at one or two campuses, each campus offers the essential freshman-sophomore curriculum to prepare you for transfer to a four-year campus with a major in almost any field you choose.

Check the appropriate campus section of this catalog and the campus timetable to learn which courses are offered at your campus.

Abbreviations for Associate Degree designations:

EL	- Elective and/or service course
HU	- Humanities
LI	- Literature
LS	- Lab Science
MA	- Mathematics
RC	- Required course
SS	- Social science
Prereq:	- Prerequisite
Cons.	
instr.	- Consent of Instructor

See degree requirement section for general requirements. Designations such as **PHI 201 HU/LI** mean the course will meet requirements for both associate degrees.

*291, *297 and *299 courses are usually elective and/or service courses. Exceptions are noted in the campus timetables.

ANTHROPOLOGY

General:

ANT 100 General Anthropology. 3-4 cr. General understanding of humans in relation to cultures, evolutionary development and racial diversity, capaci-

ties for society and the development of the world's major cultures. *SS.*

ANT 291 Topics in Anthropology. 3-4 cr. The topic selected will be in some area of special competence of the instructor. When this course is offered, the specific topic will be indicated in the campus timetable. Prereq: ANT 100, 102, 105 or cons. instr. *SS.*

ANT 293 Proseminar in Anthropology. 1-4 cr. The topic selected will be in some area of special competence of the instructor; when this proseminar is offered, the specific focus will be indicated in the campus timetable. Prereq: ANT 100, 102, 105 or cons. instr. *SS.*

ANT 299 Independent Reading and Research in Anthropology. 1-4 cr. Prereq: ANT 100, 102, 105 or cons. instr. *SS.*

ANT 440 Introduction to Anthropological Research. 3 cr. Supervised research on topics selected by students. Working independently or in small groups, students investigate problems in depth and report their conclusions. Prereq: sophomore standing, introductory course and cons. instr. *SS.*

Biological:

ANT 105 Introduction to Physical Anthropology. 3-4 cr. The biological basis of human evolution and human variation; the place of humans in the order of primates; consideration and interpretation of the fossil evidence for human evolution. 3 cr. *SS, 4 cr. LS.*

ANT 106 Human Biology Lab. 3-4 cr. Lab training in the techniques of description and analysis of human morphological and serological variations. Prereq: ANT 105, concurrent ANT 105 registration or cons. instr. *LS.*

ANT 303 The Human Skeleton. 3 cr. Individual bones and teeth; sex, age, and racial variation; stature reconstruction; continuous and discontinuous morphological variations; forensic aspects of individual identification; lab training in observations, measurement, and analysis; lecture and lab. Prereq: cons.. instr. *LS.*

ANT 304 Heredity, Environment and Human Population. 3 cr. Cultural and ecological factors influencing the composition and structure of human population; expression and distribution of genetic characters within and between populations; racial differences, race formations; constitutional studies, mating systems and their genetic consequences. Prereq: introductory ANT or ZOO course, or cons. instr. 3 cr. *SS* or 4 cr. *LS.*

ANT 408 Introduction to Non-Human Primates. 3-4 cr. Basic aspects of the non-human primates; geographical distribution, ecology, (habitat, diet), morphology, locomotory and social behavior, reproduction and development, evolution. Prereq: ANT 100, 105 or cons. instr. *LS.*

Prehistorical:

ANT 102 Archaeology and the Prehistoric World. 3 cr. Introduction to the prehistoric world from origins of human culture to the beginnings of written history as revealed by archaeological research at great sites and ruins around the globe. Archaeological analysis of famous prehistoric sites as case studies to illustrate concepts and techniques used by archaeologists in their efforts to understand the rise, florescence and demise of vanished societies. *SS*.

ANT 222 Emergence of Human Culture. 3 cr. Worldwide archaeological evidence for the development of human culture and behavior from the earliest appearance of human groups to the agricultural revolution. Archaeological methods and theory covered extensively to introduce humanity's first two million years. Prereq: sophomore standing or cons. instr. *SS*.

ANT 302 Archaeology of Wisconsin. 3-4 cr. Survey of Wisconsin archaeology from the earliest occupation of the state through the historic period and subsequent tribal breakdown. Emphasis is on ecological and historical factors influencing development of prehistoric and historic aboriginal culture of Wisconsin. Prereq: ANT 100, 105, 200 or cons. instr. *SS*.

ANT 308 Archaeology of North America. 3-4 cr. Main pre-Columbian cultures and evidences of ancients north of Mexico. Prereq: ANT 222 or cons. instr. *SS*.

ANT 311 Archaeological Field and Laboratory Techniques. 4 cr. An introduction to the methods of laboratory analysis of recovered materials; choice of techniques with respect to problems; contributions of related fields to archaeological interpretations; reconstruction of ancient societies and cultural history. Prereq: cons.. instr. *LS*.

ANT 322 The Origins of Civilization. 3-4 cr. Global archaeological survey of the origins of pristine civilizations beginning with the development of food production and ending with the emergence of the world's first civilizations. Focus of attention: Near East, Egypt, the Indus Valley, North China, Mesoamerica, and Peru. Prereq: ANT 222 or cons. instr. *SS*.

ANT 370 Field Course in Archaeology. 3-6 cr. An introduction to the techniques of field archaeology, including site survey, mapping, and excavation, by participation in an actual archaeological field project. Also instruction in the description, analysis of artifacts. The site(s) excavated vary each year. Normally taught in summer. Prereq: ANT 102 and cons.. instr. *LS*.

Linguistic:

ANT 301 Introduction to Linguistics: Descriptive and Theoretical. 3-4 cr. Elementary theory and practical work in phonetics, phonology, morphology, and syntax, formal grammar and semantics. *HU*.

Cultural: Topical and Area

ANT 200 Cultural Anthropology. 3 cr. Variations of human cultures and the comparative study of human institutions. *SS*.

ANT 204 Cultures of the World. 3 cr. Ethnographic survey of the world's peoples and their cultures. Major regions of the world considered in an attempt to outline the variety, richness, significance and the persistence of cultural traditions. *SS*.

ANT 250 Women in Cross-Cultural Perspective. 3 cr. (Same as WOM 250) The study of the position women in a variety of societies around the world. Includes consideration of the sexual division of labor, marriage systems, child rearing, relations between men and women, and systems of myth and ideology concerning women's roles. The effects of socio-economic development and rapid social change are examined. *SS*.

ANT 314 Indians of North America. 3 cr. Description and analysis of native cultures, and the role of environmental and historical factors in North America. Prereq: ANT 100, 105 or cons.. instr. *SS*.

ANT 325 Peoples and Cultures of East Asia. 3-4 cr. Description and analysis of eastern Asian cultures; the great civilizations, the non-literate societies and the problems of contemporary cultural change. Prereq: ANT 100, 200 or cons.. instr. *SS*.

ANT 330 Topics in Ethnology. 4 cr. Content varies. Some representative topics: values in anthropological interpretations, ethnocentrism, transformation of "Primitive societies," folklore of (specific area). Prereq: introductory cultural ANT course or cons.. instr. *SS*.

ANT 341 Technological Change and Culture Patterns. 4 cr. Methods in application of anthropology and analysis of contemporary cases relating to human problems resulting from technical change. Prereq: ANT 100, 105, 200 or cons.. instr. *SS*.

ANT 343 Anthropology of Religion. 3-4 cr. Anthropological approaches to selected religious systems, including geographic and topical comparisons, critical considerations of outstanding contributions, and a view of religion as an ethnographic problem. Prereq: ANT 100, 200 or cons.. instr. *SS*.

ANT 349 Culture Contact and Acculturation. 3-4 cr. Processes of cultural interchange, attention to the selective nature of cultural borrowing and the way in which borrowed traits are modified and integrated into their new cultural setting. Prereq: ANT 100, 200 or cons.. instr. *SS*.

ANT 351 Outer Space and Futures Research. 3-4 cr. A survey of present and projected uses of outer space with special emphasis on bio-cultural adaptations in extreme environments, both on earth and in space. *SS*.

ANT 353 Indians of the Western Great Lakes. 3-4 cr. Analysis of Indian cultures in the area around the western Great Lakes, with emphasis on traditional cultures of the Indians in Wisconsin. Prereq: ANT 100, 102, 105 or cons.. instr. *SS*.

ANT 400 Human Sexuality: an Anthropological Perspective. 3 cr. An anthropological examination of the biological, psychological, sociological and cultural bases of human sexual behavior as a means of providing students with up-to-date empirical information concerning human sexuality. *SS*.

ANT 450 Illness and Healing in Anthropological Perspective: Introduction to Medical Anthropology. 3 cr. A cross-cultural examination of the definition, explanation and treatment of disease utilizing the holistic approach of anthropology. *SS*.

ANT 470 Cultural Ecology. 3-4 cr. The comparative study of human populations in ecosystems. Relations between culture and the bio-physical environment with the focus on cultural adaptations. Implications for anthropological theory, sociological evolution and contemporary problems. Prereq: introductory ANT course. *SS*.

ANT 545 Culture and Personality. 3-4 cr. Development of psychologically oriented studies in cultural anthropology. Relevant research in language, cognition, intercultural communication and cross-cultural study of mental illness. Prereq: ANT 100, 200 or cons.. instr. *SS*.

ANT 570 Anthropology of Education. 3-4 cr. Current and historical relation of anthropology to education with particular reference to culture contact and social change, cultural perspectives on education and educational systems, learning as cultural transmission and application of anthropological knowledge to curriculum. Prereq: ANT 100, 200 or cons.. instr. *SS*.

ART

ART 101 Drawing. 3 cr. Principles of creative and structural drawing; an investigation of the methods and materials of draftsmanship and expression. A lecture-lab class that meets 6 hours per week. *EL*.

ART 102 Drawing II. 3 cr. Continuation of ART 101. Lecture-lab, 6 hours per week. Prereq: ART 101. *EL*.

ART 103 Drawing III. 3 cr. Continuation of ART 102; emphasis upon the academic discipline in drawing. Lecture-lab, 6 hours per week. Prereq: ART 102. *EL*.

ART 111 Two Dimensional Design. 3 cr. Basic elements of design; arrangement of line, color, value, texture. Lecture-lab, 6 hours per week. *EL*.

ART 112 Three Dimensional Design. 3 cr. Basic elements of design; introductory experiences in the use of volume and spatial arrangement. Lecture-lab, 6 hours per week. *EL*.

ART 113 Layout and Lettering. 3 cr. Letter style and typographic design applied to various modes of visual communication. Lecture-lab, 6 hours per week. *EL*.

ART 121 Introduction to Painting. 3 cr. Basic media for painting; acrylic, oil, watercolor, a foundation course. Lecture-lab, 6 hours per week. Prereq: ART 101, 111 or cons.. instr. *EL*.

ART 131 Introduction to Sculpture. 3 cr. Basic experiences in various media for sculpture. May include: clay modeling, mold making and casting, welding and building—a foundation course. Lecture-lab, 6 hours per week. Prereq: ART 101, 112 or cons.. instr. *EL*.

ART 141 Introduction to Printmaking. 3 cr. Studio survey of relief printing, intaglio, lithography, and serigraphy—a foundation course. Lecture-lab, 6 hours per week. Prereq: ART 101, 111 or cons.. instr. *EL*.

ART 151 Introduction to Crafts. 3 cr. Studio survey of various craft media. May include: weaving, leather, metal—a foundation course. Lecture-lab, 6 hours per week. Prereq: ART 101, 112 or cons.. instr. *EL*.

ART 161 Introduction to Photography. 3 cr. Survey of photographic techniques; camera and darkroom use—a foundation course. Lecture-lab, 6 hours per week. Prereq: ART 101, 111 or cons.. instr. *EL*.

ART 171 The Artist and the Visual Arts. 3 cr. Cultural history as it is discerned through an investigation of the artist and the work of art. Lecture. *HU*.

ART 173 Art Introduction. 3 cr. A fundamental course in the basic principles of two and three dimensional design: projects for the non-art major. (Note: art majors will not receive credits in the art department for this course.) Lecture-lab, 6 hours per week. *EL*.

ART 181 Survey: Ancient through Medieval Art. 3 cr. A survey of painting, sculpture, architecture, and the decorative arts of the Mediterranean world and Europe from prehistoric times through the middle ages. Lecture. *HU*.

ART 183 Survey: Renaissance to Modern Art. 3 cr. A survey of painting, graphics, sculpture, architecture, and the decorative arts in the Western world from the later Middle Ages to the present. Lecture. *HU*.

ART 185 Survey: Renaissance Art. 3 cr. An investigation of the major movements, major artistic personalities in painting, graphics, sculpture and architecture of Europe during the Renaissance era. Lecture. *HU*.

ART 187 Survey: Modern Art (Painting, Graphics, and Sculpture). Recent developments in art related to the cultural environment. Field trip. Lecture. *HU*.

ART 188 Survey: Modern Art (Architecture and Related Arts). Recent developments in architecture, environmental planning, commercial and industrial design, furniture, and crafts. Field trip. Lecture. *HU*.

ART 191 Studio Participation I. 3 cr. Participation by humanities or non-art majors in the sophomore studio offerings that normally demand prerequisites. Declared art majors may not take this course. Lecture-lab, 6 hours per week. Prereq: cons.. instr. *EL*.

ART 192 Studio Participation II. 3 cr. Participation by humanities or non-art majors in the sophomore studio offering that normally demand prerequisites. Declared art majors may not take this course. Lecture-lab, 6 hours per week. Prereq: cons.. instr. *EL*.

ART 193 Community Studio. 1-3 cr. An open-ended, variable credit class designed to meet the needs of the special student who wishes to participate in the scheduled art courses on the campus. Prereq: cons.. instr. *EL*.

ART 201 Life Drawing I. 3 cr. The discipline of drawing from the human figure; superficial anatomy related to visual expression. Lecture-lab, 6 hours per week. Prereq: ART 102 or cons.. instr. *EL*.

ART 202 Life Drawing II. 3 cr. Continuation of ART 201. Lecture-lab, 6 hours per week. Prereq: ART 201. *EL*.

ART 211 Advanced Design. 3 cr. Experimentation in visual phenomena. Studio practice with lecture and readings in perception, design theory, philosophy and history of design. Lecture-lab, 6 hours per week. Prereq: ART 111, 112 or cons.. instr. *EL*.

ART 212 Materials Workshop. 3 cr. Exploration of materials as they apply to industrial production with emphasis upon new applications for existing materials in three-dimensional problems—hand and power tools are used. Lecture-lab, 6 hours per week. Prereq: ART 111, 112 or cons.. instr. *EL*.

ART 219 Drawing: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. Prereq: cons.. instr. *EL*.

ART 221 Watercolor I. 3 cr. Watercolor, and water-based media as a means of visual expression—an introduction to basic techniques and principles. Lecture-lab, 6 hours per week. Prereq: ART 121. *EL*.

ART 222 Watercolor II. 3 cr. Continuation of ART 221. Lecture-lab, 6 hours per week. Prereq: ART 221. *EL*.

ART 223 Oil Painting I. 3 cr. Technical investigation and use of materials related to the oil media—a basic studio orientation. Lecture-lab, 6 hours per week. Prereq: ART 121. *EL*.

ART 224 Oil Painting II. 3 cr. Continuation of ART 223 with emphasis upon individual research. Lecture-lab, 6 hours per week. Prereq: ART 223. *EL*.

ART 229 Painting: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. Prereq: cons.. instr. *EL*.

ART 231 Sculpture I. 3 cr. Concentration upon the problems of sculptural techniques and execution. Lecture-lab, 6 hours per week. Prereq: ART 131 or cons.. instr. *EL*.

ART 232 Sculpture II. 3 cr. Continuation of ART 231. Lecture-lab, 6 hours per week. Prereq: ART 231. *EL*.

ART 239 Sculpture: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. Prereq: cons.. instr. *EL*.

ART 241 Lithography. 3 cr. Aspects of planographic printing related to stone and metal—crayon, touse, transfer, registration and color processes. Lecture-lab, 6 hours per week. Prereq: ART 141 or cons.. instr. *EL*.

ART 243 Intaglio. 3 cr. Etching, engraving, aquatint application of grounds and mixed techniques in the incised image. Lecture-lab, 6 hours per week. Prereq: ART 141 or cons.. instr. *EL*.

ART 245 Serigraphy. 3 cr. Materials and techniques in the silk screen process—investigation of stencils and resists in printing. Lecture-lab, 6 hours per week. Prereq: ART 141 or cons.. instr. *EL*.

ART 247 Relief Printing. 3 cr. Woodcut, wood engraving, and line cut processes; introduction to the problems of color registration and production. Lecture-lab, 6 hours per week. Prereq: ART 141 or cons.. instr. *EL*.

ART 249 Printmaking: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. Prereq: cons.. instr. *EL*.

ART 251 Metal I. 3 cr. Problems in copper, gold, silver, bronze, and pewter with regard to the crafts-

manship and studio procedure. Lecture-lab, 6 hours per week. Prereq: ART 151 or cons.. instr. *EL*.

ART 252 Metal II. 3 cr. Continuation of ART 251. Lecture-lab 6 hours per week. Prereq: ART 251. *EL*.

ART 253 Ceramics I. 1-3 cr. An introduction to the method of pottery production; including slab, coil, and simple wheel techniques. Lecture-lab, 6 hours per week. Prereq: ART 151 or cons.. instr. *EL*.

ART 254 Ceramics II. 1-3 cr. Continuation of ART 253 with emphasis upon wheel production of pottery. Lecture-lab, 6 hours per week. Prereq: ART 253. *EL*.

ART 259 Crafts: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. Prereq: cons.. instr. *EL*.

ART 269 Photography: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. Prereq: cons.. instr. *EL*.

ART 279 Art Theory and Criticism: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. Prereq: cons.. instr. *EL*.

ART 289 Art Survey: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. Prereq: cons.. instr. *EL*.

Not all courses listed here are offered at all centers. See your campus timetable for course offerings.

ASTRONOMY

AST 100 Survey of Astronomy. 3-4 cr. Descriptive survey of astronomy for students with minimal background in mathematics and science; the solar system, stars, nebulae, galaxies, cosmology, astronomical methods. May be offered for three credits without laboratory work, or for four credits with laboratory work consisting of telescopic observation, laboratory demonstration, and astronomy exercises. Normally not open to students who have had the prerequisite for AST 200. Check the local timetable for credits listed. Prereq: high school algebra and geometry or cons.. instr. 3 cr. *EL* or 4 cr. *LS*.

AST 101 Observational Astronomy. 1 cr. Observation of solar system, galactic and extra-galactic objects, and introduction to basic observational techniques in astronomy. Includes telescopic and unaided eye observation, positional astronomy, astro-photography, optics spectroscopy, interpretation of astronomical data and astronomy laboratory exercises. Students who have AST 200 or AST 100 for 4 credits, or equivalent courses, are not eligible for this course. Prereq: one year of high school algebra and one year of high school geometry or one semester of college algebra. If the prerequisite math course was taken more than five years ago, cons.. instr. required. *LS*.

AST 200 General Astronomy. 4 cr. Survey of astronomy for students who have some background in mathematics and physics; the solar system, stars, nebulae, galaxies, cosmology, astronomical methods. Telescopic observation, laboratory demonstration, and astronomy exercises; three hours lecture,

two hours lab-discussion per week. Not open to students who have taken AST 100. Prereq: PHY 141, 201 or equivalent. *LS*.

AST 291* Topics in Astronomy. 1-3 cr. An extended coverage of one or more topics in astronomy such as extra-terrestrial life, archaeoastronomy, cosmology, astrophysics, radio astronomy, stellar structure, dynamical astronomy, galactic structure and observational astronomy. Prereq: cons.. instr. *EL*.

BIOLOGICAL SCIENCES

BACTERIOLOGY

BAC 101 General Survey of Microbiology. 4-5 cr. An introduction to the fundamental principles and techniques of microbiology and their application to public health practices. The subjects of pathology, microbial genetics, evolution, taxonomy, anatomy, and metabolic pathways are discussed. Lecture, lab, and field trips. Prereq: introductory CHE, BIO courses recommended. *LS*.

BAC 299 Reading and Research in Microbiology. 1-3 cr. (Same as BOT/ZOO 299) Supervised undergraduate reading and research in biological sciences. This course is designed to acquaint the undergraduate with the literature and research techniques used in biological investigation, and to give practical experience in scientific problem-solving. Prereq: cons.. instr. *EL*.

BIOLOGY

BIO 107 Biological Aspects of Conservation of Natural Resources. 2 cr. The principles underlying the proper management of our resources—water, soils, minerals, forests, wildlife and human. The current and past attitudes relating to the resources with the interaction and complexities of man's interests. This is approved as meeting the statutory requirement for Conservation of Natural Resources as required for State certification for teachers of science and social sciences. *EL*.

BIO 109 Concepts of Biology. 3-5 cr. An introduction to the fundamental principles of living organisms. Includes cell and tissue structure, growth, basic physiological processes, reproduction and inheritance, classification, evolution and ecology. Lecture, lab and field trips. *LS*.

BIO 116 Great Ideas in Biology. 2 cr. Selected landmark ideas in biology will be discussed not only to familiarize students with the concepts but also to help them appreciate how scientific ideas develop, how technology and basic science interact, how public opinion affects the acceptance and application of advances, and how current breakthroughs are likely to affect man in the future. *EL*.

BIO 151 Introductory Biology. 5 cr. Living organisms; their structure, functional capabilities, developments, perpetuation, and evolution. In combination with BIO 152 recommended for biology majors preparatory to advanced courses in biology, botany or zoology; also designed for those who wish a single integrated course in biology. Lecture, lab and field trips. *LS*.

BIO 152 Introductory Biology. 5 cr. Living organisms; their diversity, behavior, ecology and evolution. Lecture, lab and field trips. Prereq: BIO 151. *LS*.

BIO 160 Heredity. 3 cr. Principles of heredity with applications to plant, animal, and human inheritance; current advances in genetics and their bearing on the life sciences; lecture, demonstrations and discussion. *EL*.

BIO 250 Principles of Ecology. 3-4 cr. The interrelationships between living organisms and their environment; ecosystems concepts; population dynamics; community organization and distribution; and application of ecological principles to man and his environment. Lecture, lab and field trips. Prereq: introductory BIO course. *LS*.

BIO 260 Genetics. 3 cr. Laws of variation and heredity and their modification by environment and chromosome behavior. Lecture and lab. Prerequisite: introductory BIO course. *LS*.

BOTANY

BOT 100 Survey of Botany. 3 cr. Structure, functions, and life histories, taxonomy and evolution of representative plants throughout the plant kingdom. Lecture, lab, and field trips. *LS*.

BOT 130 General Botany. 3-5 cr. An introduction to plant sciences including the structure, development, and physiology of plants. The relation of the major plant groups and the principles of biology. Lecture, lab, and field trips. *LS*.

BOT 231 Survey of the Plant Kingdom. 3-5 cr. A phylogenetic study of the plant kingdom including all major groups of living and fossil plants, the distinguishing morphological features of the major taxa, and the life cycles of representative organisms with evolutionary considerations. Lecture, lab, and field trips. Prereq: introductory BIO course. *LS*.

BOT 240 Plants and Civilization. 2 cr. Botanical and geographical history of plants important in the development of civilization and in world economy. Lecture. *EL*.

BOT 291 Special Topics in Botany. 1-3 cr. (Same as ZOO 291) Designed to cover topics in biology not ordinarily covered in other classes. Prereq: cons.. instr. *EL*.

BOT 299 Reading and Research in Botany. 1-3 cr. (Same as ZOO 299) Supervised undergraduate reading and research in biological sciences. This course is designed to acquaint the undergraduate with the literature and research techniques used in biological investigation, and to give practical experience in scientific problem-solving. Prereq: cons.. instr. *EL*.

BOT 400 Classification of Cultivated and Native Plants. 3 cr. Representative families and genera of flowering plants, use of keys and manuals. Lecture, lab and field trips. Prereq: introductory BOT course. *LS*.

BOT 450 Principles of Plant Ecology. 3-5 cr. Plants and plant communities in relation to their environment. Lecture, lab, and field trips. Prereq: introductory botany course or equivalent. *LS*.

NATURAL RESOURCES

FOR 120 Introduction to Forest Resources. 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. Lecture and lab. *LS*.

WIL 140 Introduction to Wildlife Resources. 3 cr. (Same as ZOO 140) Wildlife resources of the United States; the importance of wildlife to our past and present economic and cultural life; selected problems in wildlife conservation. Lecture, lab and field trips. Prereq: introductory BIO course. *LS*.

NAT 170 Introduction to Natural Resources. 1 cr. Introduction to natural resources with emphasis on their integrated management and their role in man's social and economic welfare. *EL*.

PHYSIOLOGY

PHS 104 Anatomy and Physiology. 5 cr. An examination of the structure and function of the organ systems of the human body. Lecture and lab. Prereq: introductory CHE, BIO courses recommended. *LS*.

PHS 170 Human Anatomy and Physiology. 3 cr. (Same as ZOO 170) Anatomy and physiology of the human body. Demonstration and discussion section designated to emphasize anatomy and basic physiological principles. Lecture, demonstration and lab. Prereq: introductory CHE, BIO courses recommended. *LS*.

PHS 202 Anatomy and Physiology. 4 cr. An examination of the structure and function of the human body at the molecular, cellular, tissue, organ and system levels of organization. The integration of these levels of organization within the human organism is emphasized. This is the first semester of a two semester sequence. Students with credit in PHS 202 and PHS 203 may not receive associate degree credit for PHS 235 and ZOO 234. Lecture and lab. *LS*.

PHS 203 Anatomy and Physiology. 4 cr. An examination of the structure and function of the human body at the molecular, cellular, tissue, organ and system levels of organization. The integration of these levels of organization within the human organism is emphasized. This is the second semester of a two semester sequence. Students with credit in PHS 202 and PHS 203 may not receive associate degree credit for PHS 235 and ZOO 234. Lecture and lab. Prereq: Physiology 202. *LS*.

PHS 235 Human Physiology. 5 cr. An examination of the physiological processes of the human body. Lecture, demonstrations, and lab. Students with credit in PHS 235 and ZOO 234 may not receive associate degree credit for PHS 202 and PHS 203. Prereq: introductory courses in chemistry and biology or cons.. instr. *LS*.

ZOOLOGY

ZOO 101 Animal Biology. 4-5 cr. General biological principles—structure and function of the cells, histology, embryology, heredity, ecology, and

evolution; survey of the animal kingdom; and structure and function of the vertebrate body. Lecture, lab and field trips. *LS*.

ZOO 103 Human Environmental Biology. 3 cr. A contemporary study of the natural world through the human perspective. Emphasis on humans as a modifying force in the biophysical environment, including selected topics in ecological principles, pollution, population biology, and environmental management. This course is approved as meeting the statutory requirement for Conservation of Natural Resources as required for State certification for teachers of science and social sciences. Lecture, lab and field trips. *LS*.

ZOO 105 Introduction to Human Biology. 3 cr. Introduction to the development, nature, and processes of human adaptability. *EL*.

ZOO 140 Introduction to Wildlife Resources. 3 cr. (Same as WIL 140) Wildlife resources of the United States; the importance of wildlife to our past and present economic and cultural life; selected problems in wildlife conservation. Lecture, lab and field trips. Prereq: ZOO 101 or concurrent registration. *LS*.

ZOO 155 Biology of Human Sexuality and Reproduction. 3 cr. This course focuses on the biological aspects of human sexuality and reproduction. In addition, the following topics will be discussed from a biological perspective: birth control, venereal disease, birth defects, abortion, differences between the sexes, and the manipulation of the human reproductive process by science. *EL*.

ZOO 170 Human Anatomy and Physiology. 3 cr. (Same as PHS 170) Anatomy and physiology of the human body. Demonstration and discussion section designated to emphasize anatomy and basic physiological principles. Lecture, demonstrations and lab. Prereq: introductory CHE, BIO courses recommended. *LS*.

ZOO 203 Fertility, Reproduction, and Family Planning. 2 cr. Reproductive physiology. Historical, philosophical, cultural, religious, social, and emotional aspects of the family unit, human sexuality, and fertility control. Organizational and technical factors in birth control and family planning programs. *EL*.

ZOO 234 Human Anatomy. 3 cr. A study of the fundamental structure and organization of the organs and systems of the human body, lecture, demonstrations and lab. Students with credit in ZOO 234 and PHS 235 may not receive associate degree credit for PHS 202 and 203. Prereq: BIO course or cons. instr. *LS*.

ZOO 235 General Invertebrate Zoology. 3-5 cr. Structure, evolution, and ecology of the major groups of invertebrates. Lecture, lab and field trips. Prereq: introductory BIO course. *LS*.

ZOO 237 Vertebrate Biology. 4-5 cr. An introduction to the study of vertebrate animals considering their structure, evolution, ecology and special adaptations. Lecture, lab and field trips. Prereq: introductory BIO course. *LS*.

ZOO 277 Ornithology. 3 cr. Identification, life histories, and habits of birds, with emphasis on local species. Lecture, lab and field trips. Prereq: introductory BIO course. *LS*.

ZOO 291 Special Topics in Zoology. 1-3 cr. (Same as BOT 291) Designed to cover topics in biology

not ordinarily covered in other classes. Prereq: cons. instr. *EL*.

ZOO 299 Reading and Research in Zoology. 1-3 cr. (Same as BOT 299) Supervised undergraduate reading and research in biological sciences. This course is designed to acquaint the undergraduate with the literature and research techniques used in biological investigation, and to give practical experience in scientific problem-solving. Prereq: cons. instr. *EL*.

ZOO 430 Comparative Anatomy of Vertebrates. 5 cr. An outline of the basic vertebrate anatomical systems and a consideration of variations, using functional, embryological, and evolutionary approaches. Lecture, and lab dissection and study of representative vertebrate material. Prereq: introductory ZOO course. *LS*.

ZOO 505 Field Zoology. 3 cr. Designed to acquaint the student with the local fauna, emphasizing taxonomy. Can be used by school teachers or liberal arts students or as a background course for advanced courses such as vertebrate ecology, fishery biology, wildlife management, entomology, forestry, and agriculture. Field trips. Prereq: introductory BIO course. *EL*.

ZOO 515 Conservation of Aquatic Resources: Limnology. 2 cr. General limnology; study of lake and stream communities and their conservation. Lecture and field trips. Prereq: introductory BIO course. *EL*.

ZOO 516 Laboratory Conservation of Aquatic Resources: Limnology. 2 cr. Biological, physical, and chemical characteristics and their interrelationships in Wisconsin lakes and streams. Lab and field trips. Prereq: ZOO 515 or concurrent registration. *LS*.

BUSINESS AND ECONOMICS

BUSINESS

BUS 101 Intro to Business. 2-3 cr. Introduction to the role of business in the modern political, social, and economic environments: describes career opportunities. *EL*.

BUS 110 Personal Finance. 2-3 cr. A study of personal financial management. Examines the financial problems and consequent financial decisions required of individuals in our economy. Subjects covered are family budgeting, consumer buying decisions, borrowing, insurance, personal real estate, income taxation, investments and estate planning. *EL*.

BUS 194 Career and Life Planning. 2 cr. This course will enable students to develop career goals and lay out a path for achieving these goals. Students will examine their personal interests, aptitudes, values, decision making skills, academic plans, and career awareness. This personal, educational, and occupational information will then be organized and translated into an individualized course of action. Integration of career goals with current and future college coursework will be stressed. *EL*.

BUS 201 Introductory Accounting. 4 cr. Fundamental principles, terminology, techniques and practices; books, accounts, and financial statements for retailing and wholesaling concerns; treatment and presentation of proprietorship, partnership and

corporate accounts. Prereq: open to second semester freshmen. *EL*.

BUS 202 Intermediate Accounting. 4 cr. Accounting theory principles, concepts and procedures as applied to balance sheet and income statement accounts, Presentation and interpretation of financial statements; problems of terminology, valuation and analysis are included. Prereq: BUS 201. *EL*.

BUS 204 Managerial Accounting. 3 cr. Interpretation and use of accounting reports by management in planning, coordinating and controlling business activities, presentation, analysis and interpretation of financial data, internal control and reports to management, cost-volume profit relationships, budgets, costs and managerial decision. Prereq: BUS 201. *EL*.

BUS 210 Effective Business Communications. 2-3 cr. Study and practice of the techniques for achieving clarity, brevity, and effectiveness in business writing. Planning, preparation, criticizing of business letters, memoranda, short and long reports, and manuals of procedure. Prereq: ENG 102. *EL*.

BUS 243 Economics and Business Statistics. 3 cr. (Same as ECO 243) Elementary theory and techniques, probability and normal distribution, hypothesis testing, analysis and interpretation of economic and business data, index numbers, regression and time series analysis and Chi squares. Prereq: one semester of calculus, sophomore standing or cons. instr. *EL*.

BUS 297* Special Topics. 1-3 cr. Prereq: cons. instr. *EL*.

BUS 299* Independent Studies. 1-3 cr. Prereq: cons. instr. *EL*.

ECONOMICS

ECO 101 Survey of Economics. 3-4 cr. A study of the economic system, with emphasis on problems and policies. Among the subjects included are markets and prices, income distribution, business fluctuation, economic growth and comparative economic systems. Students with credit in ECO 203 or 204 may not receive credit; if a student takes ECO 203 or 204 after receiving ECO 101 credit, that credit will not apply toward associate degree requirement. *SS*.

ECO 203 Economics—Macro. 3-4 cr. The emphasis of the course is on macro analysis and covers such areas as national income, commercial banking, business fluctuations, monetary and fiscal policies and economic growth. Designed for students who desire a basic one-year course (with ECO 204) in economics. Prereq: sophomore standing or cons. instr recommended. *SS*.

ECO 204 Economics—Micro. 3-4 cr. Emphasizes the micro economic approach concerning households, firms, and market structures with a focus on price determination and distribution of income. Foreign trade and international financial institutions are included. Prereq: sophomore standing or cons. instr recommended. *SS*.

ECO 230 Money and Banking. 3 cr. A study of the structure and operations of the commercial banking system and other financial institutions, central banking and monetary policy, monetary systems and their developments; theories of money, income

and prices and their economic effect on the economy, impact of fiscal policy and international finance on monetary policy. Prereq: ECO 101, 203 or equivalent. *SS.*

ECO 243 Economics and Business Statistics. 3 cr. (Same as BUS 243) Elementary theory and techniques, probability and normal distribution, hypothesis testing, analysis and interpretation of economic and business data, index numbers, regression and time series analysis and Chi squares. Prereq: one semester of calculus, sophomore standing or cons. instr. *EL.*

ECO 250 Government and Business. 3 cr. A survey of government activities affecting business: legal and economic problems in the control of competitive practices, regulation of business, public expenditures and subsidies, and public enterprise. Stresses government regulation of business and anti-trust policies. Prereq: ECO 204. *SS.*

ECO 271 Economic Development of the Middle East. 3 cr. Economic aspects of the struggle for a rising standard of living and stability in the Arab countries, Turkey, Iran and Israel: scarcity, choice, efficiency and growth. Comparison of the structure of economic organization and balance of payments. Case studies of development policies in the last two decades. Prereq: ECO 101, 203 or 204. *SS.*

ECO 297 Special Topics. 1-3 cr. Prereq: cons. instr. *EL.*

ECO 299 Independent Studies. 1-3 cr. Prereq: cons. instr. *EL.*

CHEMISTRY

CHE 100 Foundations of Chemistry. 1-3 non-degree cr. Emphasizes fundamental chemical concepts. May be taken before, or concurrently with, CHE 125 or CHE 145. Prereq: none. Intended for students who have had no previous chemistry, or have a limited background in chemistry. **Course does not carry degree credit.**

CHE 124 Natural Science Chemistry. 4 cr. Non-mathematical look at our chemical world of drugs, pollutants, household chemicals, food additives, etc. Lectures and laboratories. Not a suitable prerequisite for professional chemistry courses. *LS.*

CHE 125 Introductory Chemistry. 5 cr. A one semester introductory course in college chemistry with special emphasis on organic chemistry. Consists of lectures, discussion and laboratories. Primarily for students whose programs require only CHE 125 or CHE 125-203 combination. Concurrent registration in CHE 100 may be required. Students may not count both CHE 125 and 145 toward laboratory science requirement for their degree. Prereq: working knowledge of algebra recommended. *LS.*

CHE 145 General Chemistry. 5 cr. The first semester of a one year course in college chemistry. Consists of lectures, discussions, and laboratories. For students whose programs require a year of college chemistry or who plan to take advanced courses in chemistry. Concurrent registration in CHE 100 may be required. Students may not count both CHE 125 and 145 toward laboratory science requirement for their associate degree. Prereq: dem-

onstrated competency at MAT 105 level or concurrent MAT 105 registration. *LS.*

CHE 155 General Chemistry. 5 cr. Continuation of CHE 145. Consists of lectures, discussions and laboratories. Prereq: CHE 145. *LS.*

CHE 203 Survey of Biochemistry. 3 cr. An elementary course in the chemical makeup and metabolic processes of living organisms. For non-science majors. Three hours of lectures per week. Together CHE 125 and 203 constitute a year course with emphasis on organic and biological chemistry for non-science majors. Prereq: CHE 125 or 145 with cons. instr. If taken alone; *EL*; if combined with CHE 211 *LS.*

CHE 211 Biochemistry Laboratory. 1 cr. Laboratory to accompany CHE 203. Three hours of laboratory per week. This course is highly recommended for degree nursing students. Prereq: CHE 203 or concurrent registration. *LS.*

CHE 214 Physiological Chemistry. 3 cr. Lectures and demonstrations on elementary aspects of organic and physiological chemistry; provided for students who have not had organic chemistry. For students interested in physical therapy. Prereq: CHE 125 or CHE 145 with cons. instr. *EL.*

CHE 233 Nutrition—A Biochemical Approach. 3 cr. A one semester course primarily for students enrolled in certain pre-medical programs where a course in elementary nutrition is needed. Prereq: CHE 125. *EL.*

CHE 244 Quantitative Analysis. 4 cr. A course in the fundamentals of quantitative analysis. Two hours of lecture-discussion and 6-8 hours of laboratory per week. Prereq: CHE 155. *LS.*

CHE 272 Special Problems. 2 cr. An advanced study of the numerical problems of chemistry. Two hours of lecture-discussion per week. Recommended for all students who plan to take further courses in chemistry. Prereq: CHE 155 or concurrent registration. *EL.*

CHE 290 Special Topics in Chemistry. 1-3 cr. Prereq: cons. instr. *EL.*

CHE 299 Independent Study in Chemistry. 1-3 cr. Prereq: cons. instr. *EL.*

CHE 343 Introductory Organic Chemistry. 3 cr. The first semester of a year course in organic chemistry. Three hours of lecture per week. Prereq: CHE 155. If taken alone, *EL*; if combined with CHE 352, *LS.*

CHE 352 Introductory Organic Chemistry Laboratory. 2 cr. Six-eight hours of laboratory per week. Prereq: CHE 343 or concurrent registration. *LS.*

CHE 363 Intermediate Organic Chemistry. 3 cr. Continuation of Chemistry 343. Three hours of lecture per week. Prereq: CHE 343. *EL.*

Not all courses listed here are offered at all centers. See your campus timetable or the course offerings.

COMMUNICATION ARTS

COM 100 Applied Journalism. 1 cr. Practical application of the principles of observing, reporting, writing and editing, photography and management for journalism publications or newscasts. Students work for a campus publication or broadcasting

project and submit copies and reports of their work to the instructor for evaluation and critique. *EL.*

COM 101 Introduction to Interpersonal Communication. 3 cr. A course aimed at increasing the student's awareness of how he/she and others communicate and at improving communication with others in one-to-one and small group situations. *EL.*

COM 102 Forensics Laboratory. 1 cr. Participation in forensics activities, including but not limited to oral interpretation, oratory, extemporaneous speaking, after-dinner speaking, impromptu speaking, debate, discussion, play reading. Preparation of special programs. It is possible to register in more than one section with cons. instr.

Sect. 1 Discussion-Debate	1 cr. <i>EL.</i>
Sect. 2 Rhetoric	1 cr. <i>EL.</i>
Sect. 3 Interpretation	1 cr. <i>EL.</i>

COM 103 Introduction to Public Speaking. 3 cr. Study of the principles and techniques of effective speech and an application of these fundamentals in a variety of selected communication experiences. *EL.*

COM 110 Listening. 2-3 cr. An introduction to the theories, research, behaviors and skills associated with the process of listening. Application of content material will be explored and analyzed through classroom exercises and evaluations. *EL.*

COM 130 Introduction to Theatre. 3 cr. A study of theater as an art form. Emphasis is on the role of the audience and the understanding and appreciation of the nature of theater, important plays, dramatic styles, and the elements of a theatrical production. *HU.*

COM 131 Theatre Laboratory. 1 cr. Participation in theatrical production activities including directing, management, technical production, lighting, stage design, costuming, make-up, acting, and theatre management. It is possible to register in more than one section with cons. instr.

Sect. 1 Acting	1 cr. <i>EL.</i>
Sect. 2 Technical production	1 cr. <i>EL.</i>
Sect. 3 Theater management	1 cr. <i>EL.</i>

COM 150 Introduction to Film. 3 cr. Study of the nature and development of film as a distinctive medium of communication, and as an art form. *HU.*

COM 160 Speech and Human Behavior. 3 cr. The study of people as complex communicators who through physical, behavioral and linguistic signs send and receive messages in a variety of social and cultural interactions. Prereq: COM 101. *HU.*

COM 201 Introduction to Mass Communication. 3 cr. A survey course which examines mass media practices, theories and research. *SS.*

COM 202 Mass Communication and Contemporary Issues. 3 cr. Analysis of contemporary public issues as reported in the mass media with emphasis on news and feature content of radio, television, newspapers and other periodicals. Techniques of content analysis and survey research. Specific issues for study to be determined at the time the course is offered. Prereq: COM 201 or cons. instr. *EL.*

COM 203 News and Informational Writing. 3 cr. Instruction and practice in written communication of factual materials, under direct guidance of instructor. Course treats writing for news media, but spends time on procedures and techniques which

are basic for all informational writing. Prereq: typing proficiency recommended and the satisfactory completion of English 101, or equivalent documentation of language skills. *EL*.

COM 204 News Reporting. 3 cr. Emphasis on the gathering of news and interviewing. Field work in the community. Typing proficiency recommended and the satisfactory completion of English 101, or equivalent documentation of language skills. Prereq: Comm. Arts 203 or cons. instr. *EL*.

COM 220 Introduction to Radio Broadcasting. 3 cr. A study of the principles and practices of contemporary radio production and programming, including laboratory work. *EL*.

COM 221 Introduction to Television Broadcasting. 3cr. The study of the principles and practices of contemporary television production and programming, including laboratory work. *EL*.

COM 230 Introduction to Oral Interpretation. 3 cr. Appreciation of literature through critical analysis and the oral re-creation of literary materials. *HU*.

COM 232 Introduction to Acting. 3 cr. Exploration of the actor's self through exercises and improvisations to enhance concentration of attention, observation, imagination and sensory responsiveness. *HU*.

COM 234 Introduction to Stagecraft. 3 cr. Theories and techniques of stagecraft, such as set design and construction, scene painting, stage lighting, costuming, and make-up. *EL*.

COM 266 Group Discussion. 3 cr. Study of the structure and dynamics of small group decision making. Includes critical and creative problems in group interaction processes. *HU*.

COM 267 Introduction to Parliamentary Procedure. 1-2 cr. Theory and practice of parliamentary procedure, conducting business meetings, forming organizations, and drawing up constitutions and by-laws. *HU*.

COM 268 Persuasion. 3 cr. Principles and methods of persuasion, with practice in the preparation and delivery of various types of persuasive speeches. Prereq: COM 103 or cons. instr. *HU*.

COM 298 Topics in Speech and Dramatic Arts. 1-3 cr. The nature and subject of this course will be announced in the timetable. Prereq: may be determined by instructor. *EL*.

COM 299* Independent Studies. 1-3 cr. Readings, reports, papers, or projects to be determined by the individual instructor. Prereq: introductory COM course and cons. instr. *EL*.

COM 348 Creative Dramatics for Children. 3 cr. Theory and function of creative dramatics and applications in elementary education. *HU*.

COM 349 Children's Theatre Production. 3 cr. Methods of directing, designing, and producing plays for the child audience. Examination of scripts, and study of techniques in adapting children's literature for the stage. *HU*.

COMPUTER SCIENCE

CPS 100 Computers and Society. 1-3 cr. Study of the functions of computers, their applications and

the resultant social changes, both desirable and undesirable. Consideration of the value systems that are threatened as computer technology continues to expand. No programming required. *EL*.

CPS 101 Computer Orientation. 1 cr. An introduction to the campus computing set-up. Emphasis on what computers can do; using computers rather than programming them. *EL*.

CPS 110 Introduction to Computer Science (BASIC). 3 cr. How computers work, communicating with computers, areas of application and significance, simple Algebraic Language programming, elementary data processing and problem solving. Instruction and significant experience in BASIC with possible exposure to a second language. Prereq: intermediate high school mathematics or MAT course. *EL*.

CPS 111 Introduction to Computer Science (FORTRAN). 3 cr. Same as CPS 110 except FORTRAN is primary language. *EL*.

CPS 113 Introduction to Computer Science (Pascal). 3 cr. Same as CPS 110 except Pascal is primary language. *EL*.

CPS 120 Introduction to Data Processing. 3 cr. A study of the methods and concepts of gathering data and converting it into information. Emphasis will be on computer data processing and will include such topics as program preparation and documentation, time sharing, storage and information retrieval, computer arithmetic and data representation, BASIC, FORTRAN, and COBOL programming. Prereq: MAT 110, 124 or equivalent. *EL*.

CPS 130 Introduction to Programming (BASIC). 1-2 cr. The basics of programming for beginners. Introductory information on editing, program structure, data types, input, output, calculating, looping and selection. Short programs will be written and tested on a computer. *EL*.

CPS 131 Intro to Programming (FORTRAN). 1-2 cr. Same as CPS 130 except FORTRAN is primary language. *EL*.

CPS 133 Intro to Programming (Pascal). 1-2 cr. Same as CPS 130 except Pascal is primary language. *EL*.

CPS 210 Algebraic Language Programming (BASIC). 3 cr. Construction of algorithms; flow-charting and documentation; instruction and extensive experience in the use of a procedure-oriented language (BASIC) emphasizing modular programming techniques; optional topics. Prereq: MAT 211 or 221 or concurrent registration, previous programming experience or cons. instr. *EL*.

CPS 211 Algebraic Language Programming (FORTRAN). 3 cr. Same as CPS 210 except FORTRAN is primary language. *EL*.

CPS 213 Algebraic Language Programming (Pascal). 3 cr. Same as CPS 210 except Pascal is primary language. *EL*.

CPS 231 Numerical Methods. 2 cr. An introduction to numerical analysis designed for engineers, mathematicians, physicists and computer scientists. Topics include: evaluation of functions, finding zeroes of functions, quadrature, numerical solution of linear algebraic equations and methods for ordinary differential equations. Prereq: MAT 222 and CPS 210, 211 or 213. *EL*.

CPS 240 Problem Solving with BASIC. 3 cr. This course is a continuation of CPS 210. It contains a review of beginning BASIC and continues into more advanced topics, typically to include such things as multidimensional arrays, record structure and file handling. Emphasis on problem solving, algorithm development and programming style. Prereq: CPS 210 or equivalent. *EL*.

CPS 241 Problem Solving with FORTRAN. 3 cr. Same as CPS 240 except FORTRAN is primary language. *EL*.

CPS 243 Problem Solving with Pascal. 3 cr. Same as CPS 240 except Pascal is primary language. *EL*.

CPS 250-260 Programming in Computer Language. 2-3 cr. These courses are designed to teach a new programming language to a student who already has experience in programming. The number of credits is determined by the depth of study in the particular language. Note: These courses may not be taken for credit by a student whose previous programming experience lies in that particular language. Prereq: CPS 110, 111 or 113 or CPS 210, 211 or 213 or cons. instr. *EL*.

CPS 250 BASIC; CPS 251 FORTRAN; CPS 252 COBOL; CPS 253 Pascal; CPS 254 PL/1; CPS 255 APL; CPS 260 Assembly language. *EL*.

CPS 270 Data Structures. 3 cr. An introduction to the data structures used for representing information involved in problem solving. Topics covered include stacks, queues, linked lists, trees, graphs, searching, sorting, hash tables, and dynamic storage allocation. Prereq: CPS 210, 211 or 213. *EL*.

CPS 291 Special Topics. 1-3 cr. In depth treatment of subjects introduced in CPS 110, CPS 210 or other courses. Choice of topics depends on student interest, staff and equipment availability. Typical topics include: file handling, operating systems, social implications, simulation, management tools, specialized languages, current technology, numerical methods, artificial intelligence, digital logic. Prereq: CPS 110, 210 or cons. instr. *EL*.

CPS 299 Independent Study in Computer Science. 1-3 cr. *EL*.

ECONOMICS

(See Business and Economics)

EDUCATION

EDU 100 Concepts and Issues in Education. 1 cr. Colloquium related to experiences in off-campus classroom placements (EDU 200). Discussion of educational principles, concepts and issues related to student-teacher-school-community interactions, including developmental aspects, sociocultural influences and human relations. Two hours per week. Pass/fail. Prereq: concurrent EDU 200 registration. *EL*.

EDU 101 Orientation to Public Education. 2 cr. An overview of the cultural, historical, philosophical, and psychological bases for public education in American society. An exploration of the aims of education in American public schools with the impli-

cations for teachers, curricula and physical facilities. Lab experiences are required. *EL*.

EDU 200 Field Experience in Education. 2 cr. 5 hours per week of off-campus experience involving active participation in the program at an educational institution. May be taken only with concurrent registration in PSY 203 for one credit or a similar seminar experience involving an average of two hours per week of on-campus instruction covering concepts related to human development and learning, social/cultural influences, and social institutions, as they apply to the educational process. *EL*.

EDU 251 Physical Education Field Experience. 2 cr. (Same as EDU 200.) Active involvement in the learning activities of an educational setting (i.e. school, agency, institution) which offers a physical education program plus participation in three evening seminars. Placement involves five hours of participation per week. *EL*.

EDU 283 Literature for Children. 3 cr. Folk literature including the fairy tale, fable, myth, epic and tall tales. Emphasis on modern fanciful and realistic fiction. Traditional and modern poetry. Ways of presenting literature to children. *EL*.

EDU 300 The Exceptional Child. 3 cr. Study of the definition, classification, and etiology of conditions creating special education needs. Topics reviewed include: intellectually retarded, gifted, emotionally disturbed, and the speech, auditorily, visually, orthopedically, and neurologically impaired. Prereq: PSY 201 or 202; 560 recommended. *EL*.

EDU 330 Educational Psychology. 3-4 cr. A study of the developmental process in children and psychological principles of teaching and learning. Emphasis will be placed on understanding children, their developmental stages, their growth and maturation—social, emotional, physical, intellectual. Attention will be directed toward the nature and conditions of learning, including the major types of learning, critical aspects of learning, and the problems encountered in fostering and directing learning. Prereq: PSY 201 or 202. *EL*.

ENGINEERING

EGR 100 Engineering Freshman Orientation. 1 cr. Discussion of what is actually done by engineers in the various fields. Also covers professional ethics, responsibilities to society, environmental technology assessment, and professional registration. May be taken by non-engineering majors. *EL*.

EGR 106 Technical Communications. 3 cr. This course will cover graphical, oral, and written presentations. The course would be useful to any discipline requiring report writing or data analysis. *EL*.

ENGINEERING GRAPHICS

GRA 102 Elements of Descriptive Geometry. 3 cr. Orthographic projection and its application to the analysis and solution of three-dimensional problems involving points, lines, planes and solids; axonometric projections for pictorial representation with engineering applications. The class meets six

hours each week to allow the student to do most of the drawing under the supervision of the instructor. Prereq: intermediate MAT or cons. instr. *EL*.

GRA 113 Introduction to Design Methods and General Engineering Graphics. 3 cr. Methodology of developing product and system solutions to design problems. Emphasis on techniques of problem identification, ideation, optimization, implementation, and technical communication. Application of methodology to individual or group design project. Advanced principles of projection and graphical analysis, sectional views, dimensioning, assembly drawings, mechanisms, graphs, and topography. The class meets six hours each week to allow the student to do most of the drawing under the supervision of the instructor. Prereq: GRA 102 or cons. instr. *EL*.

ENGINEERING MECHANICS

MEC 201 Statics. 3 cr. Principles of mechanics, force systems, equilibrium, structures, distributed forces, moments of inertia of areas, and friction. The course will serve the requirements of the several engineering curricula. Prereq: MAT 221. *EL*.

MEC 202 Dynamics. 3 cr. Kinematics, force-mass-acceleration relations, work and energy, impulse and momentum, moments of inertia of mass. This course will serve the requirements of the several engineering curricula. Prerequisites: MEC 201, MAT 222. *EL*.

MEC 203 Strength of Materials. 3-5 cr. Stress and strain, torsion, bending of beams, compound stresses, principal stresses, deflections of beams, statically indeterminate members, columns, elastic buckling, fatigue, creep, impact, concrete properties. Lab required if taken for 4 or 5 credits. Prereq: MEC 201. *LS*.

ENGINEERING GRAPHICS

(See Engineering)

ENGINEERING MECHANICS

(See Engineering)

ENGLISH AND LITERATURE

ENG 101 Composition I. 3 cr. A writing course that focuses on coherent development of paragraphs and short essays, stressing proficiency in sentence structure, grammar, diction, and punctuation. Completion of this course will satisfy the prerequisites for ENG 102 and 250, in lieu of sufficiently high placement test scores. Not open to students eligible for ENG 102 because of their test scores except with cons. instr. *RC*.

ENG 102 Composition II. 3 cr. A rhetoric course that focuses on writing which presents information and ideas clearly and effectively, with emphasis on

the essay and the documented source paper. Prereq: ENG 101, sufficiently high placement test scores or cons. instr. based on demonstrated writing ability. *RC*.

ENG 201 Intermediate Composition. 3 cr. A course devoted to the theory and practice of writing prose that presents information and ideas and is intended to inform and/or persuade. Emphasis will be placed on coherent organization, clear and forceful phrasing, logical thinking and other aspects of effective communication. Prereq: ENG 102, 202 or cons. instr. *EL*.

ENG 202 Writing about Literature. 3 cr. Studying and writing about various types of literature. Develops the ability to write critical, analytical, and explicative papers about literature. Prereq: ENG 102, 201 or cons. instr. *HU*.

ENG 203 Creative Writing I. 3 cr. Chiefly devoted to writing and studying one or more of the following: fiction, poetry, and drama. Prereq: ENG 102, 202 or cons. instr. *EL*.

ENG 204 Creative Writing II. 3 cr. A continuation of ENG 203. Prereq: ENG 203 or cons. instr. *EL*.

ENG 210 Business Writing. 2-3 cr. Study and practice of the techniques of achieving clarity, brevity and effectiveness in business writing. Planning, preparation, criticizing of business letters, memoranda, short and long reports and manuals of procedure. Prereq: ENG 102 or cons. instr. *EL*.

ENG 220 Introduction to the English Language. 3 cr. A beginning course in the study of the English language, concerned with such subjects as the history and structure of the language, development of dictionaries, changing meanings of words, and types of grammar. An elective open to freshman but not as a substitute for ENG 101, 102 or 202. *HU*.

ENG 250 Introduction to Literature. 3 cr. Intensive analysis of literature, including poetry, drama, and fiction, using representative types, primarily from several periods of English and American literature. Not open to student with credit in ENG 251, 253 or 255. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 251 Introduction to Dramatic Literature. 3 cr. Intensive analysis of dramatic literature using representative types, primarily from several periods of English and American drama. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 253 Introduction to Narrative Literature 3 cr. Intensive analysis of fiction using representative types, primarily from several periods of English and American literature. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 255 Introduction to Poetry. 3 cr. Intensive analysis of poetry using representative types, primarily from several periods of English and American literature. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 260 English Literature Before 1798. 3 cr. A study of the development of British literature before 1798 through a survey of representative literary works. Not open to students with credit in ENG 270. Prereq: ENG 101 (or exemption based on

placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 261 English Literature After 1798. 3 cr. A study of the development of British literature after 1798 through a survey of representative literary works. Not open to students with credit in ENG 270. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 262 American Literature Before 1865. 3 cr. A study of the development of American literature before 1865 through a survey of representative literary works. Not open to students with credit in ENG 272. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 263 American Literature After 1865. 3 cr. A study of the development of American literature after 1865 through a survey of representative literary works. Not open to students with credit in ENG 272. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 264 World Literature Before 1700. 3 cr. Selected masterpieces of world literature from ancient time to the end of the seventeenth century. Not open to students with credit in ENG 274. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 265 World Literature After 1700. 3 cr. Selected masterpieces of world literature from the end of the seventeenth century to the present. Not open to students with credit in ENG 274. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 266 Modern Literature (Before 1945). 3 cr. A study of the development of modern literature through the examination of significant and representative works, primarily British and American, written between approximately 1900 and 1945. Not open to students with credit in ENG 276. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 267 Contemporary Literature (After 1945). 3 cr. A study of the development of contemporary literature through the examination of significant and representative works, primarily British and American, written after approximately 1945. Not open to student with credit in ENG 276. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 270 English Literature. 3 cr. A study of the nature of British literature through the examination of representative literary works by major British authors. Not open to students with credit in ENG 260 or 261. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 272 American Literature. 3 cr. A study of the nature of American literature through the examination of representative literary works by major American authors. Not open to students with credit in ENG 262 or 263. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 274 World Literature. 3 cr. A study of selected masterpieces of world literature. Not open to stu-

dents with credit in ENG 264 or 265. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 276 Twentieth Century Literature. 3 cr. A study of the nature of twentieth century literature through the examination of representative literary works by significant authors, primarily British and American, of the twentieth century. Not open to students with credit in ENG 266 or 267. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 280 Introduction to Shakespeare. 3 cr. A study of representative plays and sonnets. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 290 Special Topics. 1-2 cr. Designed to cover topics which cannot be accommodated in usual course format or by other courses. Topics will be specified in campus timetable. Program must be approved by the UW Centers' department chair. Prereq: cons. instr. *HU/LI*.

ENG 299 Independent Study. 1-3 cr. Program must be approved by the UW Centers' department chair. Prereq: cons. instr. *HU/LI*.

ENG 351 Studies in Dramatic Literature. 3 cr. An exploration of some aspect of drama or the theory of drama, of the internal history of the genre or the distinctive character of the mode, and its application in practical criticism to an appropriate body of primarily English and American literature. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 353 Studies in Narrative Literature. 3 cr. An exploration of some aspect, problem, or distinctive variety of narrative or the theory of narrative, in such forms as the novel, the short story, the epic, the romance, and its application in practical criticism to an appropriate body of primarily English and American literature. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 355 Studies in Poetry. 3 cr. An exploration of some aspect of poetic theory and practice, generally in terms of the shorter verse forms, and its application in practical criticism to an appropriate body of primarily English and American literature. Prereq: ENG 101 (or exemption based on placement test score) or ENG 102 or cons. instr. *HU/LI*.

ENG 370 A Theme in English and/or American Literature. 3 cr. This theme varies from time to time and may be, for example, philosophical, social, political, or psychological. Program must be approved by the UW Centers' department chair. Prereq: ENG 101 (or exemption based on test placement score) or ENG 102 or cons. instr. *HU/LI*.

ENG 380 A Figure or Figures in English and/or American Literature. 3 cr. The figure or figures may be one writer, such as Milton, or a group of writers, such as English Romantic poets of the nineteenth century or Black writers of twentieth century America. Program must be approved by the UW Centers' department chair. Prereq: ENG 101 (or exemption based on test placement score) or ENG 102 or cons. instr. *HU/LI*.

FOREIGN LANGUAGE

FRENCH

FRE 101 First Semester French. 4 cr. For students who have had no previous training in the language. Emphasis on oral practice, grammar and reading. Field trip may be required. *EL*.

FRE 102 Second Semester French. 4 cr. Continuation of FRE 101. Field trip may be required. Prereq: FRE 101 or cons. instr. *EL*.

FRE 118 Practical Spoken French. 1-2 cr. Emphasis on the spoken language in everyday contexts. Carries elective credit only. Not part of the sequence of required foreign language courses. Prereq: cons. instr. *EL*.

FRE 119 Practical Spoken French. 1-2 cr. Emphasis on the spoken language in everyday contexts. Carries elective credit only. This course is not part of the required foreign language sequence. Prereq: French 118. *EL*.

FRE 201 Third Semester French. 4 cr. Intensive and extensive reading, grammar review, elementary composition and development of oral facility. Field trip may be required. Prereq: FRE 102 or cons. instr. *EL*.

FRE 202 Fourth Semester French. 4 cr. A continuation of FRE 201. Field trip may be required. Prereq: FRE 201 or cons. instr. *HU*.

FRE 215 Elementary Conversation and Composition. 1-2 cr. May be taken concurrently with FRE 201 or by itself. For persons desiring further development of oral and writing skills related to everyday topics. Carries no retroactive credit. Prereq: FRE 102 or equivalent. *HU*.

FRE 219 French for Business. 2-3 cr. Designed to acquaint the student with the vocabulary and practices of the business community. Oral and written practice in the preparation of letters and forms. Carries no retroactive credit for work completed in high school. Prereq: FRE 201 or cons. instr. *HU*.

FRE 221 Introduction to French Literature, Middle Ages to Eighteenth Century. 3 cr. Masterpieces in the novel, drama, poetry, and essay. Lectures, discussion, exercises in interpretation. Prereq: FRE 202 or equivalent. *HU/LI*.

FRE 222 Introduction to French Literature, Eighteenth and Nineteenth Century. 3 cr. Masterpieces in the novel, drama, poetry, and essay. Lectures, discussion, exercises in interpretation. Prereq: FRE 202 or equivalent. *HU/LI*.

FRE 223 Introduction to French Literature, Twentieth Century. 3 cr. Masterpieces in the novel, drama, poetry, and essay. Lectures, discussions, exercises in interpretation. Prereq: FRE 202 or equivalent. *HU/LI*.

FRE 225 Conversation and Composition (Intermediate Level). 2-3 cr. Development of facility in oral and written French. Prereq: FRE 202 or equivalent with cons. instr. *HU*.

FRE 226 Conversation and Composition (Intermediate Level). 2-3 cr. Continuation of FRE 225. Prereq: FRE 225 or cons. instr. *HU*.

FRE 275 Masterpieces of French Literature in Translation. 3 cr. Study of representative master-

pieces of modern French literature, in English translation. No foreign language credit. *HU/LI*.

FRE 276 Twentieth Century French Literature in Translation. 3 cr. Study of selected works of twentieth century French literature, in English translation. No foreign language credit. *HU/LI*.

FRE 277 Special Topics in Literature in Translation. 2-3 cr. Treats various topics in French literature in translation to be specified by the instructor in campus timetable. No foreign language credit. *HU/LI*.

FRE 291 Selected Topics in French. 2-3 cr. Prereq: FRE 202 and cons. instr. Topic will be specified in campus timetable. *HU/LI*. (If so specified in timetable.)

FRE 299 Intermediate Independent Reading. 1-3 cr. Readings, discussions, reports, papers to be determined by individual instructor. Meetings to be arranged. Prereq: FRE 202, or equivalent, and cons. instr. *HU/LI*. (If so specified in timetable.)

GERMAN

GER 101 First Semester German. 4 cr. For students with no previous knowledge of German. Emphasis on reading, oral practice and grammar. Field trip may be required. *EL*.

GER 102 Second Semester German. 4 cr. Continuation of GER 101. Field trip may be required. Prereq: GER 101 or cons. instr. *EL*.

GER 118 Practical Spoken German. 1-2 cr. Emphasis on the spoken language in everyday contexts. Carries elective credit only. Not part of the sequence of required foreign language courses. Prereq: cons. instr. *EL*.

GER 119 Practical Spoken German. 1-2 cr. Emphasis on the spoken language in everyday contexts. Carries elective credit only. This course is not part of the required foreign language sequence. *EL*.

GER 201 Third Semester German. 4 cr. Intensive reading, writing, grammar review and continued oral practice. Field trip may be required. Prereq: GER 102 or cons. instr. *EL*.

GER 202 Fourth Semester German. 4 cr. Continuation of GER 201. Field trip may be required. Prereq: GER 201 or cons. instr. *HU*.

GER 215 Elementary Conversation and Composition. 2 cr. May be taken concurrently with GER 201 or by itself. For persons desiring further development of oral and writing skills related to everyday topics. Prereq: GER 102 or equivalent. Carries no retroactive credit. *HU*.

GER 216 Elementary Conversation and Composition. 2 cr. May be taken concurrently with GER 202. Prereq: GER 215 or cons. instr. Carries no retroactive credit. *HU*.

GER 219 German for Business. 2-3 cr. Designed to acquaint the student with the vocabulary and practices of the business community. Oral and written practice in the preparation of letters and forms. Carries no retroactive credit for work completed in high school. Prereq: GER 201 or cons. instr. *HU*.

GER 221 Introduction to German Literature. 3 cr. Selected readings in a survey of German literature; discussion; transition from language study to study

of literature. Also carries credit as a humanities elective. Prereq: GER 202 or equivalent. *HU/LI*.

GER 222 Introduction to German Literature. 3 cr. Continuation of GER 221. Also carries credit as a humanities elective. Prereq: GER 221 or equivalent. *HU/LI*.

GER 225 Intermediate Composition and Conversation. 2-3 cr. Grammar review and conversation. Extensive composition practice. Prereq: GER 202 or equivalent. *HU*.

GER 226 Intermediate Composition and Conversation. 2-3 cr. Continuation of GER 225. Prereq: GER 225 or equivalent. *HU*.

GER 275 Periods in German Literature in Translation. 3 cr. Study of representative masterpieces of German literature up to 1900, in English translation. Carries credit as a humanities elective. No foreign language credit. *HU/LI*.

GER 276 German Literature of the Twentieth Century in Translation. 3 cr. Study of German literature of the present century, in English translation. Carries credit as a humanities elective. No foreign language credit. *HU/LI*.

GER 277 Special Topics in Literature in Translation. 2-3 cr. Treats various topics in German literature in translation to be specified by the instructor in campus timetables. Carries credit as a humanities elective. No foreign language credit. *HU/LI*.

GER 291 Selected Topics in German. 2-3 cr. Prereq: GER 202 and cons. instr. Topics will be specified in campus timetable. *HU/LI*. (If so specified in timetable.)

GER 299 Independent Reading. 1-3 cr. An independent reading course which helps advanced students fulfill requirements for a major in German upon transferring to a degree-granting institution. Content to be determined by the instructor in counsel with the student. *HU/LI*. (If so specified in the timetable.)

SPANISH

SPA 101 First Semester Spanish-Elementary Spanish. 4 cr. Spanish grammar, elementary reading, oral practice and cultural background. For students who have had no Spanish. Field trip may be required. *EL*.

SPA 102 Second Semester Spanish-Elementary Spanish. 4 cr. A continuation of SPA 101. Field trip may be required. Prereq: SPA 101 or cons. instr. *EL*.

SPA 118 Practical Spoken Spanish. 1-2 cr. Emphasis on the spoken language in everyday contexts. Carries elective credit only. Not part of the sequence of required foreign language courses. Field trip may be required. Prereq: cons. instr. *EL*.

SPA 119 Practical Spoken Spanish. 1-2 cr. Emphasis on the spoken language in everyday contexts. Carries elective credit only. This course is not part of the required foreign language sequence. *EL*.

SPA 201 Third Semester Spanish-Intermediate Level. 4 cr. Grammar review; intensive class reading; study of vocabulary, idioms and syntax; oral and composition practice. Field trip may be required. Prereq: SPA 102 or cons. instr. *EL*.

SPA 202 Fourth Semester Spanish-Intermediate Level. 4 cr. A continuation of SPA 201. Field trip may be required. Prereq: SPA 201 or cons. instr. Exceptional students may be permitted to take SPA 202 and SPA 225 concurrently with department consent. *HU*.

SPA 219 Spanish for Business. 2-3 cr. Designed to acquaint the student with the vocabulary and practices of the business community. Oral and written practice in the preparation of letters and forms. Does not carry retroactive credit for work completed in high school. Prereq: SPA 201 or cons. instr. *HU*.

SPA 221 Introductory Survey of Spanish Literature. 3 cr. Introduction to the study of Spanish literature, 18th to 20th centuries; readings, discussions, literary history. Prereq: SPA 202 or equivalent. *HU/LI*.

SPA 222 Introductory Survey of Spanish Literature. 3 cr. Twelfth to 17th centuries. Prereq: SPA 202 or equivalent. *HU/LI*.

SPA 225 Intermediate Conversation and Composition. 2-3 cr. Emphasis on oral and composition practice. Prereq: SPA 202 or equivalent. *HU*.

SPA 226 Intermediate Conversation and Composition. 2-3 cr. A continuation of SPA 225. Prereq: SPA 225 or equivalent. *HU*.

SPA 236 Latin-American Culture and Civilization. 3 cr. Lectures and readings, in English, on the art, music, architecture, political, social and economic problems of Latin America from Pre-Columbian times to the present. No knowledge of Spanish required. Open to all freshmen and sophomores. Elective or humanities credit only; no foreign language credit. *HU*.

SPA 266 Masterpieces of Latin-American Literature in Translation. 3 cr. Study of representative masterpieces of modern Latin-American literature, in English translations. No foreign language credit. *HU/LI*.

SPA 275 Masterpieces of Spanish Literature in Translation. 3 cr. Presentation of the culture of the Spanish people and its relation to that of Western Europe and America through study of Spanish literary masterpieces, in English translation. No foreign language credit. *HU/LI*.

SPA 277 Special Topics in Literature in Translation. 2-3 cr. Treats various topics in Spanish literature, in English translation, to be specified by the instructor in the campus timetable. No foreign language credit. *HU/LI*.

SPA 291 Selected Topics in Spanish. 2-3 cr. Topics will be specified in the campus timetable. Prereq: SPA 202 and cons. instr. *HU/LI*. (If so specified in timetable.)

SPA 299 Intermediate Independent Reading. 2-3 cr. For exceptional students in lieu of a regular course. Readings, discussions, reports, papers to be determined by individual instructor. Meetings to be arranged. Prereq: SPA 202, or equivalent, and cons. instr. *HU/LI*. (If so specified in timetable.)

GEOGRAPHY

GEO 101 Introduction to Cultural Geography. 3-4 cr. An examination of world distribution patterns

of population, settlement and cultural forms and their causal relationships. *SS*.

GEO 104 Landscapes of North America. 3-4 cr. (Same as GLG 104.) A general survey of the characteristics and origins of major natural/physical regions of North America, with an emphasis on national parks and monuments and other public areas. *EL*, 3 cr.; *LS*, 4 cr.

GEO 110 World Regional Geography. 3-4 cr. Introduction to cultural geography through the study of representative and significant regions and nations. *SS*.

GEO 115 Economic Geography. 3-4 cr. Analysis of location of population and the distribution and character of the leading global economic activities: agriculture, fishing, forestry, mining, manufacturing, transportation and trade. Field trips. *SS*.

GEO 120 Survey of Physical Geography. 3-4 cr. Characteristics and world distribution of physical factors which in combination form the natural environment: elements of weather and climate, climatic types, earth materials, landforms and earth resources. Two hours of lab per week. Field trips. May not be taken for credit by students who have had GEO 123 or 124. *LS*.

GEO 121 Atmospheric Environment of Humankind. 2 cr. The interaction of humans and their societies with the atmospheric environment. *EL*.

GEO 123 Physical Geography: Weather and Climate. 4-5 cr. The form of the earth; earth-sun relationships; elements of climate; characteristics, distribution, and significance of climatic types; the seas; natural vegetation and soils. Lab and field trips. *LS*.

GEO 124 Physical Geography: Landforms. 4-5 cr. Introduction to maps; characteristics, distribution, and significance of landform types; the continental margins and the sea floors; water resources of the land; and mineral resources. Lab and field trips. *LS*.

GEO 125 Survey of Physical Geography. 3 cr. Characteristics and world distribution of physical factors which in combination form the natural environment; elements of weather and climate, climatic types, earth materials, landforms and earth resources. May not be taken for credit by students who have had GEO 123 or 124. *EL*.

GEO 130 Human Impact on the Environment. 3-4 cr. A natural science course describing the alteration of the physical environment with the resulting effects on air, water, soils, vegetation, animal life, and on humans. Included is the role of humankind in the development of new plants and animals. Field trips. 3 cr. *EL*., 4 cr. *LS*.

GEO 277 Geography of World Energy. 3 cr. An analysis of traditional and innovative energy resources. *SS*.

GEO 291* Geographic Field Study. 1-6 cr. For exceptional students in lieu of a regular course. Prereq: sophomore standing and cons. instr. *EL*.

GEO 297* Special Topics in Geography. 1-3 cr. The topics selected in this course will depend on student interest and special competencies of available staff. Prereq: cons. instr. *EL*.

GEO 299* Independent Study. 1-3 cr. Individual study under the supervision of an instructor. Prereq: cons. instr. *EL*.

GEO 300 Population: World Survey. 3-4 cr. Contrasts in numbers, densities and qualities of population with emphasis on regional implication. Prereq: one semester of college work. *SS*.

GEO 324 Middle East and North Africa. 3 cr. Description and analysis of the physical and cultural landscapes of the Middle East and North Africa. Prereq: one semester of college work. *SS*.

GEO 341 The United States and Canada. 3 cr. Description and analysis of the physical and cultural landscapes of the United States and Canada. Prereq: one semester of college work. *SS*.

GEO 342 Geography of Wisconsin. 3 cr. The physical features, resources, population, land utilization and economic development of the state. Field trips. Prereq: one semester of college work. *SS*.

GEO 347 Middle America. 3 cr. Description and analysis of the physical and cultural landscapes of Mexico, Central America and the West Indies. Prereq: one semester of college work. *SS*.

GEO 348 South America. 3 cr. Description and analysis of the physical and cultural landscapes of South America. Prereq: One semester of college work. *SS*.

GEO 349 Northwestern Europe. 3 cr. Description and analysis of the physical and cultural landscapes of Northwestern Europe. Includes the British Isles, Scandinavian countries, Low countries, France, Germany, Switzerland and Austria. Prereq: one semester of college work. *SS*.

GEO 350 Environmental Conservation. 3-4 cr. Problems arising from human use of earth resources. Principles of management that make for a continuation of natural resource adequacy. Emphasis on the United States. Field trip required. Prereq: One semester of college work. *SS*.

GEOLOGY AND METEOROLOGY

GEOLOGY

GLG 100 Survey of Geology. 3 cr. A brief study of minerals, rocks, fossils, geologic maps, and the processes which create and modify the surface and subsurface features of the earth. Field trips. Not open to those who have had GLG 101, 102. *EL*.

GLG 101 Physical Geology. 4-5 cr. An introduction to the study of the planet earth and its place in the universe, the processes in operation above, on and beneath its surface, and the relationship of people with the resulting geologic environment. Lab includes the study and classification of minerals and rocks as well as the interpretation of topographic and geologic maps. Field trips. Not open to those who have had GLG 100. *LS*.

GLG 102 Historical Geology. 4-5 cr. Physical history of the earth in relationship to the orderly development of life throughout geologic time. Lecture, lab, and field trips. Prereq: GLG 101 or cons. instr. *LS*.

GLG 104 Landscapes of North America. 3-4 cr. (Same as GEO 104.) A general survey of the characteristics and origins of major natural/physical regions of North America, with an emphasis on na-

tional parks and monuments and other public areas. *EL*, 3 cr.; *LS*, 4 cr.

GLG 130 Geologic Methods I. 3 cr. The techniques used in investigating, identifying and classifying earth materials. Lab work with demonstrations. Field trips. *LS*.

GLG 131 Geologic Methods II. 3 cr. Introduction to photogrammetry, use and interpretation of aerial photographs. Topographic and geologic maps, including application to historical geology. Lab and field trips. *LS*.

GLG 135 Environmental Geology. 3 cr. Applications of the science of geology to problems resulting from our intense use of the earth and its resources. Field trip required. *EL*.

GLG 169 Earth Science and Human Environment. 4 cr. The physical environment and our interaction with it. Emphasis on earth processes which affect humans, such as rivers, erosion, groundwater, landslides, and earthquakes. The impact of humans upon the environment. Air, water and soil pollution studied from a physical-chemical standpoint. The depletion of energy and mineral resources and the need for humans to design with nature. Lecture, lab and field trips. *LS*.

GLG 228 Survey of Oceanography. 3 cr. A survey of fundamental topics and contemporary problems in the science of the sea including scientific exploration, configuration of the ocean basins, properties of sea water, interface with the continents, currents and circulation, sediments on the sea floor, economic resources of food, minerals, energy and water, and oceanographic factors bearing on modern social, commercial, legal, international and exploitation problems of the world ocean. Prereq: high school physics or chemistry recommended and cons. instr. *EL*.

GLG 291* Geological Field Studies. 1-6 cr. (Same as INT 291*.) Formal classroom study of an area of geologic interest followed by field study of the area. May be taken for credit more than once. Prereq: cons. instr. *EL*.

GLG 297* Special Topics in Geology. 1-3 cr. The topic selected will depend on student interest and special competencies of available staff. Prereq: cons. instr. *EL*.

GLG 299* Independent Reading. 1-3 cr. For exceptional students in lieu of a regular course. May involve seminar presentation. May be taken more than once. Prereq: sophomore standing and cons. instr. *EL*.

GLG 301 Principles of Mineralogy. 4 cr. Minerals, their physical and chemical properties, crystallography, geologic significance and uses. Prereq: GLG 101 or 102 and high school or college chemistry course. *LS*.

GLG 302 Elementary Petrology. 4 cr. Study of igneous, sedimentary and metamorphic rocks, including classification, genesis, field identification and petrographic microscope study. Field trips. Prereq: GLG 301. *LS*.

GLG 306 Gems and Precious Stones. 1-2 cr. The mineralogy and properties of gem minerals as well as semi-precious and non-precious lapidary materials. Geologic origins, location and composition of specific minerals, why they are valuable, and the several methods of bringing rough materials to a finished state. *EL*.

GLG 314 Geologic Field Methods. 2-3 cr. Theory and techniques of geologic mapping and field work. Theory and use of air photographs, aerial mosaics, altimeter, hand level, Brunton, Jacob staff, section measuring, alidade, and transit. Lecture, lab and field trip. Prereq: GLG 102. *LS.*

GLG 316 Introduction to Geophysics. 2 cr. Study of selected topics relating to the internal constitution of the earth, global tectonics and geophysical methods. Prereq: GLG 100 or 101 and PHY 141. *EL.*

GLG 350 Minerals as a Public Problem. 2-3 cr. Distribution of mineral resources, present and future problems of mineral supply, conservation of minerals, and mineral resources in relation to national and international policy. Prereq: sophomore standing or cons. instr. *EL.*

GLG 409 Geomorphology. 3 cr. Principles and analysis of geomorphic processes and resulting landforms. Field trip. Prereq: GLG 100, 101-102, or GEO 123-124. *EL.*

GLG 414 Structural Geology. 3 cr. Principles of rock deformation, structures in layered rocks, structural and analysis, intrusive structures. Field trip. Prereq: GLG 102, 301 and cons. instr. *EL.*

GLG 443 Glacial and Pleistocene Geology. 3 cr. Principles, characteristics and work of glaciers; events of the Pleistocene Period. Field trips. Prereq: GLG 100, 101-102, or GEO 123-124. *EL.*

METEOROLOGY

MLG 100 Weather and Climate. 2-4 cr. Introductory course in meteorology. Nature and causes of wind, clouds, and precipitation; storm systems and fronts; thunderstorms, tornados, hurricanes; weather maps and forecasting. 2-3 cr. *EL.*, 4 cr. *LS.*

GERMAN

(See Foreign language)

HISTORY

HIS 101 United States History to the Civil War. 3-4 cr. American political, economic and social development from the age of exploration and founding of the colonies to the Civil War. *HU/SS.*

HIS 102 History of the United States Since the Civil War. 3-4 cr. American political, economic and social development from the Civil War to the present. *HU/SS.*

HIS 105 History of Western Civilization. 3-4 cr. Survey of Western Civilization from Ancient times through the Renaissance, emphasizing the distinctive features of Western culture, political development, and economic development, and the contributions made by non-Western people. *HU/SS.*

HIS 106 History of Western Civilization. 3-4 cr. Survey of Western Civilization from the Renaissance to Contemporary times, emphasizing the further development of Western culture, political institutions and economic institutions, including reference to

the interaction among the peoples of the modern world. *HU/SS.*

HIS 110 History of the American Frontier. 3 cr. American expansion focusing on the Turner hypothesis, land policy, territorial evolution, Indian policy, mining, lumbering, and fishing frontiers, the cattleman's West, transportation and the literary uses of the West. *HU/SS.*

HIS 111 Ancient History. 3-4 cr. Survey of the history of civilization from the beginnings in Mesopotamia and Egypt through Classical Greece with emphasis on institutional and social development. *HU.*

HIS 112 Ancient History. 3-4 cr. Survey of the history of civilization from Alexander the Great through the fall of the Roman Empire with emphasis on institutional and social development. *HU.*

HIS 114 Modern Revolutions. 3 cr. An introduction to the study of history through the examination of revolutionary eras. Topics will include the American, French and Russian revolutions. *HU/SS.*

HIS 115 Medieval Europe. 3-4 cr. General introduction to the history of Europe, from the later Roman Empire to the end of the Middle Ages. *HU/SS.*

HIS 116 History of Modern Germany, 1815 to the Present. 3 cr. Political, social, economic and cultural development from the end of the Napoleonic wars, through the founding of the German Empire, World War I, the Weimar Republic, the Nazi era, World War II and the postwar period. Emphasis is on evolution of conservatism, liberalism, socialism and nationalism, the rise of Hitler and National Socialism and the re-orientation of Germany after 1945. *HU/SS.*

HIS 117 History of the Soviet Union. 3 cr. A consideration of the major themes and personalities of Russian history since 1917. *HU/SS.*

HIS 118 The United States & Vietnam. 2-3 cr. An investigation of the war in Southeast Asia, 1945-1975, focusing on these topics: French colonialism; Vietnamese nationalism; American entry; the escalation of the American role; the debate on American policy; American withdrawal; conclusion of the fighting, and long-term effects. *HU/SS.*

HIS 119 The Making of Modern Europe. 3-4 cr. An introduction to the principal developments in the history of Europe from the Renaissance to the fall of Napoleon. *HU/SS.*

HIS 120 Europe and the Modern World, 1815 to the Present. 3-4 cr. A general survey of the political, economic, social and cultural history of modern Western civilization. *HU/SS.*

HIS 121 Modern Asia. 3 cr. A study of the political, social and economic developments of contemporary Asia, focusing on the rise of nationalism, and emphasizing the twentieth century development of China. *HU/SS.*

HIS 123 English History: England to 1688. 3-4 cr. General survey of the political, economic, social and cultural history of England from earliest historic times. *HU/SS.*

HIS 124 British History: 1688 to the Present. 3-4 cr. General survey of the political, economic, social and cultural history of Great Britain. *HU/SS.*

HIS 126 Twentieth Century Europe. 2-3 cr. Study of the major political, social, and cultural developments of Europe since 1900. *HU/SS.*

HIS 127 The World in the Twentieth Century. 3-4 cr. Survey of the major trends in Europe, Asia, Africa and the Americas since 1900; the two world wars, the social and political revolutions of our time; Fascism and Communism; the new states of Africa and Asia. *HU/SS.*

HIS 128 Cultural History of the American Nation. 3 cr. Cultural history as an approach to all aspects of American history. Considers development of national consciousness, relation of political style to cultural concerns, reflection of cultural values in American literature and impact of urban life on rural values. *HU/SS.*

HIS 150 History of the Family. 3 cr. The pre-industrial family; the effect of industrialism, child-rearing, courtship, adolescence, domestic life, old age, death and dying. Emphasis on American and/or European experience. *HU/SS.*

HIS 178 History of Minorities in America. 3 cr. This course will explore the role of ethnic, racial, religious and sexual groups in the history of the United States from the era of colonization to the present. Includes political, economic, social and cultural development. *HU/SS.*

HIS 183 Modern War and American Life. 3 cr. An investigation of the impact of the Civil War, World Wars I and II, and the Cold War on American society. The home front will be emphasized, with attention to wartime politics and the economy, civil liberties, and the social effect of war. *HU/SS.*

HIS 185 Recent American History, 1917-1945. 3 cr. Political, social, economic, and cultural changes in America during World War I, the Twenties, the Great Depression, and World War II. *HU/SS.*

HIS 186 Recent American History, 1945-Present. 3 cr. A continuation of HIS 185. Origins and history of the Cold War, McCarthyism, the Fifties, the Civil Rights movement, the war in Indochina, Watergate and its aftermath. *HU/SS.*

HIS 190 History of Wisconsin. 3 cr. History of Wisconsin from the beginning of the historical period to the present, with emphasis on the economic and social aspects of Wisconsin history since 1815. *HU/SS.*

HIS 195 The United States, 1877-1917: The Rise of Modern America. 3 cr. The transformation of the United States into an urban-industrial nation and a world power. The rise and impact of modern industrialism, organization of labor and farmers, disappearance of the frontier, overseas expansion, and the resulting political, economic, intellectual and social changes in America. *HU/SS.*

HIS 197 The United States, 1917-Present. 3 cr. Political, social, economic and cultural changes in America during World War I, the Twenties, the Age of the Great Depression, World War II, post-war America, and the ripening Civil Rights movement. *HU/SS.*

HIS 198 The Film as Social History. 2-3 cr. This course will focus on the feature and documentary films produced in a particular historical period. Through viewing selected films, the student will gain a deeper understanding of the motion picture's significance as an historical document, as well as its function as a propaganda device. An effort will be made to relate the thematic content of the selected films to the specific historical context in which they were produced and consumed. *HU/SS.*

HIS 203 Colonial Latin America. 3 cr. Development of Hispanic and Portuguese America through 1830; emphasizing social and institutional patterns. *HU/SS*.

HIS 211 History of the American Frontier. 3 cr. American expansion focusing on the Turner hypothesis, land policy, territorial evolution, Indian policy, mining, lumbering, and fishing frontiers, the cattleman's West, transportation, and the literary uses of the West. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 213 Recent Latin America. 3 cr. A continuation of History 203, emphasizing the evolution of independent states. *HU/SS*.

HIS 215 History of the Mediterranean, 500-1650. 3 cr. The society and economy of the coastal regions of southern Europe, the Middle East and North Africa from the end of antiquity to the beginning of the modern era. Prereq: HIS 115 or cons. instr. *HU/SS*.

HIS 216 History of Modern Germany, 1815-Present. 3 cr. Political, social, economic, and cultural development from the end of the Napoleonic wars, through the founding of the German Empire, World War I, the Weimar Republic, the Nazi era, World War II, and the postwar period. Emphasis is on evolution of conservatism, liberalism, socialism, and nationalism, the rise of Hitler and National Socialism, and the re-orientation of Germany after 1945. Similar to HIS 116, but course material is covered in greater depth. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 219 History of the Soviet Union. 3 cr. A consideration of the major themes and personalities of Russian history since 1917. Similar to HIS 117, but course material is covered in greater depth. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 221 Modern Asia. 3 cr. A study of the political, social and economic developments of Contemporary Asia, focusing on the rise of nationalism, and emphasizing the Twentieth Century development of China. Similar to HIS 121, but course material is covered in greater depth. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 222 Recent Chinese History. 3 cr. Western impact, social change, and revolutions in twentieth century China, pre-1949. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 223 History of the People's Republic of China, 1949-Present. 3 cr. Social, economic, and political transformation of China under communism with emphasis on the role of ideology in contemporary Chinese historical development, and an analysis of the nature of that historical development in comparative perspective of other post-revolutionary histories. Prereq: HIS 222 or cons. instr. *HU/SS*.

HIS 225 History of Modern Japan. 3 cr. Modern transformation of Japan, with special attention to nationalism, imperialism, and experiences of economic and political development. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 254 American Foreign Relations, 1763 to the Present. 3 cr. America's relations with the world, emphasizing the economic, political and ideological elements determining policy. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 255 Proseminar in History. 3-4 cr. This course will explore a historical topic through readings, discussion and written assignments. *HU/SS*.

HIS 256 Topics in History. 1-4 cr. This course will explore in depth a historical topic through lectures, discussions, readings and written assignments. *HU/SS*.

HIS 257 Origins and History of World War II. 3 cr. Background and history of World War I. Problems of peacemaking and international organization, rise of Fascism, National Socialism, and Japanese imperialism; breaking the peace; World War II. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 259 History of Europe Since 1945. 3 cr. Political, social, economic, and moral effects of the Nazi era, the Resistance and the Liberation; restoration and reconstruction; influence of the United States and the Soviet Union; capitalism, socialism, and communism; the European unity movement and the cold war; social and cultural changes; relations with Africa and Asia. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 260 History of Technology. 3 cr. General survey of the development of technology from early humans to the advent of the Industrial Revolution with analyses of the relationship between science and technology and the interaction of Eastern and Western cultures. *HU/SS*.

HIS 270 American Business History. 3 cr. The role of business in American society from colonial times to the present. Changes in managerial practices within the firm and in relation to the larger community. Origins of American capitalism, appearance of corporate organization, work patterns, changing business ethics and their legal environment, government regulation, international trade. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 278 History of Minorities in America. 3 cr. This course will explore the role of ethnic, racial, religious and sexual groups in the history of the United States from the era of colonization to the present. Includes political, economic, social and cultural development. Similar to HIS 178, but course material is covered in greater depth. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 280 History of the Great Lakes Region, 1600-1870. 3 cr. This course traces the development of the Great Lakes Region as a distinct physiographic, economic, political and cultural area in North America. The historical development of such an international region within the context of traditional nationalism and international rivalry, as well as its impact and influence within the respective nations. A frame of reference is provided for comparison with other regions within the North American milieu. *HU/SS*.

HIS 283 Modern War and American Life. 3 cr. An investigation of the impact of the Civil War, World Wars I and II, and the Cold War on American society. The home front will be emphasized, with attention to wartime politics and the wartime economy, civil liberties, and the social effect of war. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 285 Recent American History, 1917-1945. 3 cr. Political, social, economic, and cultural changes in America during World War I, the Twenties, the Great Depression, and World War II. Similar to HIS 186, but course material is covered in greater

depth. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 286 Recent American History, 1945-Present. 3 cr. A continuation of History 285 (1917-45). Origins and history of the Cold War, McCarthyism, the Fifties, the Civil Rights movement, the war in Indochina, Watergate and its aftermath. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 288 Representative Americans. 3 cr. A biographical approach; evaluation of contributions of leading Americans to the nation's development. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 289 Colonial and Revolutionary America, 1607-1789. 3 cr. The establishment and political, social and economic development of the English colonies in North America; origins and consequences of the American Revolution; and the establishment of the new nation. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 290 History of Wisconsin. 3 cr. History of Wisconsin from the beginning of the historical period to the present, with emphasis on the economic and social aspects of Wisconsin history since 1815. Similar to HIS 190, but course material is covered in greater depth. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 291 The Age of Jefferson and Jackson, 1789-1848. 3 cr. Establishment of the national government; growth of democracy and the nature of party development; westward expansion; economic change, slavery and social reform. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 293 Civil War and Reconstruction. 3 cr. Analysis of slavery in the Old South, the anti-slavery movement, the conflict between the North and South (sectionalism), the significance of the Civil War, presidential and congressional reconstruction, the position of the freedmen in the South and post-war America. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 295 The United States, 1877-1917: The Rise of Modern America. 3 cr. The transformation of the United States into an urban-industrial nation and a world power. The rise and impact of modern industrialism, organization of labor and farmers, disappearance of the frontier, overseas expansion, and the resulting political, economic, intellectual and social changes in America. Similar to HIS 195, but course material is covered in greater depth. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 296 People and Machines in American Technology. 3 cr. Critical biographical study of notable inventors, industrialists, engineers, such as Fulton, Ford, and Edison, with emphasis on value systems and corresponding relationship to technology. *HU/SS*.

HIS 297 The United States, 1917 to the Present. 3 cr. Political, social, economic and cultural changes in America during World War I, the Twenties, the Age of the Great Depression, World War II, post-war America and the ripening Civil Rights movement. Prereq: sophomore standing or cons. instr. *HU/SS*.

HIS 299 Independent Studies. 1-3 cr. Extensive reading for the purpose of surveying the literature on a particular historical subject, possibly including a research project, under the personal supervision of the instructor. The subject matter is open, to be

determined by the student and instructor. Students will be encouraged to use off-campus resources when available. Prereq: cons. instr. *HU/SS*.

Not all courses listed here are offered at all centers. See your campus timetable or the course offerings.

INTERDISCIPLINARY STUDIES

INT 101 An Intro to Women's Studies. 3 cr. (Same as WOM 101.) An introduction to the major problems addressed by Women's Studies with an emphasis on the theoretical and methodological issues involved in gaining accurate knowledge about women. *EL*.

INT 102 Introduction to Environmental Studies. 3 cr. Principles that govern the structure, function, and interrelationships of the earth's ecosystems are examined. The impacts of man's activities are viewed as they relate to these basic processes. Solutions to environmental problems are examined relative to both the limitations of the environment and the constraints by today's technological society. *EL*.

INT 105 Greek and Latin Origins of Medical and Scientific Terminology. 2-3 cr. The course is designed to acquaint students pursuing science and other majors with the origins of technical terms they are likely to encounter. *EL*.

INT 195 Managing the Future. 2-3 cr. A systematic, interdisciplinary study of the sets of possible, probable, and desirable future environments with which mankind will be confronted (immediate and long-range), with special emphasis on the critical next two decades. The effects on society of rapid technological advances are considered. *EL*.

INT 197 Basic Photography. 3 cr. An introduction to photography: development of photography, fundamental photographic theory, basic camera handling, developing, printing and enlarging; an introduction of photographic aesthetics. Students must provide a camera. *EL*.

INT 250 Energy and the Quality of Life. 3 cr. Discussion of the interplay of energy, technology, and culture. The impact on value systems of energy used in technology. The need to project energy use in terms of emerging value systems. *EL*.

INT 291* Interdisciplinary Field Trip. 1-3 cr. (Same as GLG 291*) Formal classroom study of an area of geographic, biological and anthropological interest followed by field study of the area. May be taken more than once. *EL*.

INT 294 Career Exploration. 1-3 cr. A directed study combined with career experience intended to occur after completion of one or two semesters. Designed to provide an opportunity for students to explore and orient themselves to a career field of their choice. Intended to transfer to a degree-granting institution as elective credit. Prereq: completion of 12 credits and cons. instr. *EL*.

INT 295 Career Development. 1-3 cr. A directed study combined with career experience intended to occur after completion of 3 or 4 semesters. Designed to provide an opportunity for students to either extend their career development in their chosen discipline or occupation, or to investigate a second

career field whether related or unrelated to the experience in INT 294. Intended to transfer to a degree granting institution as an elective credit. Prereq: INT 294 and cons. instr. *EL*.

INT 296* Careership. 2-6 cr. A directed study combined with career experience intended to occur in the second semester of the sophomore year (or in the first semester of the junior year). A learning contract is designed by the student in concert with a University Center professor and approved for credit as part of the student's major or minor by a member of the department at the degree granting institution to which the student is transferring. Prereq: INT 295 and cons. instr. *EL*.

JOURNALISM

(See Communication Arts)

LEARNING RESOURCES

LEA 100 Grammar Skills. 1-2 non-degree cr. Designed to improve student understanding and use of written English, this course covers the principles and patterns of grammar and writing.

LEA 101 Speed and Efficiency in Reading. 1-2 non-degree cr. The aim of this course is to help the student develop the vocabulary and comprehension skills needed for studying college materials. The student learns to analyze challenging materials for immediate understanding and interpret it for long term memory.

LEA 102 Learning Skills. 1-2 non-degree cr. This course is designed for the student who needs to develop generalized learning skills. Areas of study may include: managing time, taking notes, reading and studying textbooks, reading comprehension, developing vocabulary, organizing the research paper and making oral presentations.

LEA 103 Study Skills. 1-2 non-degree cr. This course is designed to aid students in learning effective study systems. The student also learns to use appropriate reading rates.

LEA 104 Career Planning & Preparation. 1-2 non-degree cr. This course will enable students to develop career goals and lay out a path for achieving these goals. Students will examine their personal interests, aptitudes, values, decision making skills, academic plans and career awareness. This personal, educational and occupational information will then be organized and translated into an individualized course of action. Integration of career goals with current and future college coursework will be stressed.

LEA 105 Basic Math. 1-2 non-degree cr. Designed for students with minimum algebra background or who have been away from mathematics for several years. Subject areas to be covered include: arithmetic of whole numbers, fraction and decimals, and basic algebraic concepts.

LEA 106 English as a Second Language. 1-2 non-degree cr. A program dealing with English as a second language for students whose native language is not English. The program is designed to assist foreign students in improving their skills in spoken and

written English for successful academic work at the university level. Prereq: for students who (1) are not native speakers of English and who (2) have studied English as a second language prior to being enrolled in the UW Centers.

LECTURE (UNIVERSITY) FORUM

LEC 101 University Forum. 1 cr. A lecture-discussion course designed to introduce students to current problems and significant issues. Open to freshmen and sophomores. May be taken twice for a maximum of two credits. *EL*.

LEC 102 Library Methods. 1-2 cr. A course designed to assist students in the identification and use of library resources, to illustrate the organization of libraries within the academic setting, to acquaint the student in the use of books and libraries as sources of information in contemporary society. *EL*.

MATHEMATICS

In addition to the stated prerequisites, some campuses provide placement exams and recommend a satisfactory score for placement in certain courses.

MAT 081 Topics in Geometry. 1-3 non-degree cr. Designed for students who have not had high school geometry. Includes methods of proof, properties of simple plane figures, congruence and similarity.

MAT 091 Elementary Algebra. 1-3 non-degree cr. Designed for those who have not had high school algebra. Topics include introduction to sets, binary operations, variable expressions, fractions, factoring and solving simple equations.

MAT 102 Survey of Mathematics. 2-4 cr. This course is designed as a general education course in mathematics. The course has no fixed collection of topics. The topics are selected from several areas of mathematics by the instructor. They will be presented on an intuitive level with an emphasis on an appreciation of mathematics and the relative importance mathematics has played in society and in other disciplines. It is not intended as preparation for other mathematics courses. *MA*, *AA* degree; *EL*, *AS* degree.)

MAT 105 Introduction to College Algebra. 3-4 cr. Sets and logic; basic properties of the real number system; the fundamental operations of algebra; exponents and radicals; linear and quadratic functions and inequalities; graphs; direct and inverse variation; complex numbers and optional topics. Prereq: one year of high school algebra and one year of high school geometry, or one year of high school algebra and concurrent registration in a geometry course or equivalent. Some campuses offer MAT 105 in two one-semester modules for students whose placement test scores or prerequisite deficiencies indicate potential difficulty in one-semester four-credit courses. *MA*.

MAT 110 College Algebra. 3 cr. Definition of function; linear and non-linear functions and graphs in-

cluding logarithmic and exponential functions; systems of linear equations; theory of polynomial equations; and optional topics such as mathematical induction, matrix solution of linear systems, and Cramer's rule. Prereq: MAT 105, three years of high school math or equivalent. *MA*.

MAT 113 Trigonometry. 2 cr. Trigonometric functions, their basic properties and graphs; identities, inverse trigonometric functions, solving trigonometric equations; solutions of triangles. Prereq: MAT 110, concurrent registration in MAT 110, three years of high school math or equivalent. *MA*.

MAT 117 Elementary Statistics. 3 cr. The primary aim of the course is a basic understanding and use of statistical concepts and methods to facilitate study and research in other disciplines. Includes measures of central tendency, measures of variability, grouped data, the normal distribution, central limit theorem, hypothesis testing, estimation, T-distribution, chi square test. Prereq: MAT 105 or equivalent. *MA*.

MAT 118 Introductory Mathematics of Finance. 2 cr. Mathematical characteristics of currently used financial growth laws; annuities; amortization; sinking funds and bonds. Prereq: MAT 110 or equivalent. *MA*.

MAT 119 Introductory Finite Probability. 2 cr. The algebra of sets; elementary logic and probability; Bayes theorem; independent events. Prereq: MAT 110 or equivalent. *MA*.

MAT 124 Pre-Calculus Mathematics. 4-5 cr. Functions and graphs, including linear, polynomial, logarithmic and exponential functions; complex numbers and theory of equations; binomial theorem; mathematical induction; trigonometric functions, their basic properties and graphs; identities; inverse trigonometric functions; solving trigonometric equations; deMoivre's theorem. Prereq: MAT 105 or equivalent. Students may not take more than five credits of any combination of MAT 110, 113 and 124. *MA*.

MAT 130 Mathematics for Elementary Teachers. 4 cr. A mathematics content course for prospective elementary teachers. Emphasis is on development of properties of arithmetic. Topics may also include elementary concepts of algebra, probability and statistics. Four hours lecture or three hours lecture and two hours laboratory per week. Prereq: high school algebra. *MA*.

MAT 131 Algebra for Elementary Teachers. 4 cr. Topics selected from linear and abstract algebra with emphasis on topics directly related to the elementary school mathematics curriculum. Principles, aims, methods, and techniques of teaching elementary school mathematics with emphasis upon the teaching of algebraic concepts. Four hours lecture or three hours lecture and two hours laboratory per week. Prereq: MAT 130 or equivalent. *MA*.

MAT 132 Geometry for Elementary Teachers. 4 cr. A continuation of MAT 130 with emphasis on geometric concepts. Topics may also include concepts of algebra, probability and statistics. Four hours lecture or three hours lecture and two hours laboratory per week. Prereq: high school algebra and geometry. *MA*.

MAT 211 Calculus and Related Topics. 4-5 cr. Primarily for students in business, the social sciences, and biological sciences who wish to acquire some knowledge of the techniques and applications of

calculus. Topics include concepts and techniques of differential and integral calculus with applications. Students who are preparing to major in mathematics, physics, etc. should enroll in the MAT 221, 222 and 223 sequence. Prereq: MAT 110, MAT 124 or equivalent. *MA*.

MAT 212 Calculus and Related Topics. 3-4 cr. This course is of interest primarily to business students. Topics include matrices, linear programming and applications, probability, multivariate calculus and the mathematics of finance. Prereq: MAT 211 or cons. instr. *MA*.

MAT 220 Computer Illustrations of Calculus. 1 cr. This course emphasizes the analysis of selected calculus topics using a computer. It reviews programming in a high level language, then examines calculus related programs such as approximation of function limits, graphing f by approximating $f'(x)$ at several points, location of zeros of functions, location of extreme values of functions, and integral approximations. Prereq: MAT 211, 221 or equivalent and a computer course or cons. instr. *MA*.

MAT 221 Calculus and Analytic Geometry I. 5 cr. Analytic geometry, functions, limits and continuity, the derivative, integrals, techniques of differentiation, applications of differentiation, integration. Prereq: MAT 124 or 110 and 113 or equivalent. *MA*.

MAT 222 Calculus and Analytic Geometry II. 5 cr. Continuation of MAT 221. Applications of integration, logarithmic and exponential functions, trigonometric functions, techniques of integration, polar coordinates and the conic sections, infinite series, vectors. Prereq: MAT 221. *MA*.

MAT 223 Calculus and Analytic Geometry III. 4-5 cr. Continuation of MAT 222. Infinite series; analytic geometry of three dimensions; functions of several variables with emphasis on partial differentiation and multiple integration; introduction to differential equations. Prereq: MAT 222 or equivalent. Note: the order of topics covered in MAT 221, 222, and 223 may depend on the text used and the instructor. *MA*.

MAT 230 Discrete Mathematics. 3 cr. An introduction to discrete mathematics with emphasis on topics applicable to computer science. Topics include: symbolic logic; sets and relations; induction and recursion; counting techniques; algorithm analysis; graphs and digraphs, and Boolean algebra. Prereq: MAT 221 and CPS 211 or 213. *EL*.

MAT 232 Introduction to Mathematical Logic. 2 cr. Symbolic logic applied to mathematical proofs, particularly those of calculus. This course is designed to enable the student to handle the many proofs in calculus and later math courses. Prereq: MAT 221, or concurrent registration or equivalent or cons. instr. *MA*.

MAT 240 Statistical Analysis. 3 cr. Elements of probability theory; collection and presentation of sample data; basic problems of statistical inference; applications, including quality control; regression; hypothesis testing. Prereq: MAT 211, 221 or equivalent. *MA*.

MAT 262 Linear Algebra. 3 cr. Matrices and linear systems; vector spaces and linear transformations. Prereq: MAT 221 or equivalent. *MA*.

MAT 271 Ordinary Differential Equations. 3 cr. Ordinary differential equations of the first and second

order with emphasis on geometrical interpretations and applications to geometry and physics, linear differential equations with constant coefficients. Prereq: MAT 223 or concurrent registration. *MA*.

MAT 272 Intro to Fourier Analysis. 1 cr. This course will acquaint engineering students with Fourier methods in solving differential equations. Emphasis is on input-output techniques and may involve further applications of Laplace transforms and other topics. Prereq: MAT 223 and either 271 or 320 or MAT 223 and concurrent registration in 271 or 320. *EL*.

MAT 299 Independent Reading in Mathematics. 1-3 cr. Prereq: Sophomore standing and cons. instr. *MA*.

MAT 320 Linear Mathematics. 4 cr. Introduction to linear algebra, vector spaces, matrices, linear transformations and eigenvalues. Ordinary differential equations and linear systems of differential equations. Laplace transforms. Prereq: MAT 223 or equivalent. *MA*.

METEOROLOGY

See *Geology & Meteorology*

MILITARY SCIENCE

MLS 101 The Defense Structure and Introduction to Leadership. 1 cr. An overview of the U.S. Defense Structure, past, present and future. Introduction to the organization of the U.S. Army and fundamentals of military leadership. *EL*.

MLS 102 U.S. Defense Establishment II. 1 cr. Military organizations, missions and capabilities. Individual weapons and marksmanship. Leadership lab. *EL*.

MLS 105 Introduction to Reserve Officers' Training Corps (ROTC) I. 1 cr. Current issues, options, scholarship opportunities, and offerings within the Army Reserve Officers' Training Corps Program. The course encompasses a series of introductions to facets, equipment, and fundamentals that will be expanded upon in later courses. Physical activity includes an introduction to rappelling. Provides insight into everyday workings of the U.S. Army. *EL*.

MLS 106 Introduction to Reserve Officers' Training Corps (ROTC) II. 1 cr. A continuation of fundamentals begun in MLS 101. Visits to and activity on an indoor rifle range as well as basic fundamentals in compass/map reading techniques are included. The course broadens to include the career and financial options open to members of the active army, National Guard, and U.S. Army Reserve. A two-day field training exercise held at Fort McCoy, WI, (held on an optional basis) gives further introduction to military procedures. *EL*.

MLS 201 American Military History. 2 cr. A survey of American military history with emphasis on factors which have contributed to the development of military art and theory as practiced in the U.S. Army. Leadership lab. *EL*.

MLS 202 Introduction to Tactics and Operations. 1-2 cr. The objectives of this course are: to develop an appreciation of the fundamentals and techniques of small unit tactics; to orient the student on the use of maps and map substitutes required for military operations; to introduce the student to the fundamental considerations for military operations. Leadership lab, to include weekend field trip. *EL*.

MLS 205 Land Navigation. 2 cr. Application of the principles of land navigation and the use of maps and lensatic compasses to traverse unfamiliar terrain. Facets of the course include an introduction to aerial photography reading and the sport of orienteering. A good portion of the class period is conducted outdoors on and around the campus. *EL*.

MLS 206 Introduction to Military Ethics and Professionalism. 2 cr. Current issues and events facing the U.S. establishment. Organizational structure, budgeting procedures, and roles of the Armed Forces components are examined. The final 6 weeks entail an in-depth analysis of the ethics and professionalism standards demanded of an army officer. The course provides an overview of the military's role within society and the officer's role within the military. Prereq: none *EL*.

MLS 213 Red Cross First Aid and Emergency Medical Care. 2-3 cr. (Same as PED 213.) Principles and procedures in emergency and home medical care designed to prepare the layperson for emergencies likely to be encountered in daily living. Upon successful completion, Standard A.R.C. First Aid certification for 2 cr. or Advanced First Aid certification for 3 cr. is awarded. *EL*.

MLS 251 Introduction to Military Leadership. 2 cr. Principles of military leadership, military organization and structure, map reading and land navigation, fundamental role of the military in government. Field trip required. *EL*.

MLS 301 Small Unit Tactics & Communications. 3 cr. Lecture, seminars, and practical exercises initiating the student to principles and fundamentals of platoon size operations in offense and defensive operations. Exercises are supplemented by an introduction to and practical application of unit equipment to include small arms and radios. This course is designed to familiarize students with Advanced Camp tasks in order to instill greater confidence during the summer practicum. Prereq: MLS 101, 102, 201, 202 or consent of department. *EL*.

MLS 302 Method of Instruction/Leadership Principles. 3 cr. Leadership practicum in resolving small unit leadership problems caused by communications, misunderstandings, motivational problems, and job performance degradation. The final one-third of the course encompasses instruction and practical application in the fundamentals of military instruction. Instructional topics are continually geared to preparing the student for Advanced Camp participation and completion. *EL*.

MLS 401 Staff Procedures and Military Law. 3 cr. Procedures and responsibilities of military staff officers, staff planning and decision-making; responsibilities and functions of a commander. The final 6 weeks are devoted to the explanation and analysis of the military legal system as established by the Uniform Code of Military Justice. Prereq: MLS 302 or consent of department. *EL*.

MLS 402 Administrative & Logistics Management. 3 cr. Discussion and practical exercise dealing with the role of the junior officer in meeting his/her responsibilities for unit administration and logistics management, familiarization with customs and traditions of the military and the many facets of becoming a commissioned officer. *EL*.

MUSIC

MUS 070 Orchestra. 0-2 cr. Open to all students by tryout. *EL*.

MUS 071 Band. 0-2 cr. Open to all students with previous experience. *EL*.

MUS 072 Chorus. 0-2 cr. Open to all students. *EL*.

MUS 073 Swing Choir. 0-2 cr. Cons. instr. *EL*.

MUS 074 Jazz Ensemble. 0-2 cr. Cons. instr. *EL*.

MUS 075 Vocal Ensemble. 0-2 cr. Cons. instr. *EL*.

MUS 076 Woodwind Ensemble. 0-2 cr. Cons. instr. *EL*.

MUS 077 Brass Ensemble. 0-2 cr. Cons. instr. *EL*.

MUS 078 Percussion Ensemble. 0-2 cr. Cons. instr. *EL*.

MUS 079 String Ensemble. 0-2 cr. Cons. instr. *EL*.

MUS 107 Vocal Techniques. 1-2 cr. Theory and practice in fundamentals of singing. *EL*.

MUS 115 Woodwind Techniques. 1-2 cr. Flute, oboe and bassoon. *EL*.

MUS 121 Woodwind Techniques. 1-2 cr. Clarinet and saxophone. *EL*.

MUS 130 Brass Techniques. 1-2 cr. Trumpet and horn. *EL*.

MUS 131 Theory Fundamentals. 2 cr. Open to non-music majors and music majors or minors needing remedial work before enrolling in MUS 171. Study of basic notation, rhythm, intervals, scales and chords; sight-singing and ear-training. *EL*.

MUS 132 Theory Fundamentals. 2 cr. Continuation of MUS 131, with further study of basic fundamentals plus introduction to chord structure and part-writing; sight-singing and ear-training. Prereq: MUS 131 or cons. instr. *EL*.

MUS 136 Brass Techniques. 1-2 cr. Trombone, baritone and tuba. *EL*.

MUS 145 Percussion Techniques. 1-2 cr. *EL*.

MUS 147 String Techniques. 1-2 cr. Guitar. *EL*.

MUS 148 String Techniques. 1-2 cr. Violin and viola. *EL*.

MUS 154 String Techniques. 1-2 cr. Cello and string bass. *EL*.

MUS 160 Percussion Techniques. 1-2 cr. *EL*.

MUS 170 Fundamentals of Music. 2-3 cr. This course is designed to acquaint the student with the fundamentals of music through experiences with the keyboard, rhythm instruments, singing, listening, note reading, and so forth. Required for elementary education majors and open to the general student. Not accepted as part of a music major or minor. *EL*.

MUS 171 Music Theory I. 4-5 cr. Basic notation; intervals, scales and modes; rhythm; contrapuntal harmony, written and keyboard; sight singing and ear training; selected music for harmonic and form analysis. Open to music majors and minors or by cons. instr. *HU*.

MUS 172 Music Theory I. 4-5 cr. Prereq: Music 171. *HU*.

MUS 173 Music Literature and Appreciation. 2-3 cr. A guide to musical enjoyment and understanding; includes listening experiences in various styles and forms of music. *HU*.

MUS 174 Music Literature and Appreciation. 2-3 cr. A continuation of Music 173. *HU*.

MUS 271 Music Theory II. 4-5 cr. Adds to the student's vocabulary non-dominant harmony, altered chords, the Neopolitan sixth, and augmented sixth. Modulation to remote keys, melodic and harmonic dictation from the piano, and sight-singing and keyboard experience with more difficult materials. Prereq: MUS 172. *HU*.

MUS 272 Music Theory II. 4-5 cr. Prereq: Music 271. *HU*.

MUS 273 Jazz History and Appreciation. 2-3 cr. An introduction to the styles and form of jazz through a study of its history and literature. Includes recorded listening experiences. *HU*.

MUS 275 History of Western Music. 3 cr. A survey of the historical development of musical style and theoretical concepts from ancient Greece to 1750. Prereq: MUS 172 or cons. instr. *HU*.

MUS 276 History of Western Music. 3 cr. A continuation of MUS 275 from 1750 to the present. Prereq: MUS 172 or cons. instr. *HU*.

MUS 280 Conducting. 2 cr. Conducting techniques; emphasis on practical application to vocal and instrumental groups. *EL*.

MUS 281 Conducting. 2 cr. A continuation of MUS 280. *EL*.

MUS 295* Selected Studies. 0-3 cr. Single course offerings not listed in the catalog, reflecting individual campus interests. Prereq: cons. instr. *HU*.

MUS 299* Independent Study. 0-3 cr. Readings, papers, reports, or projects to be determined by the instructor. Prereq: cons. instr. *EL*.

MUA 299* Independent Study. 0-3 cr. Recitals, musicals, opera, theater, opera workshops. *EL*.

MUSIC APPLIED CHART

All courses are considered electives.

(All applied music courses carry the prefix MUA)

	BEGINNING		ELEMENTARY		CREDITS	INTERMEDIATE		CREDITS
PIANO *	001	002	003	004	1-2	005	006	1-2
ORGAN	069	070			1	093	094	1-2
VOICE	007	008			1	009	010	1-2
GUITAR	011	012			1	013	014	1-2
FLUTE	015				1	016	017	1-2
OBOE	018				1	019	020	1-2
CLARINET	021				1	022	023	1-2
SAXOPHONE	024				1	025	026	1-2
BASSOON	027				1	028	029	1-2
HORN	030				1	031	032	1-2
TRUMPET OR								
CORNET	033				1	034	035	1-2
TROMBONE	036				1	037	038	1-2
BARITONE	039				1	040	041	1-2
TUBA	042				1	043	044	1-2
PERCUSSION	045				1	046	047	1-2
VIOLIN	048				1	049	050	1-2
VIOLA	051				1	052	053	1-2
CELLO	054				1	055	056	1-2
STRING BASS	057				1	058	059	1-2
HARP	060				1	061	062	1-2
RECORDER	063				1	064	065	1-2
HARPSICHORD	066				1	067	068	1-2

	1ST YEAR		CREDITS	2ND YEAR		CREDITS	3RD YEAR		CREDITS
PIANO *	105	106	2	205	206	2	305	306	2
ORGAN	103	104	2	203	204	2	2		
VOICE	109	110	2	209	210	2			
GUITAR	113	114	2	213	214	2			
FLUTE	116	117	2	216	217	2			
OBOE	119	120	2	219	220	2			
CLARINET	122	123	2	222	223	2			
SAXOPHONE	125	126	2	225	226	2			
BASSOON	128	129	2	228	229	2			
HORN	131	132	2	231	232	2			
TRUMPET OR									
CORNET	134	135	2	234	235	2			
TROMBONE	137	138	2	237	238	2			
BARITONE	140	141	2	240	241	2			
TUBA	143	144	2	243	244	2			
PERCUSSION	146	147	2	246	247	2			
VIOLIN	149	150	2	249	250	2			
VIOLA	152	153	2	252	253	2			
CELLO	155	156	2	255	256	2			
STRING BASS	158	159	2	258	259	2			
HARP	161	162	2	261	262	2			
RECORDER	163	164	2	263	264	2			
HARPSICHORD	169	170	2	271	272	2			

*All Beginning and Elementary Applied Piano may be taught as a class or as private lessons.

NATURAL RESOURCES

(See Biological Sciences)

PHILOSOPHY

PHI 100 Critical Thinking. 1-3 non-degree cr. This course is designed to assist students in developing the critical reading skills necessary for evaluating arguments. It is recommended for students who are insufficiently prepared for college level academic work.

PHI 101 Introduction to Philosophy. 3-4 cr. An introduction to philosophy as the activity of clarifying ideas, developing positions, and evaluating arguments on such problems as: what is, what ought to be, freedom, God, and knowledge. Some reference to positions of leading figures and schools of thought in the history of philosophy is usually involved. *HU/SS.*

PHI 102 Introduction to Social and Political Philosophy. 3 cr. Studies of differing philosophical views about humankind and its political and social life. Prereq: three credits in philosophy recommended but not required. *HU/SS.*

PHI 103 Belief, Knowledge and Truth. 3 cr. Study of the grounds of rational belief and knowledge and the methods used for obtaining them, with particular emphasis on problems of evidence and truth. Prereq: three credits in philosophy recommended but not required. *HU/SS.*

PHI 106 Introduction to Philosophy of Religion. 3 cr. An introduction to the problems inherent in defining the nature of religious experience and analyzing the concepts needed to explicate and communicate that experience, together with an analysis of various religious assumptions. Prereq: three credits in philosophy recommended but not required. *HU/SS.*

PHI 201 Introduction to Asian Philosophy. 3 cr. An introduction to Asian philosophy through a study of opposing views about knowledge, nature, society, and the individual. Areas of emphasis may include Chinese, Indian, Japanese and Muslim thought. Prereq: three credits in philosophy recommended but not required. *HU/SS.*

PHI 202 Feminist Philosophy. 3 cr. (Same as WOM 202.) An introduction to feminist philosophies through a study and critique of traditional and feminist views about women, their lives, society and knowledge with particular attention to theories of women's oppression. *HU/SS.*

PHI 210 The Uses of Argument. 3-4 cr. Argument in familiar contexts; emphasis on improving the student's skills in making and evaluating arguments; not open to students with credit in PHI 211. *HU.*

PHI 211 Elementary Logic. 3-4 cr. Principles, standards and methods of distinguishing good reasoning from bad, as applied to deductive and inductive inferences. Nature and detection of fallacies, and linguistic pitfalls affecting reasoning. *HU/SS.*

PHI 220 Introduction to the Philosophy of Science. 3 cr. An introduction to the presuppositions underlying the natural and social sciences; their nature and

function, the logic of scientific method, and analysis of basic concepts such as: cause, probability, determinism, and teleology. Prereq: three credits in philosophy recommended but not required. *HU/SS.*

PHI 226 Philosophical Ideas in Literature. 3 cr. A study of philosophical and moral ideas as embodied in selected works of literary art: aesthetic analysis of their structure and content. Prereq: three credits in philosophy recommended but not required. *HU/LI.*

PHI 240 Introduction to Existentialism. 3 cr. An introduction to existential philosophy through critical examination of philosophical problems found in the writings of selected existential philosophers from Kierkegaard to the present. Prereq: three credits in philosophy recommended but not required. *HU/SS.*

PHI 241 Introductory Ethics. 3 cr. Nature of moral problems and of ethical theory, varieties of moral skepticism, practical ethics and the evaluation of social institutions. Prereq: three credits in philosophy recommended but not required. *HU/SS.*

PHI 242 Applied Ethics. 3 cr. Application of major ethical views to a specific professional field or social concern. In a given semester the course will focus on moral questions within a single field such as business, environment, computers, education, journalism, nuclear war, etc. The course may be taken more than once under different titles. Prereq: PHI 101 recommended. *HU/SS.*

PHI 248 Biomedical Ethics. 3 cr. Study of ethical issues pertaining to medicine and related biological sciences. Issues covered usually include abortion, euthanasia, truth telling, confidentiality, experimentation on human subjects, behavior modification, genetic engineering, criteria of death, organ transplants, professional relationships and professional duties. Prereq: three credits in philosophy recommended but not required. *HU/SS.*

PHI 253 Philosophy of the Arts. 3 cr. Examination of production, appreciation and criticism of works of art; sources and uses of standards. Prereq: three credits in philosophy recommended but not required. *HU.*

PHI 258 Human Nature, Religion and Society. 3 cr. Study and critique of the views of theistic and secular writers concerning religion and its relationship to individual and social problems. Prereq: three credits in philosophy recommended but not required. *HU/SS.*

PHI 291* Selected Topics in Philosophy. 3 cr. Each course offering must be approved by both the local campus and the chairman of the department. Prereq: varies with each offering. *EL.*

PHI 299* Independent Reading in Philosophy. 1-3 cr. Program must be approved by chairman of the department. Prereq: cons. instr. *EL.*

PHI 348 Ethical Issues in Health Care Delivery Systems. 3 cr. Study of ethical issues pertaining to health care and nursing. Issues covered usually include medical moral codes, professional relationships and duties (such as nurse-client, nurse-physician, nurse-institution), accountability, autonomy, conscientious refusal, institutional and public policies, paternalism, truth telling, privacy and confidentiality. Prereq: Designed for students enrolled in

health science programs or working in a health service field. *HU/SS.*

Not all courses listed here are offered at all centers. See your campus timetable or the course offerings.

PHYSICAL EDUCATION

Basic physical education open to all students; the courses develop skills, teach rules, and prepare students for recreational enjoyment.

OBJECT PROJECTION ACTIVITIES

One credit courses. All courses are elective.

- PED 001 Archery**
002 Badminton
003 Basic Physical Education
004 Basic Physical Education
005 Basketball
006 Beginning Bowling
007 Intermediate Bowling
008 Canoeing
009 Beginning Golf
010 Intermediate Golf
011 Field Hockey
012 Handball, Paddleball and Racquetball
013 Marksmanship
014 Softball
015 Squash
016 Beginning Tennis
017 Intermediate Tennis
018 Volleyball
019 Weight Training
020 Angling
021 Flag Football

BODY HANDLING ACTIVITIES

One credit courses. All courses are elective.

- PED 024 Aerobic Dance**
025 Ballet
026 Bicycling
027 Introduction to Conditioning
028 Advanced Conditioning
029 Modern Dance
030 Folk & Square Dance
031 Social Dance
032 Beginning Fencing
033 Intermediate Fencing
034 Apparatus Gymnastics
035 Beginning Horsemanship
036 Intermediate Horsemanship
037 Judo
038 Roller Skating
039 Ice Hockey
040 Ice Skating
041 Beginning Skiing
042 Intermediate Skiing
043 Cross Country Skiing and Orienteering
044 Tumbling and Trampoline
045 Wrestling
046 Yoga-Relaxation Techniques
047 Backpacking
048 Orienteering

AQUATIC ACTIVITIES

One credit courses. All courses are elective.

- PED 055** Beginning Swimming
056 Intermediate Swimming
057 Synchronized Swimming
058 Advanced Life Saving
060 Springboard Diving
061 Scuba Diving
062 Sailing

Courses with emphasis on learning the skills, rules and teaching techniques. Primarily for students planning to major in physical education or related fields, but open to other students.

*One credit courses. All courses are elective.

- PED 101** Archery
102 Basketball Fundamentals
103 Baseball
104 Badminton
105 Canoeing
106 Curling
107 Folk & Square Dance
108 Social Dance
109 Golf
110 Handball, Paddleball and Racquetball
111 Skiing
112 Skating
113 Beginning Swimming
114 Advanced Swimming
115 Volleyball
116 Tennis
117 Soccer
118 Weight Training
119 Sailing
120 Wrestling
121 First Aid (Standard Instructor,
121 American Red Cross)
122 Water Safety Instructor
123 CPR Red Cross course which includes

First Aid techniques for
mouth to mouth breathing, cardiopulmonary resuscitation and care for an obstructed airway. Course objectives include early warning signs, proper response and prevention. Certification granted upon successful completion of the course.

PROFESSIONAL PHYSICAL EDUCATION COURSES FOR MAJORS & MINORS

PED 201 Gymnastic Apparatus. 2 cr. Skill development, safety, spotting techniques and teaching progressions on gymnastic apparatus for students majoring in physical education and related fields. *EL*.

PED 202 Body Mechanics. 2 cr. Components of exercise structure; use of various pieces of equipment and apparatus in exercise; mechanics of movement and its application. *EL*.

PED 203 Introduction to Play and Recreation. 2 cr. Emphasizes design, leadership, programs and the administration of parks and playgrounds. *EL*.

PED 204 Principles of, and Introduction to Physical Education. 2 cr. An overview of health education, physical education, intramurals, athletics and recreation; specialized areas in the various fields and the vocational opportunities offered in each; personal and professional qualifications of a physical educa-

tor with emphasis on establishing the role of physical education in society. *EL*.

PED 205 Prevention and Treatment of Athletic Injuries. 2 cr. Procedures and techniques in the prevention and care of common athletic injuries. Diagnosis, rehabilitation and the relationship of an athletic trainer to athletes, coaches and administrators. *EL*.

PED 206 Personal Health. 2-3 cr. Survey of the various aspects of health which affect both the individual and the community. Topics include drugs, smoking, alcohol, venereal disease, mental health and others. *EL*.

PED 207 Basketball Theory and Coaching. 2 cr. Theory and methods of teaching and coaching basketball. Skill analyses, practice schedules, rules and fundamentals of individual and team play are covered. *EL*.

PED 208 Developmental Activities for Children. 2 cr. The theory, organization and teaching of developmental activities to elementary school children. Observation and practical teaching labs. *EL*.

PED 209 Theory, Technique and Practice (Team Sports). 2 cr. Fundamental movement skills and an operational understanding of human movement. Lab practice in selected team sport skills. *EL*.

PED 210 Theory, Techniques and Practice (Individual Sports). 2 cr. Fundamental movement skills and an operational understanding of human movement. Lab practice in selected individual sport skills. *EL*.

PED 211 Physical Education for Elementary Schools. 2 cr. Thorough examination of elementary school curricula through field observation, teaching and participation in activities. Bases for planning curriculum for primary and elementary grades are developed through selective readings and discussions. *EL*.

PED 212 Tumbling, Trampoline and Floor Exercise. 2 cr. Skill development, safety, spotting techniques and teaching progressions in tumbling, trampoline and floor exercise for students majoring in physical education and related fields. *EL*.

PED 213 Red Cross First Aid and Emergency Medical Care. 2-3 cr. (Same as MLS 213.) Principles and procedures in emergency and home medical care designed to prepare the layperson for emergencies likely to be encountered in daily living. Upon successful completion, Standard A.R.C. First Aid certification for 2 cr. or Advanced First Aid certification for 3 cr. will be awarded. CPR certification is not awarded in PED 213. CPR certification is granted only in PED 123. *EL*.

PED 214 Individual and Dual Sports. 2 cr. Theory and practice in golf, tennis and badminton. Emphasis on skill analysis and teaching technique. *EL*.

PED 215 Sports Officiating. 2 cr. A theoretical and practical approach to officiating athletic contests at various levels of competition. The mechanics of officiating, knowledge, interpretation of rules and field experience are integral parts of the course. *EL*.

PED 216 Outdoor Education. 2 cr. An overview of the philosophy, resources, skills, methods and activities associated with the natural environment as a laboratory for the achievement of selected objectives of education. The emphasis is on participation and leadership situations in the outdoors. *EL*.

PED 217 Social Aspects of Sport. 2-3 cr. A course focusing on sport institutions as social organiza-

tions and how they function within a culture. Emphasis is placed on group structure and membership and group pressure, socialization, stratification and deviance as they apply to the sport's setting. Selected topics include sport in educational institutions, minorities and women in sport, sport as work and play, and sport and the media. *EL*.

PED 291* Special Topics in Physical Education. 1-3 cr. Course content must be approved by the local campus and the chairman of the department. *EL*.

PED 299* Independent Study in Physical Education. 1-3 cr. Program must be approved by chairman of the department. *EL*.

PHYSICS

PHY 107 Ideas of Modern Physics. 3-4 cr. An introductory course for non-science majors, with particular emphasis on the development of modern theoretical concepts. Central topics: classical mechanics, electromagnetism, quantum theory, relativity theory; some discussion of historical and philosophical aspects. May be offered without laboratory work for three credits or with laboratory for four credits. Check the local timetable for credits listed. Not open to those who have had one or more courses in college physics; does not apply toward engineering or physics majors, or toward the physics requirements for pre-professional courses. Prereq: minimal mathematics preparation. *EL*, 3 cr.; *LS*, 4 cr.

PHY 110 Physics for the Health Sciences. 3-4 cr. A descriptive introduction to those basic concepts of physics which have application to human health in general, and to the medical and paramedical professions in particular. Primary attention will be paid to the physics of various functions of the human body (e.g. muscular and skeletal motions, and the several senses, neural processes) and to the physics of commonly used instruments and equipment. Prereq: high school general science and algebra or cons. instr. *EL*, 3 cr.; *LS*, 4 cr.

PHY 120 Physical Science. 3-4 cr. Selected topics from physics, geology, and astronomy. This course is not intended for those planning to major in a physical science; it does not fulfill the prerequisites for any more advanced courses. May be offered without a laboratory for three credits or with a laboratory for four credits. Check the local timetable for credits listed. Not open to those who have had Physics 103, Physics 201, or equivalent. Prerequisites: None. *EL* - 3 cr., *LS* - 4 cr.

PHY 141 General Physics. 4 cr. The study of mechanics, heat, wave motion, and sound. Recommended for students majoring in business, elementary education, medical technology, pharmacy, pre-dentistry, and pre-medical studies. Three hours of lecture and three hours of laboratory-discussion per week or equivalent. Prereq: one unit each of high school algebra and geometry. *LS*.

PHY 142 General Physics. 4 cr. A continuation of Physics 141. Electricity, magnetism, light, atomic, and nuclear physics. Three hours of lecture and three hours of laboratory-discussion per week, or equivalent. Prereq: PHY 141. *LS*.

PHY 201 General Physics. 5 cr. The study of mechanics, heat, wave motion, and sound. Recommended for physical science and engineering ma-

jors. Three hours of lecture, one hour of discussion, and three hours of laboratory per week, or equivalent. Prereq: MAT 221 or concurrent registration with cons. instr. *LS*.

PHY 202 General Physics. 5 cr. A continuation of Physics 201. Electricity, magnetism, light, and nuclear physics. Prereq: PHY 201, concurrent registration in MAT 222 or cons. instr. *LS*.

PHY 205 Modern Physics. 3 cr. Introduction to atomic, nuclear, solid state physics; kinetic theory, quantum theory. Prereq: PHY 202 and cons. instr. *EL*.

PHY 211 General Physics. 4 cr. The study of mechanics, heat, and thermodynamics. Recommended for physical science and engineering majors. Three hours of lecture and three hours of laboratory per week, or equivalent. Prereq: concurrent registration in MAT 221. *LS*.

PHY 212 General Physics. 4 cr. A continuation of Physics 211. Periodic motion, waves, electricity and magnetism. Three hours of lecture and three hours of laboratory per week, or equivalent. Prereq: PHY 211 and concurrent registration in MAT 222. *LS*.

PHY 213 General Physics. 4 cr. A continuation of Physics 212. Electromagnetic waves, atomic and nuclear physics. Three hours lecture and three hours of laboratory per week, or equivalent. Prereq: PHY 212. *LS*.

PHY 291* Topics in Physics. 1-3 cr. An extended coverage of one or more topics in physics such as environmental physics, energy, biophysics, mechanics, electricity and magnetism, electromagnetic radiation, statistical physics, solid state physics, relativity, quantum mechanics, atomic and nuclear physics. Prereq: cons instr. *EL*.

PHY 299* Independent Study. 1-3 cr. Independent study under the supervision of an instructor. The work may, for example, consist of advanced laboratory investigation into a particular topic or library research and writing of a paper on some subject of interest. Prereq: cons. instr. *EL*.

PHYSIOLOGY

(See Biological Sciences)

POLITICAL SCIENCE

POL 101 Introduction to Politics. 3-4 cr. A general introduction to political science, including basic concepts such as power, authority, legitimacy; types of political systems, and approaches to the study of politics; problems common to all political systems. *SS*.

POL 104 American Government and Politics. 3-4 cr. Study of the structure and decision-making processes of American national government. *SS*.

POL 106 Comparative Politics of Major Nations. 3-4 cr. Analysis of the political systems of select major nations of the world, stressing comparison of cultures, institutions, processes, and methods of comparative analysis. *SS*.

POL 199 Current Issues in Politics. 1-2 cr. Examination of controversial and timely issues. *SS*.

POL 201 Introduction to Political Theory. 3 cr. What is the ideal in politics and government? A survey and analysis of ideas relating to political systems and values. Prereq: previous course in political science or cons. instr. *SS*.

POL 206 Politics of Developing Areas. 3-4 cr. A critical examination of developmental concepts, socioeconomic and political problems of the Third World. Problem in development of new institutions. Elites and ideologies affecting stability, continuity and revolution. *SS*.

POL 213 Urban Politics. 3 cr. Organization and structure of city government, city politics, development, policy problems and futures. *SS*.

POL 219 Public Policy. 3-4 cr. Major issues of public policy in such fields as economic management, welfare, health, education, energy, environment, agriculture, etc. How public problems develop, approaches to policy-making, why programs succeed and fail. Students can repeat the course with different content. *SS*.

POL 220 Politics of Crime and Punishment. 3 cr. An introduction to public policy as it affects public order: crime, criminals, police behavior, the criminal courts, juvenile justice and prisons. This course includes an analysis and evaluation of existing reform proposals. *SS*.

POL 221 Juvenile Criminal Justice in Wisconsin. 3 cr. Survey of Wisconsin institutions which deal with youthful offenders; processes employed in disposal of cases; police and social welfare agencies; juvenile courts; constitutional law cases defining rights of the accused. Prereq: consent of the instructor. *SS*.

POL 225 State and Local Government. 3-4 cr. Organization, structure and function of state and local governments, with emphasis on Wisconsin. *SS*.

POL 243 Public Administration. 3 cr. An introductory study of the role and principles of administration in modern public and private institutions; analysis of the organized processes of bureaucracy for the effective utilization of human and material resources to attain the goals of society. Prereq: previous course in political science or cons. instr. *SS*.

POL 275 International Politics. 3-4 cr. Analysis of nation-states and the international system; contemporary issues in the world; political, economic, and military; power relationships among states. *SS*.

POL 298 Special Topics. 3-4 cr. An umbrella course to be used for topics which would be appropriate for freshmen and sophomores. (The topic and number of credits will be footnoted whenever the course number is to be used.) This course can be repeated by students, but not with the same content. Prereq: previous course in political science or cons. instr. *SS*.

POL 299 Independent Reading. 1-3 cr. Extensive reading for the purpose of surveying the literature in a particular subject, possibly including a research project, under the personal supervision of the instructor. Subject open, to be determined by the student and instructor. Students may be encouraged to use off-campus library resources when available. Prereq: cons. instr. *SS*.

POL 308 American Presidency. 3-4 cr. The President as chief administrative leader, political leader, foreign policy initiator, commander-in-chief and head of state. Prereq: previous course in political science. *SS*.

POL 324 Political Parties and Pressure Groups. 3 cr. Analysis of the nature and functions of political parties; organization and operation of parties and interest groups; nominations, elections, voting behavior, and role in government. Prereq: previous course in political science or cons. instr. *SS*.

POL 352 Role of Government in the Economy. 3 cr. Examination of interaction of government and the economy; governmental activities affecting business such as policies of anti-trust, control of competitive practices, regulations, public expenditures, subsidies, transfer payments, and public enterprise. Prereq: previous course in political science or economics or cons. instr. *SS*.

POL 354 Politics of the International Business System. 3-4 cr. An analysis of the roles governments play in international business: licensing, taxation, commercial policies, monetary institutions, labor laws, environmental protection. Course includes discussion of the multinational companies. Prereq: POL 352 or cons. instr. *SS*.

POL 385 Politics of American Foreign Policy. 3-4 cr. An examination of U.S. foreign policies since 1945 with emphasis on the motives, the objectives, the methods, the policy-making process, and the interaction between domestic and foreign policy. Prereq: previous course in political science or cons. instr. *SS*.

PSYCHOLOGY

PSY 201 Introductory Psychology. 4 cr. Overview of major content areas in psychology, such as perception, learning, motivation, psychophysiology, development, cognition, research methodology, psychopathology, social psychology, and personality. Advanced freshman standing recommended. Students who have taken PSY 202 may not take course for credit. *SS*.

PSY 202 Introductory Psychology. 3 cr. (See PSY 201 course description. Students who have taken PSY 201 may not take course for credit. *SS*.

PSY 203 Individuals and Institutions: Concepts/Experience I. 3 cr. (One credit with concurrent registration in EDU 200.) Lecture/discussion presentation of concepts of human behavior will be related to concurrent experiences in community agencies—e.g., schools, social services departments and hospitals. Agency placements involve a minimum commitment of five hours per week and will provide some direct contact between the students and agency clients. Two hours of lecture and discussion will be required, with opportunity for additional individual discussion. Prereq: PSY 201, 202, concurrent registration and cons. instr. *SS*.

PSY 204 Individuals and Institutions: Concepts/Experience II. 3 cr. Continuation of PSY 203. Prereq: PSY 203 and cons. instr. *SS*.

PSY 205 Dynamics of Individual Behavior. 3 cr. Modes of functioning in normal individuals, strategies of adjustment to crisis situations, motivation, identity, frustration and conflict, including an overview of concepts of personality and psychopathology. Prereq: PSY 201 or 202. *SS*.

PSY 208 Female and Male: Psychology of Gender. 3 cr. (Same as WOM 208) The process and conse-

quences of gender role development: review of current research and theory in the context of biological, cultural and psychological perspectives. Prereq: PSY 201, 202 or cons. instr. *SS*.

PSY 210 Psychological Statistics. 3 cr. Measures of central tendency, variability; probability, sampling distributions; hypothesis testing, confidence intervals; t-tests; chi-square; regression and correlation (linear) and introduction to analysis of variance. Prereq: PSY 201, 202 or concurrent registration and introductory college algebra or exemption. *SS*.

PSY 224 A Conceptual Introduction to Statistics. 1 cr. This course is designed specifically as a supplement to PSY 225 for students who have had no previous course in statistics. It is not a substitute for PSY 210 and does not satisfy requirements for an introductory course in statistics. Prereq: PSY 201, 202 and concurrent registration in PSY 225. *SS*.

PSY 225 Experimental Psychology. 5 cr. Emphasis on research techniques and methodology; collection, analysis, and reporting of psychological data. Lecture and laboratory. Prereq: PSY 210, equivalent statistics course or cons. instr. *LS*.

PSY 250 Developmental Psychology: The Life Span. 3 cr. A survey of human development theories and research integrating the biological, cognitive, emotional, and social development of the individual through all stages of the life span from the prenatal period through old age. Students who earned credit in PSY 250 may not receive associate degree credit for 560, 561 or 562. Prereq: PSY 201 or 202; *SS*.

PSY 254 Physiological Psychology. 3 cr. Discussion of the physiological substrates of movement, attention, emotion, motivation, learning, thinking and language; including an examination of research techniques using neural lesions, electrical and chemical stimulation. Prereq: PSY 201 or 202. *SS*.

PSY 299 Directed Study in Psychology. 1-3 cr. Extensive reading for the purpose of surveying the literature in a particular subject, possibly including a research project, under the personal supervision of the instructor. Prereq: PSY 201, 202 and cons. instr. *SS*.

PSY 411 Current Topics on Psychology. 1-3 cr. Specific topic to be announced in campus timetable. Prereq: PSY 201, 202 or cons. instr. *SS*.

PSY 449 Animal Behavior. 3 cr. Behavior patterns of animals with particular emphasis on the social behavior, territoriality, sexual behavior, family patterns, aggression, defense and cooperation. Review of both experimental and ethological literature. Prereq: PSY 201 or 202 and five hours of zoological sciences. *SS*.

PSY 507 Psychology of Personality. 3 cr. Discussion of major theories and research in personality. Prereq: PSY 201 or 202. *SS*.

PSY 509 Abnormal Psychology. 3 cr. A survey of contemporary theory and research on diagnostic categories, approaches to treatment and understanding of abnormal behavior. Prereq: PSY 201 or 202. One additional course in Psychology is recommended. *SS*.

PSY 530 Social Psychology. 3 cr. Examination of theory and research in such areas as social perception, attitude formation and change, attribution theory, attraction, group processes, conformity and compliance, aggression and prosocial behavior. Prereq: PSY 201 or 202. *SS*.

PSY 560 Developmental Psychology: The Child. 3 cr. An examination of development from conception through adolescence. Topics include genetic influences, models of acquisition of learned behavior, motor, perceptual, cognitive, language, emotional and social development. Students with credit in PSY 560 may not receive credit in PSY 250. Prereq: PSY 201 or 202. *SS*.

PSY 561 Developmental Psychology: Adolescence. 3 cr. Topics include physical development; the problems of adjustment which accompany and follow the physiological changes during puberty; intellectual, emotional and social behavior. Students with credit in PSY 561 may not receive credit in PSY 250. Prereq: PSY 201 or 202. *SS*.

PSY 562 Developmental Psychology: Adulthood. 3 cr. Topics include physical, intellectual, personal and interpersonal development; with emphasis on adjustive responses to life challenges such as career choice, marriage, parenthood, aging, and dying. Students with credit in PSY 562 may not receive credit for PSY 250. Prereq: PSY 201 or 202. *SS*.

SOCIOLOGY

SOC 101 Introduction to Sociology. 3 cr. A study of the basic concepts, theories, and methods of sociology, emphasizing the significance of culture and personality, social process and organization, forces of social stability and change. *SS*.

SOC 120 Marriage and Family. 3 cr. Social science contributions to understanding processes of creating, maintaining and dissolving intimate relationships. *SS*.

SOC 125 Contemporary American Society. 3 cr. Patterns of contemporary social life in the United States and Canada; cultural orientation, social structures and dynamics of social change. *SS*.

SOC 130 Contemporary Social Problems. 3 cr. Sociological analysis of selected issues and problems in society, with focus on personal and social causes, dimensions, consequences, and solutions. *SS*.

SOC 131 Crime and Criminal Justice. 3 cr. This course will provide an introduction to the day-to-day functioning of the elements of the criminal justice system in the United States. The course explores the nature of crime in the United States, and reviews ideas about causes and solutions. Major emphasis is on the sociology of the component parts of the criminal justice system—the organization and role of police, lawyers, court and correctional personnel. *SS*.

SOC 134 Problems of American Minority Groups. 3 cr. The nature, problems and adjustments of American racial, religious, ethnic and nationality groups; proposals for reduction of intergroup tension. *SS*.

SOC 138 Sociological Perspectives on Women. 3 cr. (Same as WOM 138.) A sociological examination of the status and role of women in society, including the experience of women in marriage, motherhood, employment and occupational attainment, socialization into sex roles and cultural reinforcement of these. Attention to both existing patterns and change in those patterns. *SS*.

SOC 160 Sociology of Human Sexuality. 3 cr. Social, psychological and sociological aspects of sex-

ual relationships and behavior, including the social psychology of physiological and emotional arousal, interpersonal attraction, and societal regulation on intimate relationships. Concepts and findings in these areas are related to empirical data on sexual behavior, including pre-marital relationships, particularly in American society. *SS*.

SOC 170 Introduction to World Population. 3 cr. Determinants and consequences of population size and growth. Changing levels of birth rates and death rates and their future social and economic implications. Fertility regulations and population policies, in countries at various stages of development. *SS*.

SOC 250 Organizations and Society. 3 cr. Role of organizationism including industrial, governmental and educational ones, in American society. Topics: impact of organizations on members and clients, the internal dynamics of organizations, and the interchange between organizations and their environment, including the society as a whole. Prereq: sophomore standing. *SS*.

SOC 291 Selected Topics in Sociology. 1-3 cr. The topic selected will be in some area of special competence of the instructor. When this course is offered, the specific topic will be given in the campus timetable. Prereq: sophomore standing and one course in sociology or cons. instr. *SS*.

SOC 293 Proseminar in Sociology. 1-3 cr. The topic selected will be in some area of special competence of the instructor. When this proseminar is offered, the specific focus will be stated in the campus timetable. Prereq: sophomore standing, an introductory sociology or anthropology course, one additional course in sociology and cons. instr. *SS*.

SOC 299 Independent Reading in Sociology. 1-3 cr. Prereq: sophomore standing and cons. instr. *SS*.

SOC 357 Methods of Sociological Inquiry. 3 cr. Scientific methods and their application in the analysis of society; procedures in testing sociological theory; problem definition, hypothesis construction, collection and evaluation of data. Prereq: sophomore standing and an introductory sociology course or cons. instr. *SS*.

SOC 530 Introductory Social Psychology. 3 cr. Introduction to the general area of social psychology, covering such topics as motivation, attitude, value, communications, leadership, etc. Prereq: sophomore standing and either SOC 101, ANT 100, PSY 201 or PSY 202. *SS*.

SPANISH

(See Foreign Language)

SPEECH AND DRAMATIC ARTS

(See Communication Arts)

WILDLIFE RESOURCES

(See Biological Sciences)

WOMEN'S STUDIES

WOM 101 An Intro to Women's Studies. 3 cr. (Same as INT 101.) An introduction to the major problems addressed by Women's Studies with an emphasis on the theoretical and methodological issues involved in gaining accurate knowledge about women. *EL*.

WOM 138 Sociological Perspective on Women. 3 cr. (Same as SOC 138.) A sociological examination of the status and role of women in society, including the experience of women in marriage, motherhood, employment and occupational attainment,

socialization into six roles and cultural reinforcement of these. Attention to both existing patterns and change in those patterns. *SS*.

WOM 202 Feminist Philosophy. 3 cr. (Same as PHI 202.) An introduction to feminist philosophies through a study and critique of traditional and feminist views about women, their lives, society and knowledge, with particular attention to theories of women's oppression. Prereq: three credits in philosophy recommended but not required. *HU/SS*.

WOM 208 Female and Male: Psychology of Gender. 3 cr. (Same as PSY 208.) The process and consequences of gender role development: review of current research and theory in the context of biological, cultural and psychological perspectives. Prereq: PSY 201, 202 or cons. instr. *SS*.

WOM 250 Women in Cross-Cultural Perspective. 3 cr. (Same as ANT 250.) The study of the position of women in a variety of societies around the world.

Includes consideration of the sexual division of labor, marriage systems, child rearing, relations between men and women and systems of myth and ideology concerning women's roles. The effects of socio-economic development and rapid social change are examined. *SS*.

WOM 291*, Selected Topics in Women's Studies. 1-3 cr. Designed to focus in depth on a particular area of Women's Studies. Specific topic to be announced in campus timetable. Prereq: cons instr. *EL*.

WOM 299* Independent Study in Women's Studies. 1-3 cr. Extensive reading for the purpose of surveying the literature in a particular area, possibly including a research project, under the personal supervision of the instructor. Prereq: cons. instr. *EL*.

Not all courses are offered at all Centers. Check your campus timetable for course offerings.

University of Wisconsin Center— Baraboo/Sauk County

1006 Connie Road, Baraboo, WI 53913, (608)356-8351

Location: The University of Wisconsin Center-Baraboo/Sauk County campus is a scenic 68-acre site overlooking the City of Baraboo and the Baraboo Bluffs.

Student body: In fall 1984, 470 students were enrolled; 266 men and 205 women. There is a mix of full-time and part-time students. Student age varies widely and more than 50 percent of the student body is over age 25.

The campus draws students from the cities of Baraboo, Wisconsin Dells, Portage, and Sauk Prairie as well as other surrounding communities.

Facilities: The campus includes three modern buildings. Classrooms, laboratories, art studios, a greenhouse, and faculty and administrative offices are located in the Administration/Classroom building. The Library-Learning Resource Center is located across the campus. The facility was a pioneer in Wisconsin education in incorporating AV materials into a classroom setting. Student recreational facilities, theater and student services offices are located in the adjoining Student Center.

Special Programs: *Academic*—Selected courses provide the science and liberal arts component of the nursing program for Madison Area Technical College-Reedsburg, Continuing Education Program which includes monthly seminars, Associate Degree Program at Oxford Federal Corrections Institution, College for Kids, Music Clinic, Elderhostel; *Scholarships*—Friends of the Campus Scholarship program; *Lecture and Arts*—movie series, Campus Singers, campus-community theatre - The Rogues and Vagabonds, campus-community jazz band, civic chorus, brass choir, community band; *Extracurricular*—intramural and varsity sports.

Course offerings

The following courses may be offered at least once during a two-year period. Variations in the courses offered each semester are due to the availability of faculty, student demand, resources and curriculum changes. Check the Center's class schedule, or timetable, for specific course offerings.

Anthropology 100, 200

Art 101, 102, 111, 112, 121, 161, 171, 187, 188, 193, 201, 202, 251

Biological Sciences

Bacteriology 101,
Botany 130, 291, 299
Physiology 202, 203
Zoology 101

Business & Economics

Business 101, 110, 201, 202, 204, 210
Economics 203, 204

Chemistry 125, 145, 155, 343, 363

Communication Arts 102, 103, 130, 131, 150, 160, 201, 220, 232, 266, 268,

Computer Science 110, 111, 113, 210, 211, 213, 252

Engineering

Mechanics 201, 202

English & Literature 101, 102, 203, 204, 250, 270, 272, 276, 280, 290, 299, 351, 370

Foreign Language

French 101, 102, 201, 202, 215, 222, 223, 225, 226, 275, 276, 277, 291, 299

Geography 104, 123, 124, 350

Geology 101, 102, 135

History 101, 102, 105, 106, 118, 270

Mathematics 102, 105, 110, 113, 211, 124, 212, 221, 222, 223, 299

Music 071, 072, 073, 074, 075, 076, 077, 078, 170, 171, 172, 173, 174, 273, 295, 299

Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 101, 102, 103, 211, 240, 241, 242, 291, 299

Physical Education 001, 009, 014, 016, 019, 027, 123, 204, 213, 217

Physics 141, 142, 201, 202

Political Science 101, 104

Psychology 202, 205, 210, 250, 507, 509, 530, 560, 562

Sociology 101, 130, 131, 134, 138, 250

Administration

Umhoefer, Aural M. (1965)

Dean

B.A., Rosary College

M.S., University of Wisconsin-Madison

Chvala, Sharon A. (1977)

Specialist, Continuing Education

Specialist, Public Information

Grant, Mary (1969)

Coordinator, Continuing Education

B.A., Northeastern State College,
Tahlequah, Okla.

M.S., University of Illinois-Urbana

Lind, Samuel (1979)

Director, Oxford College Program

B.S., Northern Michigan University

M.A., Michigan State

Ed.D., Indiana University

Raught, Linda (1968)

Business Manager

Stroede, Dennis J. (1968)

Director, Student Services

B.A., University of Missouri-Columbia

M.S., University of Wisconsin-Madison

M.A., University of Alabama

Stroede, Mary E. (1968)

Specialist, Library

B.A., University of Florida-Gainesville

Vladick, Mark R. (1972)

Specialist, Media Services

B.S., University of Wisconsin-Madison

Faculty

Bechtel, Donald J. (1966)

Associate Professor, History

B.S., University of Wisconsin-LaCrosse

M.A., University of South Dakota

Ed. D., University of South Dakota

Cole, David W. (1965)
 Professor, English
 B.A., Oberlin College
 M.A., Syracuse University
 Ph.D., University of Wisconsin-Madison

Donner, Robert (1969)
 Assistant Professor, Computer Science/
 Physics

B.S., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison

Drennan, William (1981)

Lecturer, English

B.A., University of Florida

M.A., University of South Florida

A.B.D., University of South Florida

Eddy, Jennifer E. (1965)

Assistant Professor, Chemistry

B.A., Bemidji State College

B.S., Bemidji State College

M.S., Bemidji State College

Etzwiller, David J. (1977)

Lecturer, Math/Computer Science

B.A., Saint Joseph's College

M.A., University of Wisconsin-Madison

Floody, Dale R. (1978)

Assistant Professor, Psychology

B.A., St. John's University

Ph. D. Rutgers State University-Douglas

Grant, Kenneth B. (1978)

Assistant Professor, English

B.A., DePaul University

M.A., Marquette University

Ph.D., Marquette University

Haney, Emil (1979)

Associate Professor, Business and
 Economics

B.S., Ohio State University

M.S., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Haney, Wava (1980)

Lecturer, Sociology

B.S., Ohio State University

M.S., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Lind, Diann (1981)

Lecturer, Geography/Geology

B.S., Bowling Green University

M.A., Bowling Green University

Morgan, Steven (1982)

Lecturer, Music

B.A., University of Redlands

M.S., University of Wisconsin-Madison

Phelps, Janet (1969)

Associate Professor, Biological Sciences

B.A., Antioch College, Yellow Springs, Ohio

Ph.D., University of Wisconsin-Madison

Phelps, Laurence N. (1972)

Assistant Professor, Biological Sciences

A.B., Carleton College

M.A., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison



Poland, Helene (1982)

Lecturer, Philosophy

B.A. College of White Plains

M.A., Fordham University

Ph.D., Fordham University

Robkin, Eugene E. (1975)

Assistant Professor, Mathematics

B.S., California Institute of Technology-
 Pasadena

M.A., University of California-Los Angeles

Ph.D., University of California-Los Angeles

Rundio, Stephen J. III (1976)

Assistant Professor, Physical Education

A.B., Guilford College

M.Ed., University of North Carolina

Ed.D., University of North Carolina

Sivagurunathan, Sreetharasivam (1977)

Lecturer, Chemistry

B.S., Newcastle University, Australia

M.S., Iowa State University

Solomon, Isaac (1977)

Associate Professor, Mathematics

B.S., Rajasthan University, India

M.S., Jodhpur University, India

M.S., Marquette University

Stich, Gerald L. (1969)

Professor, Music

B.A., University of Wisconsin-Madison

M.M., University of Wisconsin-Madison

Waddell, Mark (1980)

Assistant Professor, Communication Arts

B.S., University of Wisconsin-Madison

M.A., University of Wisconsin-Madison

Whitney, John A. (1969)

Associate Professor, Art

B.A., Grinnell College

M.F.A., Rochester Institute of Technology

Wright, Madeleine F. (1968)

Associate Professor, French

License-et-Lettres, University of France

M.A., University of Wisconsin-Madison

Ph.D., University Of Wisconsin-Madison

University of Wisconsin Center— Barron County

1800 College Drive, Rice Lake, WI 54868, (715)234-8176

Location: The University of Wisconsin Center-Barron County is located 60 miles north of Eau Claire at Rice Lake. The campus is south of the city on 135 acres beside the Red Cedar River.

Student body: In fall 1984, 342 students were enrolled; 187 men and 155 women. There is a mix of full-time and part-time students. There also is an age mix, with nearly one quarter of the student body being over age 25.

Students at UWC-Barron come from all over northwest Wisconsin. Many come from such towns as Barron, Cumberland, Rice Lake, Spooner, and Chetek.

Facilities: There are seven buildings on the campus: Ritzinger Hall, Library, Fine Arts Building, Gymnasium, Student Union, Administration Building and Maintenance Building. The Center shares the library, student center and gymnasium facilities with the Wisconsin Indianhead Technical Institute, whose campus is adjacent to UWC-Barron.

Special programs: *Academic*—observatory, community outreach programs, educational trips to Grand Canyon and to France (biennially), careership-career exploration program; *Lecture and Arts*—community band, summer music clinic, summer amphitheater program sponsored by Barron County Foundation, theater; *Extracurricular*—intramural and varsity sports, newspaper, forensics.

Course offerings

The following courses may be offered at least once during a two-year period. Variations in the courses offered each semester are due to the availability of faculty,

student demand, resources and curriculum changes. Check the Center's class schedule, or timetable, for specific course offerings.

Art 101, 111, 112, 121, 183, 185, 221, 222, 223, 224

Astronomy 100

Biological Sciences

Bacteriology 101

Biology 109, 250

Botany 109, 130, 250

Physiology 104

Zoology 101, 140, 277

Business & Economics

Business 101, 110, 194, 201, 204

Economics 203, 204

Chemistry 125, 145, 155

Communication Arts 100, 101, 102, 103, 131, 230, 232, 234, 266, 348, 349

Computer Science 110, 211, 213

Engineering

Mechanics 201, 202

English & Literature 101, 102, 202, 250, 260, 262, 274,

Foreign Language

French 101, 102, 201, 202

Geography 123, 124, 342, 350

Geology 101, 102

History 101, 102, 105, 106, 278, 289, 290

Interdisciplinary Studies Lea 100, 102, 106

Mathematics 102, 105, 113, 117, 124, 130, 132, 221, 222, 223, 262, 299

Music 071, 073, 074, 075, 076, 077, 078, 107, 115, 121, 130, 136, 170, 171, 172, 173, 271, 272, 273, 275, 276

Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 101, 211, 241, 291, 299

Physical Education 027, 028, 102, 104, 109, 115, 116, 123, 206, 207, 213, 215

Physics 141, 142, 211, 212, 213

Political Science 101, 104

Psychology 201, 210, 530, 560, 562

Sociology 101, 120, 130

Administration

Meggers, John F. (1966)

Dean

Coordinator, Public Information

B.S., University of Wisconsin-Oshkosh

M.S., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Gilbertson, Gene A. (1968)

Assistant Professor

Admissions Counselor, Student Services

B.S., University of Wisconsin-River Falls

M.A., Winona State College

Hartmann, Eugene L. (1966)

Professor

Director, Student Services

Business Manager

B.S., College of St. Thomas

M.S., University of Wisconsin-Stout

Ph.D., University of Missouri

Morse, Grant W. (1966)

Assistant Professor, Library/Media Services

B.A., Ottawa University

M. Div., Eastern Baptist Theological

Seminary

M.S., New York State University, Albany

Faculty

Amin, Ruhul M. (1983)

Assistant Professor, Sociology/Political Science

B.A., University of Dhaka

M.A., University of Akron

D.P.A., Carleton University

M.A., Carleton University

M.A., University of Dhaka

Ph.D., University of Akron

Arntson, Wayne W. (1967)

Associate Professor, Chemistry

B.S., University of Wisconsin-Eau Claire

M.A., State College, Cedar Falls, Iowa

Ed.D., University of Northern Colorado

Bechtel, Donald L. (1966)

Associate Professor, History

B.S., University of Wisconsin-La Crosse

M.A., University of South Dakota

Ed.D., University of South Dakota

Crisler, Dale E. (1966)

Associate Professor, Physics/Math
B.S., University of Wisconsin-River Falls
M.S., Vanderbilt University
Ph.D., University of Wyoming

Grivna, Dennis (1969)

Associate Professor, Biological Sciences
B.S., University of Wisconsin-River Falls
M.S., University of Wisconsin-River Falls

Hallstrom, Michael E. (1984)

Assistant Professor, Business and Economics

Harms, Dennis A. (1967)

Assistant Professor, Music
B.S., University of Minnesota
M.A., Colorado State College

Hasman, Robert H. (1972)

Assistant Professor, English
B.S., University of Illinois
A.B., University of Illinois
A.M., University of Illinois

Hoef, Mary E. (1971)

Assistant Professor, French/Communication Arts

B.S., University of Wisconsin-Oshkosh

M.S.T., University of Wisconsin-Eau Claire

Jenkins, David D. (1966)

Assistant Professor, History
B.S., University of Wisconsin-La Crosse
M.S., University of Wisconsin-La Crosse
D.A., University of North Dakota
D.A.T., University of North Dakota

Loomer, Harry T., Jr. (1967)

Associate Professor, Geography
B.S., University of Wisconsin-Eau Claire
M.A., Michigan State University

Moffe, Lawrence D. (1982)

Instructor, Mathematics
B.S., Augustana College
M.A., University of South Dakota

Pannier, James M. (1966)

Associate Professor, Communication Arts
B.A., University of Wisconsin-Eau Claire
M.S., University of Wisconsin-Madison
Ed.D., Montana State University

Parker, Ronald F. (1969)

Associate Professor, Physical Education
B.S., University of Wisconsin-La Crosse
M.A., Winona State College
M.S., Winona State College

Ruedy, Donald H. (1969)

Associate Professor, Art
B.S., University of Wisconsin-River Falls
M.F.A., University of Wisconsin-Madison

Schilling, David H. (1969)

Assistant Professor, Mathematics
B.S., University of Wisconsin-Stevens Point
M.A., San Diego State College

Schmid, Karl N. (1968)

Assistant Professor, Mathematics
B.S., University of Wisconsin-River Falls
M.S., Syracuse University

Stauffer, James M. (1966)

Associate Professor, Biological Sciences,
Zoology

B.A., Carleton College

B.S., University of Wisconsin-Eau Claire

M.S., Montana State University

Thompson, Edward G. (1968)

Associate Professor, Vocal Music
B.S., University of Wisconsin-River Falls
M.S., University of Wisconsin-Superior

Tollefsrud-Anderson, Linda (1981)

Assistant Professor, Psychology
B.S., University of North Dakota
Ph.D., University of Texas

Wiesner, Terry (1981)

Lecturer, Communication Arts

B.A., University of Wisconsin-Whitewater

Zimmerman, Ruth M. (1967)

Instructor, English
B.A., Gustavus, Adolphus College
M.A., University of Florida



University of Wisconsin Center— Fond du Lac

Campus Drive, Fond du Lac, WI 54935 (414)929-3600

Location: The University of Wisconsin Center-Fond du Lac is located on 183 acres on the northeast side of Fond du Lac, north of East Johnson Street (Hwy. 23).

Student body: In fall 1984, 573 students were enrolled, 279 men and 294 women. Students attend on a full-time and part-time basis. Their ages vary, and 38 percent are over age 25.

Facilities: The six buildings of the Fond du Lac Center are grouped on the shore of a two acre man-made lake. Facilities include classroom, science and library-administration buildings, a student center, a physical education/music facility and the heating plant. Outdoor education, physical education and recreation facilities include a botanical laboratory, tennis and basketball courts, softball diamonds, an all-weather quarter-mile track and a soccer field.

Special Programs: *Academic*—Evening Courses Program, non-credit Community Outreach, UW Centers Library Processing Center, UW-Oshkosh Graduate Practitioner Program, UW-Oshkosh Interim Program, lecture series; *Lecture and Arts*—Annual Madrigal Dinner, lecture series, Readers' Theatre, Community Band, choir, jazz band; *Extracurricular*—intramural and varsity sports, newspaper, interest clubs. The UWC-Fond du Lac and the Postsecondary Re-Entry Education Program (PREP) offer Associate Degree programs at Kettle Moraine and Taycheedah Correctional Institutions.

Course offerings

The following courses may be offered at least once during a two-year period. Var-

iations in the courses offered each semester are due to the availability of faculty, student demand, resources and curriculum changes. Check the Center's class schedule, or timetable, for specific course offerings.

Anthropology 100, 200
Art 101, 102, 111, 112, 171, 223, 229,
Astronomy 100
Biological Sciences
 Bacteriology 101
 Biology 107, 109, 151, 160, 260
 Botany 130, 299
 Physiology 235
 Zoology 101, 105, 234, 237, 299
Business & Economics
 Business 101, 110, 201, 202, 204, 243
 Economics 101, 203, 204, 243
Chemistry 100, 125, 145, 155, 203, 211, 214, 343, 352, 363
Communication Arts 100, 101, 102, 103, 130, 131, 150, 201, 230, 232, 266, 268, 349
Computer Science 110, 211, 252, 243, 253
Education 101
Engineering
 Graphics 102, 113
 Mechanics 201, 202
English & Literature 101, 102, 250, 260, 261, 262, 263, 274, 276,
Foreign Language
 Spanish 101, 102, 201, 202
Geography 101, 110, 115, 123, 124, 342
History 101, 102, 105, 106, 120, 190, 257, 289, 297, 299
Mathematics 091, 102, 105, 110, 113, 124, 130, 132, 211, 212, 221, 222, 223, 240, 299, 320
Meteorology 100
Military Science 100, 101, 103, 105, 106, 110, 120, 205, 220, 301, 302, 401, 402
Music 071, 072, 073, 074, 076, 170, 171, 172, 173, 271, 272, 273, 275, 276
 Applied: piano, voice, and instrumental music; consult Music Department
Philosophy 101, 211, 220, 241, 242, 248, 291, 299
Physical Education 002, 005, 006, 007, 009, 014, 016, 017, 018, 019, 027, 040, 043, 046, 047, 123, 203, 204, 205, 206, 208, 213, 216, 291, 299
Physics 120, 141, 142, 201, 202

Political Science 101, 104, 106, 124, 175
Psychology 202, 210, 530, 560
Sociology 101, 120, 125, 130, 250

Administration

Henken, Willard J. (1968)
 Dean
 B.S., University of Wisconsin-Oshkosh
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison
Clausen, Thomas H. (1974)
 Specialist, Media Services/Public Information
 B.S., University of Wisconsin-Oshkosh
 M.S., University of Wisconsin-Stout
Greisch, Richard G. (1969)
 Assistant Professor, Geography
 Coordinator, Student Services
 B.S., University of Wisconsin-Oshkosh
 M.S., University of Wisconsin-Madison
Koch, Paul G. (1969)
 Librarian
 B.S., University of Wisconsin-Madison
 M.S.L.S., University of Wisconsin-Milwaukee
Loehndorf, Allan H. (1968)
 Professor, Student Affairs
 B.S., M.S., University of Wisconsin-Milwaukee
 Ph.D., Purdue University
Thomas, Kenneth J. (1968)
 Instructor, Business Office/Student Center
 B.S., University of Wisconsin-LaCrosse

Faculty

Armstrong, George M. (1968)
 Associate Professor, Biology
 B.S., University of Wisconsin-Madison
 M.N.S., University of Oklahoma
 Ph.D., University of Oklahoma
Balthazor, Ellen M. (1969)
 Assistant Professor, English
 B.A., St. Norbert College
 M.A., Marquette University

Barisonzi, Judith A. (1976)

Lecturer, English

B.A., Radcliffe College

M.A., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Barrett, Ronald W. (1970)

Associate Professor, Biology

B.A., Gustavus Adolphus College

M.S., University of Minnesota

Ph.D., University of Minnesota

Bolick, William A. (1969)

Assistant Professor, Psychology

B.A., University of Mississippi

M.A., University of Mississippi

Bowser, Joan M. (1969)

Assistant Professor, English

B.A., South Dakota State University

M.A., University of Wyoming

Frick, John (1984)

Assistant Professor, Communication Arts

B.A., Colgate University

M.A., University of Montana

Ph.D., New York University

Griffiths, William P. (1968)

Assistant Professor, Art

B.S., Western Michigan University

M.F.A., University of Wisconsin-Madison

Hayes, Elizabeth L. (1968)

Associate Professor, Biology

B.A., Maryhurst College

M.S., Marquette University

Heil, John B. (1970)

Associate Professor, Physics

B.A., Beloit College

M.A., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Holstein, Ruth B. (1975)

Lecturer, Psychology

B.A., MacMurray College

M.A., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Kelly, Mary K. (1974)

Assistant Professor, Physical Education

B.S., University of North Dakota

M.A., Mankato State College

Knar, Richard A. (1968)

Assistant Professor, Mathematics

B.S., University of Wisconsin-Eau Claire

M.S.T., Rutgers University

Kosted, Judith A. (1970)

Assistant Professor, Communication Arts

B.S., Southern Illinois University-

Carbondale

M.S., Southern Illinois University-

Carbondale

McLane, Margaret E. (1972)

Assistant Professor, History

B.A., Vassar College

M.A., University of Wisconsin-Madison



Ness, Harald M. (1969)

Assistant Professor, Mathematics

B.S., University of Wisconsin-Superior

M.A., Central Michigan University

Nofz, Michael P. (1978)

Instructor, Sociology

B.A., University of Illinois

M.A., Northern Illinois University

Oliver, James A. (1970)

Assistant Professor, Geography

B.S., University of Wisconsin-Milwaukee

M.S., University of Wisconsin-Milwaukee

Rigterink, Roger J. (1973)

Associate Professor, Philosophy

B.A., Carleton College

Ph.D., University of Wisconsin-Madison

Shaw, John G. (1969)

Assistant Professor, Mathematics

B.S., University of Wisconsin-Madison

M.S., Notre Dame University

Van Der Vaart, Richard (1977)

Assistant Professor, Physical Education

B.S., University of Wisconsin-La Crosse

M.A., Western Michigan University

Wadzinski, Ivan M. (1968)

Assistant Professor, Chemistry

B.S., University of Wisconsin-Stevens Point

M.S., Purdue University

Wall, Roger (1978)

Assistant Professor, Political Science

B.A., Millikin University

M.A., University of Stockholm

Ph.D., University of Stockholm

Wifler, Carla J. (1974)

Associate Professor, Chemistry

B.S., University of Wisconsin-Oshkosh

M.S., Purdue University

Wislinsky, Joan E. (1969)

Assistant Professor, Economics

B.S., University of Wisconsin-Oshkosh

M.A.T., Purdue University

University of Wisconsin Center— Fox Valley

1478 Midway Road, Menasha, WI 54952, (414) 735-2620

Location: The University of Wisconsin Center-Fox Valley has a 33 acre campus midway between Appleton and Menasha and three miles from the north shore of Lake Winnebago.

Student body: In fall 1984, 1,169 students were enrolled, 535 men and 634 women. There is a mix of full-time and part-time students. Student age covers a wide range, with 36 percent of the student body over age 25.

Facilities: The Centers' two large multi-purpose buildings contain classrooms, cafeteria, library, planetarium, gymnasium, laboratories, radio station, television studio, lecture hall, day care center, fine arts theater, art gallery and quiet study areas. The campus also has a soccer field and tennis courts.

Special programs: *Academic*—Evening courses, outreach seminars for small businesses, off-campus courses, Continuing Education courses through UW-Extension, observatory, day care facilities, career exploration courses; *Scholarship*—Scholarship Program; *Lecture and Arts*—Center art gallery, community theater, lecture and fine arts series, faculty and guest lecture series; *Extracurricular*—Centerfest! sponsored by UW-Fox Cities Foundation, intramural and varsity sports, radio station, literary magazine, interest clubs, newspaper.

Course offerings

The following courses may be offered at least once during a two-year period. Variations in the courses offered each semester are due to the availability of faculty, student demand, resources and curriculum changes. Check the Center's class

schedule, or timetable, for specific course offerings.

Anthropology 100, 102, 105, 200, 204, 291, 308, 314, 353

Art 101, 102, 111, 112, 113, 121, 131, 151, 171, 181, 183, 187, 201, 202, 219, 221, 222, 223, 224, 229, 231, 232, 253, 254, 259

Astronomy 100

Biological Sciences

Bacteriology 101

Biology 109, 160

Botany 130

Physiology 235

Zoology 101, 234, 237, 291

Business & Economics

Business 101, 110, 194, 201, 202, 204, 210, 243

Economics 101, 203, 204, 230, 243

Chemistry 100, 125, 145, 155, 203, 211, 214, 244, 343, 352, 363

Communication Arts 100, 101, 102, 103, 130, 131, 201, 203, 204, 220, 266, 299

Computer Science 110, 211, 213, 243, 252, 260, 270, 291, 299

Engineering

Graphics 102, 113

Mechanics 201, 202, 203

English & Literature 101, 102, 201, 250, 204, 260, 261, 262, 263, 270, 276, 280, 351, 353, 355, 370

Foreign Languages

French 101, 102, 201, 202

Spanish 101, 102, 118, 201, 202, 225, 291

Geography 101, 110, 123, 124, 341, 342

Geology 101, 102, 299, 409

History 101, 102, 105, 106, 120, 185, 186, 257, 288

Interdisciplinary Studies 197, 291, 294

Learning Resources 100, 102

Lecture Forum 101

Mathematics 091, 105, 110, 113, 117, 211, 212, 221, 222, 223, 230, 232, 240, 299, 320

Music 070, 071, 072, 074, 075, 107, 170, 171, 172, 173, 271, 272, 273, 275, 276, 295

Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 101, 103, 106, 211, 220, 241, 242, 248, 258, 291, 299

Physical Education 006, 007, 009, 016, 018, 019, 024, 025, 026, 027, 028, 029, 204, 206, 207, 213

Physics 141, 142, 201, 202

Political Science 101, 104, 106, 125, 175, 299, 308, 352

Psychology 201, 202, 205, 210, 224, 225, 411, 507, 509, 530, 560, 562

Sociology 101, 120, 130, 131, 134, 293

Administration

Johnson, Rue C. (1973)

Dean

B.A., Brigham Young University

M.A., Brigham Young University

Ph.D., Indiana University

Douglas, Arlene (1980)

Specialist, Public Information

B.A., University of Wisconsin-Whitewater

Eagon, Jim (1980)

Coordinator, Business Office

B.S., University of Wisconsin-Stevens Point

Eagon, Wendy (1983)

Specialist, Day Care Center

B.S., UW-LaCrosse

English, Lyle (Mike) (1980)

Counselor/Advisor, Student Services

B.S., University of Wisconsin-Oshkosh

M.S., University of Wisconsin-Oshkosh

Frantz, Thomas (1981)

Specialist, Media Services

B.A., Thiel College

M.S., Clarion State College

Gibas, Eugene A. (1984)

Associate Professor, Continuing Education

B.A., University of Wisconsin-Madison

M.A., University of Wisconsin-Madison

Hillman, Richard M. (1983)

Director, Student Services

B.A. Alma College

M.A., Michigan State University

Hoffman, Brenda J. (1984)

Counselor, Student Services

B.S., University of Wisconsin-LaCrosse

M.S., University of Wisconsin-LaCrosse

Johnson, Sally (1984)

Coordinator, Office of the Dean

B.A., Lawrence University

Kain-Breese, Aril, (1978)

Specialist/Librarian

B.S., University of Wisconsin-Stevens Point

M.S., University of Wisconsin-Madison



Faculty

Aguero, Jose (1980)

Instructor, Psychology
B.A., Indiana University
M.S., Purdue University
Anderson, Kenneth (1965)

Associate Professor, Communication Arts
B.S., Lawrence University
M.S., University of Wisconsin-Madison

Barrett, Ronald (1976)

Associate Professor, Biology
B.A., Gustavus Adolphus College
M.S., University of Minnesota
Ph.D., University of Minnesota

Boshart, Jeffrey G. (1983)

Assistant Professor, Art
B.A., Montana State University
M.F.A., University of Massachusetts

Collins, Michael (1975)

Assistant Professor, Sociology
B.S., Loyola of Chicago
M.A., University of Notre Dame

Day, William (1981)

Assistant Professor, Music
B.A., University of Dubuque
M.A., University of Iowa

Ducklow, Mary Ellen (1974)

Lecturer, Communication Arts
B.A., University of Wisconsin-Madison
Gazzola, Angelo C., Jr., (1981)

Assistant Professor, Business/Economics
B.S., University of Wisconsin-Green Bay
M.S., University of Wisconsin-Oshkosh

Guither, William (1966)

Professor, Chemistry
B.A., North Central College
M.S., University of New Mexico
Ph.D., University of New Mexico

Hauxhurst, James (1976)

Associate Professor, Biology
B.A., University of California-Santa Barbara

M.A., University of California-Berkeley
Ph.D., University of California-San Diego

Hayes, Patrick (1976)

Associate Professor, Business/Economics
B.B.A., Eastern New Mexico University
M.B.A., Eastern New Mexico University

Hintz, Anne M. (1984)

Assistant Professor, Foreign Languages
B.A., College of Mount St. Vincent
Ph.D., Yale University

Hrubesky, Donald (1973)

Associate Professor, English
B.A., St. Norbert College
Ph.D., Kansas State University

Jordahl, David (1981)

Assistant Professor, Music
B.M. Ed., Gustavus Adolphus College
M.A., University of Iowa

Keepers, Jerry (1969)

Assistant Professor, Mathematics
B.S., University of Wisconsin-Oshkosh
M.S., Brown University
M.S., University of Wisconsin-Milwaukee

Kovach, Martha H. (1978)

Lecturer, Mathematics
B.A., College of St. Catherine
M.A.T., Michigan Christian Junior College
M.A., University of Minnesota

- Lewis, Kay (1975)**
Lecturer, Mathematics/Business Administration
B.S., University of Wisconsin-Stevens Point
M.A., University of Iowa
- Livingstone, Biganess (1976)**
Assistant Professor, Art
B.F.A., Massachusetts College of Art
M.Ph., Newton College
M.F.A., University of Wisconsin-Madison
- McLaren, Theda B. (1977)**
Instructor, Communication Arts
Ph.D., Beloit College
M.A., University of Montana
- Mason, Carol (1960)**
Associate Professor, Anthropology
B.A., Florida State University
M.A., University of Michigan
Ph.D., University of Michigan
- Minock, Michael (1971)**
Professor, Biology
B.A., Stanford University
M.A., California-Northridge
M.S., University of Nebraska-Omaha
Ph.D., Utah State University
- Mueller, Cynthia L. (1983)**
Lecturer, Physical Education
B.S., California State University
- Nyman, Terry (1976)**
Associate Professor, Mathematics
B.A., Western Michigan University
M.A., Western Michigan University
Ph.D., University of Massachusetts
- O'Brien, Michael (1972)**
Professor, History
B.A., Notre Dame University
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison
- Potash, Marc (1977)**
Assistant Professor, Psychology
B.A., Utica College of Syracuse University
M.A., Western Kentucky University
M.A., Carleton University-Canada
Ph.D., Carleton University-Canada
- Putman, Daniel (1976)**
Associate Professor, Philosophy
B.A., Marquette University
Ph.D., University of Southern California
- Sharma, Virendra (1969)**
Professor, Physics/Astronomy
B.S., Agra University of India
M.S., Agra University of India
Ph.D., Colorado State University
- Silha, John (1974)**
Associate Professor, Business/Economics
B.S., University of Wisconsin-Platteville
M.B.A., Indiana University
- Solanke, Ranjit (1983)**
Visiting Assistant Professor, Computer Science
B.S., University of London
M.B.A., University of Rochester
- Spencer, Michael (1971)**
Assistant Professor, Physical Education
B.S., University of Wisconsin-La Crosse
M.S., University of California-Los Angeles
- Stahl, Neil (1976)**
Associate Professor, Mathematics
B.A., Indiana University
Ph.D., Brown University
- Tiptanatoranin, Manat (1983)**
Assistant Professor, Chemistry
B.S., Siam
Ph.D., Canada
- Ullmer, James H. (1984)**
Lecturer, Business and Economics
B.A., University of Wisconsin-Green Bay
M.E.A., University of Wisconsin-Green Bay
- Utschig, Anne (1978)**
Assistant Professor, English
B.A., University of Wisconsin-Milwaukee
M.A., University of Minnesota
- Varma, Badri (1983)**
Assistant Professor, Mathematics
M.Sc., Aligarh Muslim University, India
Ph.D., Simon Fraser University, B.C. Canada
- Warrick, Patricia (1966)**
Professor, English
B.S., Indiana University
B.A., Goshen College
M.A., Purdue University
Ph.D., University of Wisconsin-Milwaukee
- Watt, Jerald (1981)**
Assistant Professor, Mathematics
B.S., Michigan Technological University
M.S., University of Southern California
Ph.D., Michigan Technological University
- Weis, Leonard (1965)**
Associate Professor, Geology
B.S., Harvard University
M.S., Massachusetts Institute of Technology
Ph.D., University of Wisconsin-Madison
- White, Larry (1969)**
Associate Professor, Political Science
B.S., Kansas State College
M.S., Kansas State College
D.A., Idaho State University
- White, Marilee A. (1975)**
Lecturer, English
B.S., Kansas State University
M.E.D., Idaho State University
M.A., Kansas State College at Pittsburg
- Williams, Jack (1985)**
Assistant Professor, English
Ph.D. Rutgers
- Wisniewski, Jerome (1983)**
Assistant Professor, Economics
B.A., University of Wisconsin-Milwaukee
M.A., University of Wisconsin-Milwaukee
- Zimmerman, Lynda (1974)**
Assistant Professor, Music
B.M.E., University of Wisconsin-Eau Claire
M.M., East Texas State University

University of Wisconsin Center— Manitowoc County

705 Viebahn Street, Manitowoc, WI 54220, (414) 683-4700

Location: The University of Wisconsin Center-Manitowoc County is located on the southeastern edge of Manitowoc. The 40-acre campus is bounded by Viebahn Street on the north, Lake Michigan on the east and a 78-acre wooded park on the south.

Student body: In fall 1984, 442 students were enrolled, 212 men and 230 women. Both full-time and part-time students are enrolled. Student age varies, and 26 percent are over age 25.

Facilities: One large multi-purpose building, constructed in 1962, houses classrooms, a lecture hall, library, administrative and faculty offices, science laboratories, a performing arts room, greenhouse, cafeteria and lounge.

Special programs: *Academic*—evening associate degree program, remedial mathematics program, student tutoring service, continuing education program, on-campus Business Outreach program with UW-Green Bay, speakers' bureau; *Scholarships*—scholarship program; *Lecture and Arts*—community theater and orchestra, extensive fine arts series, band, jazz, and choral groups; *Extracurricular*—newspaper, intramural and varsity sports.

Course offerings

The following courses may be offered at least once during a two-year period. Variations in the courses offered each semester are due to the availability of faculty, student demand, resources and curriculum changes. Check the Center's class schedule, or timetable, for specific course offerings.

Anthropology 100, 200, 291, 450

Art 101, 102, 111, 112, 121, 171, 187, 201, 223, 224, 229

Astronomy 100

Biological Sciences

Bacteriology 101, 299

Biology 250

Botany 130, 240, 250, 299

Physiology 235

Zoology 101, 103, 105, 234, 277, 299, 515, 516

Business & Economics

Business 201, 202, 204, 243, 297, 299

Economics 101, 203, 204, 230, 243

Chemistry 100, 125, 145, 155, 203, 211, 214, 290, 299, 343, 352, 363

Communication Arts 100, 101, 103, 130, 131, 150, 201, 203, 230, 232, 234, 266, 298, 299

Computer Science 110, 211, 213, 243, 251, 252, 253, 254, 260, 270, 291, 299

Engineering

Graphics 102, 113

Mechanics 201, 202

English & Literature 101, 102, 201, 204, 250, 260, 261, 262, 263, 270, 276, 280, 290, 299, 351, 353, 355, 370, 380,

Foreign Language

French 101, 102, 201, 202

German 101, 102, 201, 202

Geography 110, 115, 123, 124, 277, 291, 299, 350

Geology 100, 101, 135, 169

History 101, 102, 105, 106, 114, 119, 120, 127, 256, 299

Interdisciplinary Studies 105

Lecture Forum 101

Mathematics 105, 110, 113, 117, 124, 211, 221, 222, 223, 240, 271, 299

Music 070, 071, 072, 074, 075, 131, 132, 170, 171, 172, 173, 275, 280, 295, 299

Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 101, 103, 106, 211, 220, 241, 242, 248, 258, 291, 299

Physical Education - various 1-credit courses, offered each semester, 206, 213

Physics 110, 141, 142, 201, 202, 291, 299

Political Science 101, 104, 175, 201, 299

Psychology 202, 210, 507, 530, 560, 562

Sociology 101, 120, 125, 130, 134, 138, 291, 299

Administration

Baldwin, Roland A. (1970)

Dean

B.S., Brigham Young University

M.A., Brigham Young University

Bjerke, R.A. (1973)

Librarian, Assistant Professor, German

B.A., University of Wisconsin-Madison

M.A., University of Wisconsin-Madison

M.A., University of Minnesota

Ph.D., University of Wisconsin-Madison

Morgan, David W. (1976)

Director, Student Services

B.S., University of Wisconsin-Milwaukee

M.S., University of Wisconsin-Milwaukee

Peters, Bruce D. (1980)

Business Manager

B.S., University of Wisconsin-Stevens Point

Pfeffer, Jane L. (1982)

Coordinator, Public Information

B.A., Regis College

Skubal, Susanne (1976)

Advisor, Student Services

B.A., University of Wisconsin-Milwaukee

Faculty

Arendt, Michael J. (1971)

Associate Professor, Music

B.M., St. Norbert College

M.M., Wichita State University

Bernstein, Robert E. (1983)

Instructor, Mathematics

B.A. Harpur College

M.S. Radford University

Corrado, Lawrence C. (1969)

Associate Professor, Physics and Astronomy

B.S., DePaul University

M.S., Arizona State University, Tempe

Ph.D., Arizona State University, Tempe

Demmon, William E. (1970)

Assistant Professor, Mathematics

B.S., South Dakota School of Mines

M.S., South Dakota School of Mines

Emmett, Paul J. (1978)

Lecturer, English

B.S., Loyola University - Chicago

M.S., Illinois Institute of Technology

Ph.D., University of Chicago

Flannery, Richard (1982)

Assistant Professor, Political Science

A.B., Syracuse University

M.A., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Graetz, Kenneth R. (1974)

Assistant Professor, Art

B.A., University of Wisconsin-Milwaukee

M.S., University of Wisconsin-Milwaukee

M.F.A., University of Wisconsin-Milwaukee

Gratz, David K. (1976)

Assistant Professor, English

B.A., Wesleyan University

M.A., Syracuse University

Ph.D., Syracuse University

Gruenbaum, Ellen (1982)

Assistant Professor, Sociology/

Anthropology

A.B., Stanford University

M.A., University of Connecticut

Ph. D., University of Connecticut

Hallinan, Patricia (1979)

Lecturer, Economics

B.A., University of Illinois

M.A., University of Wisconsin-Milwaukee

Hart, Charles (1982)

Associate Professor, Biology

B.S., University of Wisconsin-Eau Claire

M.S., University of Iowa

Ph.D., University of Iowa

Helgeland, Catherine (1980)

Lecturer, Geography

B.S., University of Wisconsin-Madison

M.S., University of Wisconsin-Madison

Jarosch, Richard (1981)

Assistant Professor, Chemistry

B.S., University of Wisconsin-Eau Claire

M.S., University of Iowa

Johnson, Jay (1985)

Director, Athletics

Lecturer, Physical Education

B.S., University of Wisconsin-LaCrosse

M.S., University of Kansas

Knauf, Kenneth (1985)

Assistant Professor, Business

B.B.A., UW-Madison

M.M.S., University of Arkansas

Kuznacic, Carol J. (1984)

Lecturer, Foreign Languages

A.A., University of Wisconsin Center-Sheboygan

B.A., University of Wisconsin-Green Bay

M.A., Pennsylvania State University

Maes, Michael (1977)

Lecturer, Engineering

B.S.M.E., University of Wisconsin-Madison

Miller, Sylvia S. (1981)

Lecturer, music

B.M.E., Indiana University



Nibbelink, Herman W. (1972)

Associate Professor, English

B.A., Calvin College

M.A., University of Iowa

Penny, Susan B. (1983)

Lecturer, Communication Arts

B.A., University of Wisconsin-Green Bay

M.A., University of Minnesota

Purchatzke, Leroy A. (1967)

Associate Professor, Chemistry

B.S., University of Wisconsin-Madison

M.S., University of Wisconsin-Madison

Schuh, Martha (1982)

Instructor, Math

A.B., Oberlin College

M.A., University of Illinois

Semmes, David H. (1966)

Associate Professor, Communication Arts

B.S., University of Wisconsin-Madison

M.A., University of Wisconsin-Madison

Singh, Bhagat (1970)

Professor, Mathematics and Computer Science

B.Sc., Agra University (India)

M.Sc., Agra University (India)

M.S., University of Illinois

Ph.D., University of Illinois

Sontag, Charles R. (1967)

Professor, Biological Sciences

B.S., Carroll College

M.S., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Swanson, Helen (1985)

Assistant Professor, Psychology

B.A., Youngstown State University

M.S., Ohio Unhiversity

Ph.D., Ohio University

Tepley, Wesley (1967)

Lecturer, Music

B.M., Lawrence University

M.M., Eastman School of Music

Trask, Kerry A. (1972)

Associate Professor, History and Political Science

B.A., Hamline University

M.A., University of Minnesota

Ph.D., University of Minnesota

White, V. Alan (1981)

Assistant Professor, Philosophy

A.B., Northwest Nazarene College

M.A., University of Tennessee

Ph.D., University of Tennessee

University of Wisconsin Center— Marathon County

518 South 7th Avenue, Wausau, WI 54401, (715)845-9602

Location: The University of Wisconsin Center-Marathon County has a six and a half acre campus in Wausau adjacent to Marathon Park. Wausau is in north central Wisconsin, about 140 miles north of Madison.

Student body: In fall 1984, 1,201 students were enrolled, nearly equal numbers of men and women. There is a mix of full-time and part-time students. Student age varies, and 28 percent of the student body is over age 25. The Center draws most of its students from Marathon, Lincoln, Shawano, Langlade and Clark counties.

Facilities: UWC-Marathon County has a residence hall which houses 152 students. Other buildings include a science hall with extensive lab facilities; an art studio; a fieldhouse with racketball court, weight room, swimming pool and gymnasium, and a classroom-office complex with fine arts room, library, student center, bookstore, planetarium, greenhouse and cafeteria.

Special programs: *Academic*—evening courses, honors program for academic achievers; *Community Outreach Program*; *Scholarship*—scholarship program sponsored by UW-Marathon Foundation; *Lecture and Arts*—University Series including lectures, films, music, theater and dance, community theater, band, orchestra and choral groups; *Extracurricular*—newspaper, varsity and intramural sports.

Course offerings

The following courses may be offered at least once during a two-year period. Variations in the courses offered each semester are due to the availability of faculty,

student demand, resources and curriculum changes. Check the Center's class schedule, or timetable, for specific course offerings.

Anthropology 100, 102, 105, 200, 204, 222, 291, 293, 299, 302, 308, 314, 322, 341, 351, 353, 400, 450

Art 101, 102, 111, 112, 113, 121, 141, 161, 187, 188, 201, 202, 211, 223, 224, 229, 231, 232, 241, 243, 245, 247, 253, 254, 259, 269

Astronomy 100, 200

Biological Sciences

Bacteriology 101, 299

Biology 250

Botany 100, 130, 291, 299

Physiology 235

Zoology 101, 234, 291, 299

Business & Economics

Business 201, 202, 204, 243

Economics 101, 203, 204, 230, 243

Chemistry 125, 145, 155, 203, 211, 214, 244, 299, 343, 352, 363

Communication Arts 100, 101, 103, 130, 131, 150, 201, 203, 204, 220, 221, 348,

Computer Science 110, 120, 130, 211, 213, 243, 252, 253, 260, 270, 291, 299

Education 100, 200, 300

English & Literature 101, 102, 201, 202, 203, 204, 250, 251, 253, 255, 260, 261, 262, 263, 266, 267, 272, 274, 276, 280, 290, 351, 355, 370, 380

Engineering

Graphics 102, 113

Mechanics 201, 202

Foreign Language

French 101, 102, 201, 202, 221, 222, 223, 225, 226, 275, 276, 291

German 101, 102, 201, 202, 221, 222, 225, 226, 275, 276

Spanish 101, 102, 201, 202, 221, 222, 225, 226, 275, 291

Geography 110, 123, 124, 125, 342

Geology 100, 101

History 101, 102, 118, 119, 120, 126, 127, 198, 211, 219, 254, 256, 257, 285, 286, 299

Interdisciplinary Studies 105

Lecture 101

Mathematics 105, 110, 113, 117, 124, 130, 132, 211, 212, 221, 222, 223, 240, 299, 320

Music 070, 071, 072, 073, 074, 170, 171, 172, 173, 174, 271, 272, 275, 276, 280

Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 101, 102, 103, 106, 201, 202, 211, 220, 226, 241, 242, 248, 253, 258, 291, 299

Physical Education 001, 005, 006, 008, 012, 016, 018, 019, 024, 027, 030, 031, 041, 042, 055, 056, 058, 101, 102, 105, 107, 108, 110, 113, 115, 116, 118, 122, 123, 204, 206, 211, 213, 291, 299

Physics 107, 141, 142, 201, 202

Political Science 101, 104, 106, 175, 206, 220, 223, 275, 299, 308, 324

Psychology 201, 202, 203, 208, 210, 224, 225, 507, 509, 530, 560

Sociology 101, 120, 130, 131, 134, 138, 170, 291, 299, 357, 530

Administration

Portch, Stephen R. (1976)

Dean

B.A., University of Reading, England

M.A., The Pennsylvania State University

Ph.D., The Pennsylvania State University

Koch, James (1970)

Business Manager

B.A., University of Wisconsin

M.B.A., University of Wisconsin-Madison

Nash, Jordan (1970)

Director, Student Services

B.S., University of Wisconsin-Platteville

M.S., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Rhoades, Katherine A. (1984)

Coordinator, Continuing Education

B.A., University of Nebraska

M.S., University of Wisconsin-Stevens Point

Runkel, John (1974)

Counselor/Advisor, Student Services

B.A., Lawrence University

Smith, Kay (1978)

Coordinator, Public Information

Counselor, Student Services

B.S., University of Wisconsin-Madison

M.S., University of Wisconsin-Madison

Stoddard, Susan H. (1983)
Associate Librarian
B.A., University of Wisconsin-Madison
M.L.S., University of Wisconsin-Madison
Streibig, Judy (1972)
Librarian
B.A., Eastern Michigan University
M.A., Western Michigan University

Faculty

Barrington, Byron (1960)
Professor, Psychology
M.S., University of Chicago
Ph.D., University of Chicago
Borger, Gary (1971)
Associate Professor, Biological Sciences
M.S., Pennsylvania State
Ph.D., University of Wisconsin-Madison
Burger, Angela (1965)
Professor, Political Science
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison
Case, Joel (1982)
Instructor, Chemistry
B.S., University of Minnesota
Ph.D., Kansas State University
Chen, John (1977)
Lecturer, Music
B.M., Stetson University
M.M., Southern Illinois University
Chevalier, Joseph (1966)
Associate Professor, French
B.A., Southern University
M.A., University of Wisconsin-Madison
Crabtree, Koby (1966)
Professor, Biological Sciences
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison
Dahle, Richard (1963)
Associate Professor, Art
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Estermann, Joseph (1985)
Instructor, Mathematics
B.S., University of Lowell, Maine
Fitzgerald, John (1963)
Associate Professor, Music
B.M., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Fleming, Thomas (1978)
Assistant Professor, Art
B.F.A., Pennsylvania State
M.F.A., University of Minnesota
Forde, John (1967)
Associate Professor, Anthropology
B.S., Lawrence University
M.S., University of Oregon

Gillett, Philip (1953)
Professor, Mathematics
B.A., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison
Gonzalez, Frank (1981)
Assistant Professor, Engineering and Mathematics
M.S., University of Florida
Ph.D., University of Florida
Grahls, Francis Lincoln (1975)
Assistant Professor, Sociology
B.A., Hofstra University
M.A., Columbia University
Grahls, Joan (1976)
Lecturer, Mathematics
B.S., University of Wisconsin-Stevens Point
Grdinic, Marcel (1966)
Professor, Chemistry
M.S., University of Zagreb (Yugoslavia)
Ph.D., University of Zagreb (Yugoslavia)
Grinde, Harlan (1969)
Assistant Professor, History
B.A., St. Olaf
M.A., University of Wisconsin-Madison
Hendricks, Bryan (1973)
Associate Professor, Psychology
M.A., University of Illinois
Ph.D., University of Illinois
Hessert, Nancy (1975)
Instructor, Spanish
B.S., Northwestern University
M.A., University of Wisconsin-Madison
Hosler, Douglas (1972)
Associate Professor, Philosophy
M.A., Yale
Ph.D., University of Pittsburgh
Hosler, M. Bellamy (1972)
Associate Professor, Music
M.F.A., Carnegie Institute
Ph.D., University of Wisconsin-Madison
Jacoby, Henry (1981)
Lecturer, Philosophy
B.A., Ohio State University
M.A., Ohio State University
Ph.D., University of Southern California
Karkar, Yaqub (1966)
Professor, Economics
M.A., University of California-Berkeley
Ph.D., University of Indiana
Kaufman, Frederick (1985)
Assistant Professor, Philosophy
B.S., University of Miami
B.A., University of Miami
M.A., University of Virginia
Ph.D., University of Virginia
Kelly, John (1963)
Associate Professor, Chemistry
B.S., Bethany Nazarene
M.S., University of Mississippi
Knutson-Younger, Judy (1981)
Lecturer, Physical Education
B.S., Mankato State University
M.A., Mankato State University

Lorence, James (1966)
Professor, History
M.S., University of Wisconsin-Milwaukee
Ph.D., University of Wisconsin-Madison
McBee, Keith L. (1983)
Assistant Professor, Business
B.S., University of West Virginia
M.S., University of West Virginia
McDonald, Marvin J. (1984)
Assistant Professor, Psychology
B.A., St. John's University
M.S., Purdue University
Mergendahl, Roger (1959)
Professor, English
B.A., Bowdoin University
M.A., Boston University
Milani, Hamid (1982)
Instructor, Economics and Mathematics
B.A., Tehran University
M.A., Western Illinois University
Mohebbi, Mehdi (1981)
Assistant Professor, Computer Science
B.S., Tehran University
M.S., George Washington University
Musolf, Gene (1958)
Associate Professor, Geography and Geology
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison
Nakamaru, Robert (1982)
Lecturer, Sociology
B.A., Western Illinois University
B.A., Sangamon State University
M.S., University of Wisconsin-Madison
Okroy, Peter (1970)
Associate Professor, English
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison
Olson, Larry (1962)
Assistant Professor, Mathematics
B.S., University of Wisconsin-LaCrosse
M.S., University of Wisconsin-Madison
Osypowski, Edward (1971)
Associate Professor, Physics
B.S., University of Wisconsin-Milwaukee
Ph.D., University of Wisconsin-Madison
Pierce, Frank (1964)
Associate Professor, German
A.B., Franklin & Marshall
M.A., University of Colorado
Podrasky, Joseph (1969)
Assistant Professor, English
A.B., University of St. Louis
M.A., University of St. Louis
Quinn, Robert (1963)
Associate Professor, Communication Arts
M.F.A., Chicago Art Institute, Goodman School
Ph.D., University of Wisconsin-Madison



Ruud, Judy W. (1984)

Lecturer, English

B.A., University of Wisconsin-Parkside

M.A., University of Wisconsin-Milwaukee

Ph.D., University of Wisconsin-Milwaukee

Salli, Arne (1964)

Associate Professor, Biological Sciences

M.S., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Schmitz, William (1959)

Professor, Biological Sciences

M.S., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Stremlau, Duane (1967)

Associate Professor, Physical Education

M.S., University of Colorado

Ph.D., University of Wisconsin-Madison

Schumann, David L. (1984)

Assistant Professor, Mathematics/Computer Science

B.S., University of Wisconsin-Madison

M.S., University of Wisconsin-Madison

Siebers, James P. (1982)

Instructor, Mathematic/Computer Science

B.S. University of Wisconsin-Oshkosh

Ware, Linda (1964)

Associate Professor, English

B.A., Ohio Wesleyan

M.S., University of Wisconsin-Madison

Welton, Russell (1961)

Associate Professor, Physics

B.S., University of Wisconsin-Madison

M.S., University of Wisconsin-Madison

Whitney, John (1969)

Associate Professor, English

B.A., University of Michigan

M.A., University of Michigan

Williams, Arthur C (1984)

Lecturer, Communication Arts

B.A., University of Maryland

M.A., University of Maryland

Ph.D., The Ohio State University

Wood, John (1982)

Assistant Professor, Mathematics

M.A., University of Minnesota

Ph.D., University of Minnesota

University of Wisconsin Center— Marinette County

Bay Shore, Marinette, WI 54143, (715)735-7477

Location: The 36-acre University of Wisconsin Center-Marinette County campus is located on the shores of Lake Michigan's Green Bay. Downtown Marinette as well as the State of Michigan are both within a five-minute drive of campus.

Student body: In fall 1984, 455 students were enrolled, 195 men and 260 women. Students attend the campus on a full-time and part-time basis. Student ages varies over a broad range with about one third of the student body being over age 25.

Over a third of the students are Michigan residents, who, because of a reciprocal tuition agreement, pay Wisconsin resident tuition rates.

Facilities: The hub of student life is the student union-lounge-cafeteria wing of the administration-science building. A second wing contains a day care center and classrooms. Art facilities include a 394-seat theatre, gallery, visual arts studios and photographic laboratories. The library overlooks the bay. Completing the four-building complex is a field house.

Special programs: *Academic*—Evening Associate Degree Program, college skills laboratory, off-campus courses, interdisciplinary computer assisted instructional programs, open computer laboratory, early childhood learning center for pre-school age. *Scholarship*—Talentship Grants based on academic potential and leadership sponsored by UW-Marinette Foundation; *Lectures and Arts*—Theatre on the Bay productions (including summer series), faculty lecture series, endowed faculty development fund; *Extra-curricular*—Phi Theta Kappa-national junior college honorary, intramural and varsity sports, returning adult students' club, ski club, newspaper, winter carnival.

Course offerings

The following courses may be offered at least once during a two-year period. Variations in the courses offered each semester are due to the availability of faculty, student demand, resources and curriculum changes. Check the Center's class schedule, or timetable, for specific course offerings.

Art 101, 102, 111, 112, 121, 131, 161, 181, 183, 201, 219, 221, 223, 245, 269

Astronomy 100

Biological Sciences

Bacteriology 101

Botany 130, 240

Physiology 235

Zoology 101, 103, 105, 234

Business & Economics

Business 101, 110, 194, 201, 202, 204, 210, 243

Economics 101, 203, 204, 230, 243

Chemistry 125, 145, 155, 203, 211, 214, 244, 343, 352, 363

Communication Arts 100, 101, 103, 130, 131, 150, 232, 234, 298, 299,

Computer Science 110, 210, 211, 213, 243, 260, 270

Engineering

Mechanics 201, 202

English & Literature 101, 102, 250, 253, 263, 264, 272, 276, 280, 370, 380

Geography 101, 110

History 101, 102, 119, 120, 255, 280, 297, 299

Mathematics 102, 105, 110, 113, 117, 211, 221, 222, 223, 271, 299

Music 072, 075, 107, 170, 171, 173, 273, 295

Applied: 001, 002, piano, voice, and instrumental music consult; Music

Department

Philosophy 101, 103, 202, 211, 226, 291, 299

Physical Education 005, 006, 007, 009, 012, 016, 018, 021, 027, 028, 055, 056, 058, 102, 109, 110, 115, 116, 118, 205, 206, 213

Physics 201, 202

Political Science 101, 104

Psychology 201, 202, 205, 509, 530, 560, 561, 562

Sociology 101, 120, 125, 130, 131, 134, 138, 291, 299, 530

Spanish 101, 102

Administration

Schmidtke, William A. (1965)

Dean

B.A., Lawrence University

M.S., University of Wisconsin-Madison

Bilek, Mary Jean (1967)

Coordinator, Public Information

Lecturer, Journalism

B.A., University of Wisconsin-Madison

Blazer, Mary S. (1966)

Coordinator, Continuing Education

B.S., University of Wisconsin-Oshkosh

Faculty

Atwood, Daniel M. (1977)

Assistant Professor, English

B.A., University of Wisconsin-Madison

M.A., George Washington University

Ph.D., Ohio State University

Bedrosian, Allen J. (1969)

Professor, Chemistry

B.S., University of Massachusetts

Ph.D., Rutgers State University

Berry, James E. (1969)

Associate Professor, Economics

B.S., Murray State University

M.S., University of Kentucky

Ph.D., University of Kentucky

Espenscheid, Lyle L. (1967)

Assistant Professor, Math/Engineering

Graphics

B.A., Wheaton College

M.A., University of Northern Iowa

Giebler, David J. (1981)

Assistant Professor, Music

B.M., Fort Hayes State University

M.M., University of Wisconsin-Madison

Hemr, Constance L. (1978)

Assistant Professor, Mathematics

B.A., Eastern Michigan University

M.A., Eastern Michigan University



Hieser, Rex A. (1978)
Associate Professor, Psychology
B.S., Michigan State University
M.A., University of Iowa
Ph.D., University of Iowa
Johnson, Wendel J. (1969)
Associate Professor, Biology
B.S., Michigan State University
M.S., Michigan State University
Ph.D., Purdue University
Kessel, David (1985)
Assistant Professor, Political Science/
Sociology
B.A., Kent State
M.A., Mississippi College
Ph.D., Louisiana State University

Kowalski, Dorothy (1983)
Assistant Professor, Physical Education
B.S., Ithaca College
M.A., University of Wisconsin-LaCrosse
Krog, Carl E. (1966)
Associate Professor, History/Geography
B.A., University of Chicago
M.A., University of Chicago
Ph.D., University of Wisconsin-Madison
LaMalfa, James T. (1969)
Associate Professor, Art
B.S., University of Wisconsin-Madison
M.A., University of Wisconsin-Madison
M.F.A., University of Wisconsin-Madison
Moster, Mark (1985)
Assistant Professor, Business
B.A., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Richards, Charles W. (1969)
Associate Professor, Chemistry
B.S., University of Wisconsin-Stevens Point
M.S., University of Oklahoma
Williams, Herbert L. (1966)
Associate Professor, Speech/Theater
B.A., Mount Union College
M.S., University of Wisconsin-Madison
Yarbrough, Jane H. (1983)
Assistant Professor, English/Philosophy
B.A., University of Florida
M.A., University of Florida
Ph.D., University of Florida

University of Wisconsin Center— Marshfield/Wood County

2000 West 5th Street, Marshfield, WI 54449, (715)387-1147

Location: The University of Wisconsin Center-Marshfield/Wood County is located on 96 acres in the city of Marshfield.

Student body: In fall 1984, 655 student were enrolled, 197 men and 358 women. Students attend on both a full-time and part-time basis. The age range of students varies, and about 30 percent are over age 25.

Facilities: Major buildings at the Center include the W.W. Clark Administration Building, Aldo Leopold Science Building, A.G. Felker Student Center, Fine Arts Building complex with the Learning Resource Center, Lecture-Performance Hall, music rehearsal rooms and art studios, the Gymnasium and University Apartments for student housing.

Outdoor recreational facilities include lighted tennis courts, soccer fields, football field, baseball diamond and golf green, and the university arboretum.

Special programs: *Academic*—Evening Associate Degree Program, Continuing Education Program offering credit and non-credit courses, cooperative academic program with St. Joseph's Hospital School of Nursing, cooperative program in respiratory therapy with Mid-State Technical Institute; *Scholarship*—Talentship scholarships based on academic potential and leadership sponsored by UW-Marshfield Foundation; *Lectures and Arts*—community theater, orchestra and choral groups, fine arts programs consisting of 12 events; *Extracurricular*—intramural and varsity sports, newspaper, Outing Club, Business Club, Intervarsity Fellowship Club.

Course offerings

The following courses may be offered at least once during a two-year period. Variations in the courses offered each semester are due to the availability of faculty, student demand, resources and curriculum changes. Check the Center's class schedule, or timetable, for specific course offerings.

Art 101, 102, 103, 111, 112, 121, 141, 151, 187, 188
Astronomy 100, 200
Biological Sciences
 Bacteriology 101, 299
 Biology 109
 Botany 130, 299
 Physiology 202, 203
 Zoology 101, 155, 291, 299
Business & Economics
 Business 101, 194, 201, 202, 204, 210
 Economics 203, 204
Chemistry 100, 124, 125, 145, 155, 203, 211, 214, 272, 299, 343, 352, 363
Communication Arts 100, 101, 103, 110, 130, 131, 150, 201, 202, 203, 230, 232, 234, 298, 299, 348, 349
Computer Science 100, 110, 130, 211, 213, 243, 252, 260
Engineering
 Mechanics 201, 202
English & Literature 101, 102, 201, 202, 250, 260, 261, 262, 263, 270, 370
Foreign Language
 French 101, 102, 215, 225, 201, 202
 Spanish 101, 102, 201, 202
Geography 101, 115, 123, 124, 130, 299, 341, 342, 350
 Geology 101
History 101, 102, 119, 120
Interdisciplinary Studies 294, 295
Lecture Forum C101, 102
Mathematics 091, 105, 110, 113, 117, 124, 211, 221, 222, 223, 299, 320, 262
Music 070, 071, 072, 074, 075, 107, 170, 171, 172, 173, 174, 271, 272, 275, 276, 295, 299
 Applied: piano, voice, and instrumental music; consult Music Department
Philosophy 101, 211, 241, 242, 248, 291, 299

Physical Education 005, 014, 017, 018, 021, 027, 028, 041, 042, 043, 058, 102, 113, 115, 116, 117, 121, 122, 123, 203, 206, 213
Physics 110, 141, 142, 201, 202
Political Science 101, 104
Psychology 201, 202, 205, 250, 507, 560,
Sociology 101, 120, 125, 130, 138, 160, 170, 250, 291, 299

Administration

Koopman, Norbert (1964)
 Dean
 B.S., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison
Allmandinger, Barbara (1981)
 Coordinator, Continuing Education
 Ft. Wayne Business School
Bentzler, Geogiane (1965)
 Librarian
 B.S., University of Wisconsin-Oshkosh
 M.A., George Peabody College for Teachers
Blezien, Paul (1980)
 Counselor/Advisor, Student Services
 B.S., University of Wisconsin-Stevens Point
 M.A., Ball State University
Hendler, Peter (1968)
 Business Manager
 B.S., University of Wisconsin-Stevens Point
Neumann, Jack (1973)
 Specialist, Media Services
 A.S., University of Wisconsin Center-Marshfield/Wood County
 A.S., North Central Technical Institute
Scidmore, Herbert (1966)
 Director, Student Services
 B.S., University of Wisconsin-River Falls
 M.S., University of Wisconsin-Madison
Sokolowski, Neil (1971)
 Coordinator, Public Information
 Lecturer, Communication Arts
 B.S., University of Wisconsin-Milwaukee
 M.A., Marquette University

Faculty

Alexander, James (1964)

Professor, English
B.A., Brooklyn College
M.A., Notre Dame University
M.A., University of Minnesota

Almquist, Bradley L. (1984)

Lecturer, Music
B.S., University of North Dakota
M.M., University of North Dakota

Biederwolf, Robert (1967)

Professor, Music
B.M., University of Wisconsin-Madison
M.M., University of Wisconsin-Madison

Bitner, Thomas (1969)

Associate Professor, Geography
B.S., University of Wisconsin-Superior
M.A., Indiana State University

Bradley, Virginia (1985)

Assistant Professor of Art
B.F.A., University of Miami
M.F.A., University of South Florida

Christensen, Richard (1966)

Assistant Professor, Mathematics
B.S., University of Wisconsin-Stevens Point
M.A., Northwestern University

Clemens, Joann (1976)

Lecturer, Mathematics
B.S., University of Wisconsin-Madison

Cooksey, Ben (1974)

Assistant Professor, Biology
B.S., Kansas State College
M.S., Kansas State College
Ph.D., Kansas State University

Danou, Constantine (1971)

Assistant Professor, Sociology
B.A., Illinois State University
M.A., Illinois State University

Frazer, Georgette (1979)

Assistant Professor, Economics
B.S., Goddard College

M.S., University of New Hampshire

M.A., University of Wisconsin-Madison

Giacobazzi, Frederic (1981)

Lecturer, English
B.A., Wayne State University
M.A., Wayne State University

Glasman, Robert Jr. (1978)

Instructor, Music
B.S., Weber State College
M.A., University of Northern Colorado



Hall, Philip (1970)

Associate Professor, Chemistry
B.A., Augustana College
M.A., University of Wisconsin-Madison

Halloran, Donal (1965)

Assistant Professor, Biology
B.S., University of Massachusetts
M.Ed., University of Massachusetts

Harrington, John (1968)

Associate Professor, Physical Education
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Lampe, Gregory P. (1983)

Instructor, Communication Arts
B.S., Slippery Rock State College
M.A., Northern Illinois University

Marty, Thomas (1967)

Associate Professor, Chemistry
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Peterson, James (1966)

Associate Professor, Physics
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Riesen, Anne-Jose (1968)

Assistant Professor, French
B.S., Universite de Lausanne, Switzerland

Rindfleisch, Gregory (1966)

Associate Professor, Communication Arts
B.A., Mankato State College
M.A., Mankato State College

Shenouda, Salah (1974)

Assistant Professor, Business/Economics
B.S., Alexandria University, Egypt
M.A., Eastern Michigan University
M.A., Eastern Michigan University
Ed.S., Eastern Michigan University

Starrett, Raymond (1976)

Assistant Professor, Psychology
B.A., California State University-Long Beach

M.A., Ohio State University

Ph.D., Ohio State University

Stewart, Betty (1985)

Assistant Professor, Mathematics/Computer Science

B.A., Robert Wesleyan College

M.A., California University of Pennsylvania

Waddell, Eloise (1981)

Lecturer, Biology
B.S., University of Wake Forest
M.S., University of Wisconsin-Oshkosh

University of Wisconsin Center— Richland

Highway 14 West, Richland Center, Wisconsin 53581, (608)647-6186

Location: The University of Wisconsin Center-Richland campus is located in the southwestern Wisconsin city of Richland Center, midway between LaCrosse and Madison, on U.S. Highway 14.

Student body: In fall 1984, 244 students were enrolled, 115 men and 129 women. There is a mix of full-time and part-time students. There also is a mix of ages in the student body, with more than 30 percent of the students over age 25.

The campus draws students from Richland, Sauk, Grant, Iowa, Vernon and Juneau counties.

Facilities: The 135-acre campus has six main buildings including the Miller Memorial Library, Wallace Student Center, General Classroom Building, Science Building, the Roadrunner Gymnasium and the Administration Building.

Outdoor facilities include an athletic field, tennis and basketball courts, a demanding cross-country course and an area for winter recreational activities.

Special programs: *Academic*—Evening Associate Degree Program, tutoring services, study skills workshop, shared facilities with UW-Extension of Richland County, lecture series for senior citizens; *Scholarship*—program sponsored by the UWC-Richland County Foundation; *Lectures and Arts*—campus-community theater, campus-community fine arts program in art, music, drama; *Extracurricular*—varsity-intramural sports, cross-country ski course, newspaper, literary magazine, adult learners support group, Springfest.

Course offerings

The following courses may be offered at least once during a two-year period. Vari-

ations in the courses offered each semester are due to the availability of faculty, student demand, resources and curriculum changes. Check the Center's class schedule, or timetable, for specific course offerings.

Art 101, 102, 111, 112, 141, 161, 181, 183, 193

Astronomy 100

Biological Sciences

Bacteriology 101

Biology 109, 160, 250

Botany 130

Forestry 120

Natural Resources 170

Physiology 104, 235

Zoology 101, 140, 234

Business & Economics

Business 101, 110, 201, 202, 210, 243

Economics 101, 203, 204, 243

Chemistry 125, 145, 155, 244, 343

Communication Arts 100, 101, 103, 131

Computer Science 110, 211, 213

Education 100, 200, 251, 283, 300, 330

Engineering

Graphics 102, 113

Mechanics 201, 202

English & Literature 101, 102, 250, 260, 261, 262, 263, 280, 370, 380

Foreign Language

Spanish 101, 102

Geography 110, 120, 124, 341

Geology 101, 102

History 101, 102, 105, 106, 203, 213, 290, 293, 299

Lecture 102, 103

Mathematics 081, 091, 105, 110, 113, 117, 221, 222, 223, 232, 262, 271, 299

Music 071, 072, 075, 130, 136, 170, 171, 172, 173, 174, 295, 299

Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 101, 211, 220, 241, 242, 291, 299

Physical Education 002, 003, 005, 006, 016, 017, 019, 102, 104, 115, 116, 118, 204, 205, 206, 209, 210, 211, 213, 216

Physics 201, 202

Political Science 101, 104

Psychology 201, 203, 205, 507, 530, 560

Sociology 101, 120, 130, 134, 138, 160

—In addition, Independent Study Courses (291 & 299 numbers) are offered in most subject areas.

Administration

Oates, Thomas (1985)

Dean

B.A., St. Louis University

M.S., St. Louis University

Ph.D., St. Louis University

Poole, John D. (1971)

Director, Student Services

Coordinator, Public Information

B.S., University of Wisconsin-Platteville

Walsh, Phyllis A. (1974)

Librarian

B.A., Milton College

M.A., University of Wisconsin-Madison

Wentz, Barbara J. (1969)

Business Manager

A.S., University of Wisconsin Center-Richland

Faculty

Aagaard, James K. (1976)

Assistant Professor, Music

B.A., St. Olaf College

M.A., University of Northern Iowa

Albrecht, John F. (1976)

Assistant Professor, Chemistry

B.S., Arkansas State College

B.D., Austin Presbyterian Theological Seminary

M.S., Tulane University

Birkett, Margaret Jean (1968)

Associate Professor, English

B.S., University of Wisconsin-Madison

M.A., University of Wisconsin-Madison

Blackmore, Floyd H. (1969)

Associate Professor, Biological Sciences

B.S., University of Illinois-Urbana

Ph.D., University of Illinois-Urbana

Bower, Jerry L. (1967)
Associate Professor, History
B.S., University of Wisconsin-Stevens Point
M.A., Michigan State University
Ph.D., Michigan State University

Bugaji, Albert M. (1984)
Assistant Professor, Psychology/Education
B.S., Wheeling College
M.S., Purdue University
Ph.D., Purdue University

Calnin, Richard (1983)
Lecturer, Foreign Languages
B.S., St. Francis Seminary
B.A., National University of Mexico
M.A., University of Wisconsin-Madison

Cavanaugh, Clifton C. (1979)
Lecturer, Physics/Computer Science
B.S., Morningside College
M.S., Ohio State University

Deckert, Garrett A. (1967)
Associate Professor, Geography/Geology
B.S., University of Wisconsin-LaCrosse
M.A.T., Indiana University

Fellows, Patricia (1980)
Assistant Professor, Physical Education/
Athletics
B.S., Michigan State University
M.S., Purdue University

Griffith, Dan R. (1979)
Assistant Professor, Psychology &
Education
B.A., Wabash College
M.A., Ohio State University
Ph.D., Ohio State University

Hall, William W. (1968)
Assistant Professor, Mathematics
B.S., U.S. Military Academy-West Point
M.A., University of Illinois
M.S., University of Illinois

Haney, Emil B. (1979)
Associate Professor, Business/Economics
B.S., Ohio State University
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Haney, Wava (1979)
Lecturer, Sociology
B.S., Ohio State University
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Hirschy, Robert A. (1967)
Associate Professor, Biological Sciences
B.S., Wheaton College
M.S., University of Wisconsin-Madison

Kavaloski, Vincent (1981)
Lecturer, Philosophy
B.A., St. Thomas College
Ph.D., University of Chicago



Kohn, Coy A. (1977)
Lecturer, Mathematics
B.S., University of Wisconsin-LaCrosse
M.S., University of Wisconsin-LaCrosse

Lines-Browning, Marjorie K. (1984)
Assistant Professor, Mathematics
B.S., University of Washington
M.A., University of Washington

Tyndall, Howard (1979)
Lecturer, Engineering
B.S.M.E., Marquette University

Voelker, Paul (1972)
Associate Professor, English
B.S., Purdue University
M.A., Purdue University
Ph.D., University of Wisconsin-Madison

University of Wisconsin Center— Rock County

2909 Kellogg Avenue, Janesville, WI 53545, (608)755-2823

Location: The University of Wisconsin Center-Rock County is located in Janesville, 40 miles south of Madison and 80 miles southwest of Milwaukee.

Student body: In fall 1984, 987 students enrolled, 445 men and 542 women. There is a mix of full-time and part-time students. There also is a mix of ages in the student body, with about 45 percent of the students over age 25.

Facilities: The 50-acre commuter campus includes Smith Hall, the administration building and student center; Andrews Hall, a large classroom building housing the science laboratories and the 65,000 volume library, and the Cultural Center with its 350-seat theater, a gymnasium, and the art, music and drama departments.

Special programs: *Academic*—Evening Associate Degree Program, Skills Development Center including tutoring, college orientation workshop for pre-college students or interested adults, bachelor's and master's degrees in business in co-operation with UW-Extension and UW-Whitewater, extensive film library, summer music clinic, College for Kids; *Scholarships*—varied scholarships; *Lecture and Arts*—Annual Madrigal Dinner, community band, jazz groups, lecture and fine arts series, film series; *Extracurricular*—special support group for adult students, varsity and intramural sports, newspaper, career interest groups.

Course offerings

The following courses may be offered at least once during a two-year period. Variations in the courses offered each semester are due to the availability of faculty, student demand, resources and curricu-

lum changes. Check the Center's class schedule, or timetable, for specific course offerings.

Anthropology 100, 105, 200
Art 101, 102, 111, 112, 121, 141, 187, 188, 201, 202, 223, 224, 229, 241, 243, 247, 249
Astronomy 100
Biological Sciences
Bacteriology 101
Biology 160
Botany 130
Physiology 235
Zoology 101, 234
Business & Economics
Business 201, 202, 204, 243
Economics 101, 203, 204, 243
Chemistry 100, 125, 145, 155, 343, 352, 363
Communication Arts 100, 101, 103, 130, 131, 150, 230, 232, 234
Computer Science 110, 211, 213
Engineering
General Engineering 100
Mechanics 201, 202
English & Literature 101, 102, 250, 263, 370, 380
Foreign Language
French 101, 102, 118, 119, 201, 202, 221, 222, 223, 225, 226, 275, 276
Spanish 101, 102, 118, 201, 202, 225
Lecture 101
Geography 101, 110, 123, 124
History 101, 102, 119, 120, 123, 124, 126, 127, 183, 198, 222, 293
LEA 100, 101, 102, 104, 105
Mathematics 081, 091, 105, 110, 113, 124, 211, 212, 220, 221, 222, 223, 240, 299, 320
Music 071, 072, 074, 075, 131, 170, 171, 172, 173, 174, 271, 272, 273, 275, 276
Applied: piano, voice, and instrumental music; consult Music Department
Philosophy 101, 202, 211, 226, 241, 242, 248, 253, 291, 299
Physical Education 002, 016, 018, 027, 032, 123, 213
Physics 141, 142, 201, 202
Political Science 101, 104, 106, 175, 185, 222
Psychology 201, 202, 205, 509, 530, 560
Sociology 101, 120, 130, 131, 160, 530
Women's Studies 202, 298, 299

Administration

Walterman, Thomas W. (1973)
Dean

B.A., Augustana College
M.A., University of Iowa
Ph.D., Washington University

Brandeen, Carolyn (1984)
Coordinator, Continuing Education

Buchen, David (1979)
Specialist, Media Services
B.A., University of Wisconsin-Whitewater
M.E.P.D., University of Wisconsin-Whitewater

Derby, Douglas W. (1974)
Business Manager
B.A., University of Wisconsin-Madison
M.A., University of Wisconsin-Madison

Heiber, Debra A. (1981)
Coordinator, Student Services

B.A., Creighton University
M.A., Marquette University
Horn, Robert M. (1967)
Counselor, Student Services
B.S., University of Wisconsin-Madison
M.S., Pennsylvania State University

Lenox, Gary J. (1967)
Librarian

B.A., University of Minnesota
M.A., University of Wisconsin-Madison
Pillard, Diane (1984)

Specialist, Public Information
B.S., UW-Whitewater

Rubin, Larry (1979)
Director, Student Services
B.A., University of Wisconsin-Madison
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Faculty

Allen, Duane L. (1969)
Assistant Professor, Philosophy
B.A., University of Wisconsin-Madison
M.A., University of Wisconsin-Madison
Amundson, Delyle (1969)
Assistant Professor, Mathematics
B.S., University of Wisconsin-Platteville
M.S., University of Wyoming

Berke, Richard E. (1968)
 Professor, English
 B.A., University of Illinois-Urbana
 M.A., University of Wisconsin-Madison

Bliss, Mitchell (1978)
 Lecturer, Journalism
 B.A., Alfred University

Borgeson, Victor (1982)
 Assistant Professor, Communication Arts
 B.S., Winona State University
 M.A., University of Northern Colorado
 M.F.A., University of Houston

Brandes, Stuart (1967)
 Professor, History
 B.S., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Christianson, Lars (1969)
 Associate Professor, English
 B.A., Augustana College
 M.A., University of Wisconsin-Madison

Fiorina, Frank J. (1966)
 Assistant Professor, French
 B.S.Ed., Southern Illinois University
 M.A., University of Wisconsin-Madison

Goding, Lloyd A. (1970)
 Associate Professor, Chemistry
 B.S., University of New Mexico
 M.S., University of New Mexico
 Ph.D., University of New Mexico

Groth, Philip G. (1982)
 Assistant Professor, Sociology
 B.S., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Hardin, Nancy Shields (1967)
 Associate Professor, English
 B.A., University of Texas
 M.A., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Holt, Robert C. (1968)
 Associate Professor, Music
 B.S., University of Wisconsin-Milwaukee
 M.S., University of Wisconsin-Madison

Hornbostel, Julia (1966)
 Associate Professor, English
 B.A., Florida State University
 M.A., Indiana University

Kinnaman, Theodore D. (1966)
 Professor, Music
 B.M.Ed., Northwestern University
 M.M., Northwestern University

Liss, Frederick (1982)
 Associate Professor, Mathematics
 B.A., University of Notre Dame
 M.A., University of Wisconsin-Madison

Luthar, Rajindar S. (1967)
 Assistant Professor, Mathematics
 B.A., Murray College
 M.A., University of Illinois-Urbana

Mory, Peter R. (1967)
 Associate Professor, Physical Education
 B.S., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison

Murray, David G. (1969)
 Associate Professor, Physics
 B.A., Carleton College
 M.S., University of Wisconsin-Madison

Reinhart, Linda C. (1982)
 Assistant Professor, Psychology
 B.A., College of St. Catherine
 M.A., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Rice, Marion M. (1966)
 Associate Professor, Biology
 B.A., De Pauw University
 M.A., De Pauw University
 Ph.D., University of Wisconsin-Madison

Rust, Charles C. (1968)
 Professor, Zoology
 B.S., University of Wisconsin-Whitewater
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Schlais, Harold E. (1972)
 Assistant Professor, Mathematics
 B.S., University of Wisconsin-Oshkosh
 M.A., Arizona State University
 Ph.D., Arizona State University

Scott, Everett D. (1972)
 Assistant Professor, Art
 B.F.A., University of Utah
 M.A., University of Wisconsin-Madison
 M.F.A., University of Wisconsin-Madison

Stabb, Martin A. (1966)
 Assistant Professor, Chemistry
 B.S., Beloit College
 M.S., University of California-Berkeley

Stenstrom, Georgina (1979)
 Lecturer, Spanish
 B.A., Grinnell College
 M.A., University of Chicago

Storch, Robert D. (1969)
 Professor, History
 B.A., University of Wisconsin-Madison
 M.A., University of Wisconsin-Madison

Williams, Barbara J. (1969)
 Professor, Geography
 B.A., University of Wisconsin-Madison
 M.A., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Wimmer, Mary Alice (1967)
 Assistant Professor, Art
 B.F.A., St. Mary of the Woods College
 M.S., University of Wisconsin-Madison
 M.F.A., University of Wisconsin-Madison

Wong, Bernard (1974)
 Associate Professor, Anthropology
 B.A., Berchman's College
 M.A., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Skills development staff

Krizon, Donald L. (1983)
 Specialist, Mathematics
 Lecturer, Engineering
 B.S., South Dakota School of Engineering
 B.A., California State University
 M.S., Purdue University

Maloney, Mary Ann (1981)
 Specialist, Mathematics/Writing
 B.A., Northern Michigan University
 M.A., Northern Michigan University

Smith, Gregory L. (1984)
 Associate Director, Skills Development
 B.A., University of Wisconsin-Eau Claire
 M.A., Arizona State University



University of Wisconsin Center— Sheboygan County

One University Drive, Sheboygan, WI 53081, (414)459-3700

Location: The University of Wisconsin Center-Sheboygan County is located on a 73.5-acre site on the western edge of the city of Sheboygan.

Student body: In fall 1984, 702 students were enrolled, 338 men and 364 women. Both full-time and part-time students are enrolled. Student age varies and nearly 30 percent are over age 25.

Facilities: The campus includes a main building, learning-resources center, fine arts building with a theatre, and gymnasium. The grounds provide tennis courts, areas for field sports, and a natural terrain for cross-country track and skiing.

Special programs: *Academic*—Evening Associate Degree Program, evening academic/career counseling, tutoring, UW-Extension-Outreach program located at the Center; *Lecture and Arts*—lecture and fine arts series, community theater, film series, woodwind and jazz ensembles, campus singers; *Extracurricular*—newspaper, intramural and varsity sports, special interest groups.

Course offerings

The following courses may be offered at least once during a two-year period. Variations in the courses offered each semester are due to the availability of faculty, student demand, resources and curriculum changes. Check the Center's class schedule, or timetable, for specific course offerings.

Anthropology 100, 102, 105, 200, 202, 204, 291, 314
Art 101, 102, 103, 111, 112, 131, 141, 187, 188, 231, 253, 254, 259

Astronomy 100

Biological Sciences

Bacteriology 101
Biology 107, 250
Botany 130, 299
Physiology 202, 203
Zoology 101, 299

Business & Economics

Business 101, 110, 201, 202, 204, 210, 243,
Economics 101, 203, 204, 230, 243, 297

Chemistry 100, 125, 145, 155, 203, 211, 214, 244, 299, 343, 352, 363

Communication Arts 100, 101, 103, 130, 131, 150, 160, 201, 203, 204, 220, 221, 232, 266, 267, 268, 349

Computer Science 100, 110, 210, 211, 213, 243, 260, 270, 291, 299

Education 100, 200

Engineering

Graphics 102, 113
Mechanics 201, 202

English & Literature 101, 102, 201, 204, 250, 260, 261, 270, 272, 276, 280, 290, 351, 353, 370, 380

Foreign Language

Spanish 101, 102, 201, 202, 225, 226, 291

Geography 101, 110, 115, 120, 123, 124, 130, 277, 297, 341, 342, 349, 350

History 101, 102, 119, 120, 211, 255, 290

Mathematics 091, 102, 105, 110, 113, 124, 211, 212, 221, 222, 223, 320

Music 070, 071, 072, 074, 075, 131, 170, 171, 172, 173, 271, 272, 273, 295, 299

Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 101, 103, 106, 211, 241, 242, 248, 258, 291, 299

Physical Education 002, 005, 006, 008, 010, 016, 018, 027, 043, 123, 202, 206, 207, 211, 212, 213, 216

Physics 141, 142, 201, 202

Political Science 101, 104, 106, 201, 220, 222, 223, 275

Psychology 201, 202, 203, 208, 210, 224, 225, 507, 560

Sociology 101, 120, 130, 134, 170, 530

Administration

Losty, Barbara (1985)

Dean

B.A., Wellesley College

M.A., University of Connecticut

Ph.D., University of Connecticut

Borer, Dale E. (1982)

Coordinator, Continuing Education

B.S., University of Wisconsin-La Crosse

M.S., University of Wisconsin-La Crosse

M.S., University of Wisconsin-La Crosse

Ed.S., University of Wisconsin-La Crosse

Martin, Thomas A. (1985)

Assistant Director, Student Services

B.A., University of Wisconsin-Madison

M.A., University of Wisconsin-Madison

Mortenson, Thomas L. (1976)

Business Manager

B.S., Rockford College

Quicker, Sharon R. (1973)

Specialist, Library

B.A., Lakeland College

Strakulski, Peter C. (1979)

Coordinator, Public Information

B.S., Boston University

West, Betsy L. (1974)

Director, Student Services

B.A., University of Iowa

M.A., University of Iowa

Westfall, Susanne J. (1965)

Librarian

B.S., University of Wisconsin-Milwaukee

M.L.S., University of Wisconsin-Milwaukee

Faculty

Anderson, James L. (1981)

Assistant Professor, Business

B.A., University of Michigan

M.B.A., University of Michigan

aley, Kenneth M. (1972)

Adjunct Professor, Communication Arts

B.B.A., Case Western Reserve University

M.A., Case Western Reserve University

Ph.D., University of Iowa

Ball, Neil M. (1968)
 Assistant Professor, Chemistry
 B.S., University of New Hampshire
 M.S., University of New Hampshire
 Ph.D., University of Wisconsin-Madison

Bang, James S. (1963)
 Associate Professor, Sociology
 B.S., Mississippi State University
 M.A., Mississippi State University
 Ph.D., University of Wisconsin-Madison

Browne, Bruce C. (1985)
 Assistant Professor, Communication Arts
 B.A., College of Wooster
 M.A.T., College of Wooster
 M.F.A., University of Massachusetts
 (Amherst)

Das, Lovejoy (1985)
 Assistant Professor, Mathematics
 M.Sc., University of Lucknow (India)
 M.S., State University of New York-Stony
 Brook
 Ph.D., University of Lucknow (India)

Flannery, Richard F. (1978)
 Associate Professor, Political Science
 A.B., Syracuse University
 M.A., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Gates, John L. (1969)
 Associate Professor, Music
 B.M., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison

Graunke, Dean F. (1964)
 Associate Professor, Communication Arts
 B.S., University of Nebraska
 M.A., University of Nebraska

Grittinger, Thomas F. (1968)
 Professor, Biological Sciences
 B.S., University of Wisconsin-Milwaukee
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Milwaukee

Gross, James F. (1971)
 Associate Professor, Computer Science
 B.S., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison

Hansell, William H. (1965)
 Associate Professor, English
 B.A., LaSalle College
 M.A., University of Florida
 Ph.D., University of Wisconsin-Madison

Heidt, James G. (1965)
 Associate Professor, Geography
 B.A., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison

Homstad, Alice A. (1975)
 Instructor, Spanish
 B.A., University of Wisconsin-Whitewater
 M.S., University of Wisconsin-Milwaukee

Hughes, William E. (1965)
 Professor, Music
 B.M., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison



Jarosch, Richard M. (1966)
 Assistant Professor, Chemistry
 B.S., University of Wisconsin-Eau Claire
 M.S., University of Iowa

Kaepfel, Albert R. (1965)
 Assistant Professor, Physics
 B.Ed., University of Wisconsin-Whitewater
 M.S., New Mexico Highlands University

Karn, Edwin D. (1965)
 Assistant Professor, History
 B.A., University of Wisconsin-Madison
 M.A., University of Wisconsin-Madison

Korb, Kenneth W. (1961)
 Professor, Geography
 B.S., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Louzecky, David J. (1977)
 Assistant Professor, Philosophy
 B.S., University of Wisconsin-Madison
 M.A., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Margrett, Robert J. (1969)
 Associate Professor, English
 B.A., St. John Fisher College
 M.A., Niagara University

Marquardt, Lee C. (1964)
 Assistant Professor, Mathematics
 B.S., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison

Milicia, Joseph, Jr. (1976)
 Associate Professor, English
 B.A., Case Western Reserve University
 M.A., Columbia University
 Ph.D., Columbia University

Peneski, Thomas J. (1969)
 Assistant Professor, Mathematics
 B.A., Rockhurst College
 M.A., University of Wisconsin-Madison

Scherff, Barrett P. (1972)
 Lecturer, Biological Sciences
 B.S., University of Wisconsin-Madison
 M.S.T., University of North Dakota

Snyder, John J. (1969)
 Associate Professor, Physical Education
 B.S., University of Wisconsin-Platteville
 M.S., University of Washington

Steinberg, Charlene J. (1948)
 Professor, Chemistry
 B.S., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison

Tobin, G. Jean (1976)
 Associate Professor, English
 B.A., University of Wisconsin-Madison
 M.A., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Zemba, James E. (1967)
 Associate Professor, Art
 B.S., Western Michigan University
 M.F.A., Cranbrook Academy of Art

University of Wisconsin Center— Washington County

400 University Drive, West Bend, WI 53095, (414) 338-5200

Location: The University of Wisconsin Center-Washington County is located on 87 glacier-sculpted acres on the southwest side of West Bend.

Student body: In fall 1984, 754 students were enrolled, 373 men and 381 women. Both full-time and part-time students are enrolled. Student ages cover a wide range, with more than one quarter of the student body over age 25.

Although the campus draws students from over 30 Kettle Moraine communities; most students commute ten miles or less to campus.

Facilities: The campus complex includes classrooms, faculty administrative offices, auditorium, gymnasium, ceramic and art studios, music ensemble and practice rooms, student center and bookstore. An adjoining library contains an extensive collection of books, periodicals and records as well as computer terminals and a reading/writing lab.

Special programs: *Academic*—evening courses, special topics and lecture series, observatory, student support services in peer counseling, basic skills, Writing Forum Lecture Series for English students, *Lecture and Arts*—campus-community performance groups in music and theater, lecture and fine arts events; *Extra-curricular*—varsity and intramural sports, non-traditional-aged student drop-in meetings, Phi Theta Kappa-national junior college honorary society, weekly newspaper, special interest groups.

Course offerings

The following courses may be offered at least once during a two-year period. Variations in the courses offered each semester

are due to the availability of faculty, student demand, resources and curriculum changes. Check the Center's class schedule, or timetable, for specific course offerings.

Anthropology 100

Art 101, 102, 111, 112, 121, 131, 187, 188, 219, 231, 232, 238, 239, 253, 254, 259

Astronomy 100

Biological Sciences

Bacteriology 101

Botany 100, 130, 291, 299

Physiology 235

Zoology 101, 103, 234, 291, 299

Business & Economics

Business 101, 110, 201, 202, 204, 243

Economics 101, 203, 204, 230, 243

Chemistry 100, 125, 145, 155, 203, 211, 214, 244, 299, 343, 352, 363

Communication Arts 100, 101, 103, 130, 131, 201, 232, 234

Computer Science 110, 130, 131, 211, 213, 260, 270

Education 100, 200

Engineering

Graphics 102, 113

Mechanics 201, 202

English & Literature 101, 102, 201, 204, 250, 253, 260, 261, 262, 263, 270, 276, 299, 353, 355, 370, 380

Foreign Language

German 101, 102, 201, 202

Spanish 101, 102, 201, 202

Geography 101, 110, 115, 120, 123, 124, 125, 291, 297, 299, 342, 350

History 101, 102, 111, 112, 115, 120, 123, 124, 198, 215, 255, 299

Lecture Forum 101, 102, 103

Mathematics 081, 091, 102, 105, 110, 113, 117, 211, 212, 221, 222, 223, 299, 320

Music 070, 071, 072, 074, 075, 076, 077, 170, 171, 172, 173, 271, 272, 275, 276, 280

Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 101, 103, 211, 220, 241, 242, 248, 258, 291, 299

Physical Education 002, 005, 009, 016, 018, 027, 032, 043, 047, 058, 117, 118, 122, 123, 203, 205, 206, 213, 215, 299

Physics 141, 142, 201, 202

Political Science 101, 104, 124, 175, 201

Psychology 201, 202, 203, 205, 299, 507, 530, 560, 562

Sociology 101, 120, 125, 130, 131, 291, 299

Administration

Thompson, Robert O. (1973)

Dean

B.A., Earlham College

M.A., University of Chicago

Ph.D., University of Chicago

Bigler, Nancy (1976)

Specialist, Library

B.S., Ball State University

M.A., Ball State University

Gumm, Robert (1974)

Specialist, Audio Visual

Murphy, Michael (1983)

Director, Student Services

B.S., University of Wisconsin-Oshkosh

M.S., University of Wisconsin-Oshkosh

Moss, Ronald S. (1969)

Business Manager

B.S., University of Utah

Pearson, Betty A. (1979)

Coordinator, Public Information

Coordinator, Continuing Education

B.S., University of Wisconsin-Milwaukee

M.S., University of Wisconsin-Milwaukee

Peterson, Janis L. (1984)

Counselor/Advisor, Student Services

B.S., University of Wisconsin-LaCrosse

M.S.E., University of Wisconsin-LaCrosse

Faculty

Anderson, Kent C. (1972)

Associate Professor, Philosophy

B.S., Iowa State University

Ph.D., University of Wisconsin-Madison

Asch, Albert J. (1968)

Associate Professor, Music

B.M., University of Kentucky

M.A., University of Kentucky

Ayer, Peter F. (1969)

Associate Professor, Music

B.A., Beloit College

M.A., University of Kentucky

Bigler, Clair E. (1975)
Associate Professor, English
B.A., Ball State University
M.A., Ball State University
Ph.D., University of Wisconsin-Madison

Brigham, Thomas J. (1968)
Associate Professor, Phy. Ed.
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Britton, Gary L. (1967)
Associate Professor, Mathematics
B.A., Dakota Wesleyan University
M.S., South Dakota School of Mines and Technology
D.A., University of Northern Colorado

Brodie, Susan D. (1984)
Assistant Professor, English
B.A., University of Vermont
M.A., Northeastern University
Ph.D., University of Nebraska

Cahill, Michael E. (1974)
Assistant Professor, Physics/Astronomy
B.S., Manhattan College
M.S., University of Illinois
Ph.D., University of Illinois

Cahill, Rotraut C. (1974)
Associate Professor, Mathematics/Computer Sciences
B.A., Douglas College
M.A., University of Rochester
Ph.D., University of Illinois

Cleek, Margaret (1978)
Associate Professor, Psychology
B.A., University of Illinois
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Cleek, Richard K. (1970)
Associate Professor, Geography/Computer Science
B.A., University of Texas
M.A., University of Texas

Coakley, Carol J. (1968)
Lecturer, English
B.S., Marquette University
M.A., Marquette University

Craker, Loren (1980)
Lecturer, Engineering
B.S., University of Wisconsin-Madison

Diamanti, Joseph M. (1965)
Associate Professor, Chemistry
B.S., King's College
M.S., University of Vermont

Domisse, Edwin J. (1967)
Associate Professor, Geography
B.S., University of Wisconsin-Milwaukee
M.S., University of Wisconsin-Milwaukee

Ford, Bradford A. (1982)
Assistant Professor, Communication Arts
B.A., Wayne State University
M.F.A., University of Southern Mississippi

Gomes, Lawrence J. (1979)
Associate Professor, Economics
B.A., Dacca University, Bangladesh
M.A., Dacca University, Bangladesh
M.A., Cleveland State University
Ph.D., Wayne State University

Goodrum, Gordon (1974)
Associate Professor, History
B.A., University of Kansas
M.A., University of Kansas
Ph.D., University of Wisconsin-Madison

Grimm, Alan A. (1959)
Associate Professor, Chemistry
B.S., University of Wisconsin-Madison
M.S., Marquette University

Gross, Thomas C. (1966)
Associate Professor, Art
B.S., University of Wisconsin-Milwaukee
M.S., University of Wisconsin-Milwaukee
M.F.A., University of Wisconsin-Milwaukee

Huehner, David R. (1972)
Associate Professor, History
B.A., University of Illinois
M.A., University of Illinois
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Kemphorne, Dion Q. (1966)
Professor, English
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Kraemer, Eric R. (1985)
Assistant Professor, Philosophy
B.A., Yale University
M.A., Brown University
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Krevisky, Stephen (1981)
Instructor, Mathematics
B.S., City College of New York
M.S., Syracuse University

Krueger, Doreen R. (1980)
Lecturer, German
B.S., University of Wisconsin-Milwaukee
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Meidam, Miles T. (1969)
Associate Professor, Sociology
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Muendel, John (1974)
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M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Peterson, Roger (1981)
Associate Professor, Mathematics
B.A., Northwestern University
Ph.D., Ohio State University

Prasad, Sarada (1984)
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Roth, LuAnn R. (1979)
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B.A., Alverno

Saad, Sami M. (1972)
Professor, Botany/Bacteriology
B.S., American University of Beirut
M.S., American University of Beirut
Ph.D., University of Wisconsin-Madison

Schaefer, Wayne F. (1977)
Associate Professor, Zoology
B.E.S., Brigham Young University
M.S., University of Wisconsin-Milwaukee
Ph.D., Brigham Young University

Van Der Vaart, Richard (1977)
Assistant Professor, Physical Education
B.S., University of Wisconsin-La Crosse
M.A., Western Michigan University

Wall, G. Roger (1978)
Assistant Professor, Political Science
B.A., Millikin University
M.A., University of Stockholm
Ph.D., University of Stockholm



University of Wisconsin Center— Waukesha County

1500 University Drive, Waukesha, WI 53188, (414)521-5210

Location: Located in the geographic center of Waukesha County, the University of Wisconsin Center-Waukesha County covers 86 acres and is one mile south of Interstate 94 at the Hwy T exit.

Student body: In fall 1984, 2,146 were students enrolled, 998 men and 1,148 women. There is a mix of full-time and part-time students. There also is an age mix among the students, with about one third of the student body over age 25.

Although most students came from Waukesha County, students from Milwaukee, Washington, Racine, Jefferson, Ozaukee, and other counties were enrolled at the Center.

Facilities: Six of the Waukesha campus buildings are grouped around the campus mall. Northview Hall, the Administration Building, the Library and the Commons are joined on the northeast corner of the campus mall. The Field House and Southview Hall are situated on the south side of the mall. Outdoor tennis courts and an athletic field are located on the east side of University Drive and the Art Annex is on University Drive, next to the main campus. The Center also operates a field station 10 miles southwest on Hwy 18 at Waterview.

Special programs: *Academic*—Evening Associate Degree Program, Learning Lab, off-campus courses, parent-child center shared with WCTI, Back-to-School: The First Step—an orientation program for returning adult students, cooperative nursing program with Milwaukee County General School of Nursing, Community Outreach; *Scholarship*—Friends & Alumni Scholarship Program; *Lecture and Arts*—Frontiers of Discovery Lecture Series, Wilderness University Lecture Series, Commons Players, Waukesha Civic Theater, Madrigal Dinners during Christmas

and Easter, Arts for U Program, Jazz Ensemble, Wind Ensemble, Swing Choir, Madrigal Club; *Extracurricular*—intramural and varsity sports, interest clubs, Returning Adult Students Club, Fallfest and Spring Carnival.

Course offerings

The following courses may be offered at least once during a two-year period. Variations in the courses offered each semester are due to the availability of faculty, student demand, resources and curriculum changes. Check the Center's class schedule, or timetable, for specific course offerings.

Anthropology 100, 102, 105, 200, 202, 204, 250, 299, 302, 308, 314, 330, 400, 450

Art 101, 102, 111, 112, 121, 131, 141, 161, 171, 183, 187, 188, 201, 202, 219, 221, 222, 223, 224, 229, 231, 232, 239, 241, 243, 245, 247, 249, 269, 279, 289

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Engineering 100

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English & Literature 101, 102, 201, 202, 203, 204, 250, 251, 253, 255, 262, 263, 267, 270, 272, 276, 299, 351, 353, 370, 380

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Spanish 101, 102, 201, 202, 225, 226, 275, 277, 291, 299

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Lecture (University) Forum 101,

Mathematics 102, 105, 110, 113, 117, 124, 130, 211, 212, 221, 222, 223, 299, 320

Meteorology 100

Military Science 101, 213

Music 071, 072, 073, 074, 075, 076, 077, 078, 131, 132, 170, 171, 172, 173, 271, 272, 273, 275, 276, 299

Applied: piano, voice, and instrumental music; consult Music Department

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Administration

Knudten, Mary S. (1981)

Dean

B.A., University of Kansas

M.A., Valparaiso University

Ph.D., University of Chicago

Bracco, Donald (1974)

Coordinator, Continuing Education

B.S., University of Wisconsin-LaCrosse

M.S.T., University of Wisconsin-LaCrosse

Brown, Janet (1977)
 Director, Learning Laboratory
 B.A., Knox College
 M.S., Chicago State University

Cavanaugh, Jane (1948)
 Librarian
 B.S., University of Wisconsin-Milwaukee
 M.L.S., University of Wisconsin-Milwaukee

Connor, Sarah (1978)
 Specialist, Minority Disadvantaged Program
 B.S., University of Wisconsin-Stevens Point
 M.E.P., University of Wisconsin-Whitewater

Dehnel, William J.
 Business Manager
 B.B.A., University of Wisconsin-Madison

Eisenmann, Kurt (1984)
 Coordinator, Student Services
 B.A., Westmar College
 M.S., University of Wisconsin-Madison

Flesia, Faye (1969)
 Librarian
 B.S., Northland College
 M.S., University of Wisconsin-Madison

Freiberg, Melissa (1982)
 Lecturer, Minority Disadvantaged Program
 B.S., University of Wisconsin-Eau Claire
 M.S., University of Wisconsin-Milwaukee

Hanson, Jolene (1979)
 Specialist, Minority Disadvantaged Program
 B.S., University of Wisconsin-Madison

Jones, Paul (1984)
 Director, Student Services
 B.A., Trinity College
 M.A., University of Iowa
 Ed.S., University of Iowa

Jozwiak, Robert (1969)
 Program Coordinator, Office of the Dean
 B.A., Marquette University

Moss, Frederick (1966)
 Associate Dean, English
 A.B., Olivet College
 M.A., Ohio University
 Ph.D., University of Wisconsin-Madison

O'Brien Laraine A. (1966)
 Coordinator, Public Information
 B.A., Marquette University

Paque, Lynn (1971)
 Specialist, Public Information
 B.A., University of Wisconsin-Milwaukee

Reas, Stephen (1977)
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 B.A., Indiana Central University
 M.S., Indiana University
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Rios, Thomas (1984)
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 B.A., University of Wisconsin-Eau Claire
 M.Ed., University of Arizona

Syburg, Mary (1984)
 Lecturer, Student Services
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 B.A., University of Wisconsin-Milwaukee
 M.A., University of Wisconsin-Milwaukee

Faculty

Ahmed, Nullifer (1985)
 Assistant Professor, Sociology
 B.A., University of Dhaka
 M.A., University of Dhaka
 M.S., University of Wisconsin-Madison
 Ph.D., University of Michigan

Andrews, Susan (1968)
 Associate Professor, Psychology
 B.S., Miami University, Ohio
 Ph.D., University of Chicago

Bermant, Robert (1976)
 Associate Professor, Psychology
 A.B., Drew University
 M.A., University of Kansas
 Ph.D., University of Kansas

Braun, Eugene (1969)
 Assistant Professor, Biological Sciences
 B.S., Northern Illinois University
 M.S., Northern Illinois University

Burger, Josef (1964)
 Associate Professor, Political Science
 J.U.C., (Law) Charles University, Prague
 B.A., Montana State University
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Burgess, Jane K. (1967)
 Professor, Sociology
 B.S., University of Wisconsin-Stevens Point
 M.S., University of Wisconsin-Milwaukee
 Ph.D., University of Illinois-Urbana

Calhoun, Robert (1963)
 Associate Professor, English
 B.A., University of Virginia
 M.A., University of Virginia

Cheney, James (1971)
 Associate Professor, Philosophy
 B.A., University of California-Berkeley
 M.A., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Cooley, Kenneth W. (1968)
 Assistant Professor, Philosophy
 B.A., Phillips University
 M.A., Wichita State University

Cruz, Deanna (1984)
 Lecturer, Chemistry
 B.S., University of Philippines
 M.S., Marquette University

Dernehl, Nancy (1968)
 Assistant Professor, Biological Sciences
 B.A., University of Wisconsin-Milwaukee
 M.A., University of Michigan

Dills, Robert M. (1968)
 Assistant Professor, Economics
 B.A., State University of Iowa
 M.S., University of Wisconsin-Madison

Dolphin, Carol A. (1982)
 Instructor, Communication Arts
 B.S., University of Wisconsin-Milwaukee
 M.S., University of Wisconsin-Milwaukee

Fischer, Carol (1976)
 Assistant Professor, Business Administration
 B.B.A., University of Wisconsin-Madison
 M.B.A., University of Wisconsin-Madison
 CPA State of Wisconsin

Foran, Michele L. (1982)
 Assistant Professor, Mathematics
 B.S., University of Wisconsin-Milwaukee
 M.S., University of Wisconsin-Milwaukee

Fox, Harvey (1974)
 Associate Professor, Mathematics
 B.S., University of Wisconsin-Milwaukee
 M.S., University of Wisconsin-Milwaukee
 Ph.D., University of Wisconsin-Milwaukee

Goodrum, R. Gordon (1964)
 Associate Professor, History
 B.A., University of Kansas
 M.A., University of Kansas
 Ph.D., University of Wisconsin-Madison

Grotz, Leonard (1969)
 Professor, Chemistry
 B.S., Northwestern University
 Ph.D., University of California-Berkeley

Gutschow, Ronald P. (1969)
 Associate Professor, Mathematics
 B.S., University of Wisconsin-Milwaukee
 M.S., University of Wisconsin-Milwaukee
 Ph.D., University of Wisconsin-Milwaukee

Holbrook, Jane E. (1971)
 Associate Professor, Psychology
 B.A., University of Santa Clara
 M.A., University of Houston
 Ph.D., University of Houston

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 B.S., University of Wisconsin-Madison
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Johnson, Marlin P. (1967)
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 M.S., University of Wisconsin-Madison

Johnson-Martin, Christine (1982)
 Lecturer, Communication Arts
 B.S., Northern Michigan University
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Kaufman, Gladis M. (1982)
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 B.A., Wayne State University
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Keller, Carla (1971)
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- Kemp, Jean (1981)**
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B.S., Marquette University
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- Khan, Mohammed Suhaib (1982)**
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B.Tech., Indian Institute of Technology,
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M.S., Colorado State University
- Klingbeil, Jerrold L. (1967)**
Assistant Professor, Physical Education
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
- Knight, John (1969)**
Assistant Professor, Philosophy
B.A., University of Montana
M.A., Ohio State University
- Kosler, Karl (1983)**
Assistant Professor, Mathematics
B.S., University of Wisconsin-Milwaukee
M.S., University of Wisconsin-Milwaukee
Ph.D., University of Wisconsin-Milwaukee
- Kromarek, Kent (1983)**
Assistant Professor, Mathematics
B.S., South Dakota School of Mines and
Technology
M.S., University of Wisconsin-Milwaukee
- Lange, James A. (1966)**
Associate Professor, German
B.A., University of Michigan
M.A., University of Michigan
Ph.D., University of Wisconsin-Madison
- Marking, Geneva (1962)**
Assistant Professor, English
B.S., University of Wisconsin-LaCrosse
M.A., University of Wisconsin-Madison
- Matthias, Andrea (1968)**
Associate Professor, Music
B.M., Lawrence University
M.M., Indiana University
- Matthisen, Nancy M. (1968)**
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B.A., University of Minnesota
M.A., University of Minnesota
- McNulty, R. Blakely (1968)**
Assistant Professor, History
B.A., University of South Carolina
M.A., University of South Carolina
- Moylan, Thomas P. (1968)**
Assistant Professor, English
B.A., St. Mary's College
M.A., University of Wisconsin-Milwaukee
- Muendel, John E. (1974)**
Assistant Professor, History
B.S., Columbia University
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison
- Murnan-Smith, Betty (1966)**
Associate Professor, English
B.A., Butler University
M.A., State University of Iowa
- Naim, Shamim (1985)**
Assistant Professor, Geography
B.A., University of Allahabad
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Ph.D., Oregon State University
- Nair, Sasidharan (1984)**
Assistant Professor, Computer Science
B.S., Kerala University
M.S., Revishankar University
M.S., Ohio University
- Nelson, Neal (1983)**
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B.S., University of Wisconsin-LaCrosse
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- Orz, Diana (1970)**
Chemistry, Instructor
B.S., University of Wisconsin-Milwaukee
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- Parker, Alan (1976)**
Associate Professor, Biological Sciences
B.S., Eastern Illinois University
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Ph.D., University of Illinois
- Penkoff, Ronald (1967)**
Professor, Art
B.F.A., Bowling Green State University
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- Pierre, Gerald (1975)**
Assistant Professor, English
B.A., St. John's University
M.A., University of Minnesota
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- Post, Lonnie (1982)**
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- Pscheidt, Rita (1983)**
Lecturer, Chemistry
B.A., University of Wisconsin-Madison
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- Rabby, John W. (1964)**
Associate Professor, English
B.S., Spring Hill College
M.A., Marquette University
- Rohe, Randall (1983)**
Assistant Professor, Geography
B.A., Carroll College
M.A., University of Colorado
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- Rozga, Margaret (1982)**
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M.A., University of Wisconsin-Milwaukee
Ph.D., University of Wisconsin-Milwaukee
- Rozga, Therese (1968)**
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B.S., John Carroll University
M.A., Marquette University
- Ryan, Mary (1968)**
Associate Professor, Physical Education
B.S., University of Illinois
M.S., University of Wisconsin-Madison
- Sadler, Walter (1962)**
Associate Professor, Mathematics
B.A., Alfred University
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Ph.D., University of Wisconsin-Madison
- Schwanke, Richard (1970)**
Professor, Art
B.S., University of Wisconsin-Milwaukee
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M.F.A., University of Wisconsin-Madison
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B.F.A., University of Wisconsin-Milwaukee
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M.F.A., University of Wisconsin-Milwaukee
- Shah, Ghulam (1970)**
Professor, Mathematics
B.A., Kashmir University
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Ph.D., University of Wisconsin-Milwaukee
- Skryja, David (1976)**
Associate Professor, Biological Sciences
B.A., University of Nebraska at Omaha
M.S., University of Wyoming
Ph.D., Arizona State University
- Smith, Thomas E. (1984)**
Assistant Professor, Engineering
B.A., Alverno College
M.A., University of Wisconsin-Milwaukee
Ph.D., University of Wisconsin-Milwaukee
- Splies, Robert G. (1967)**
Professor, Chemistry
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
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Stimpert, Donald (1967)

Associate Professor, Music
B.S., Kent State University
M.M., Indiana University

Stonitsch, J. Peter (1976)

Assistant Professor, Mathematics
B.S., University of Notre Dame
M.S., University of Notre Dame
Ph.D., University of Notre Dame

Tien, Hung-Mao (1968)

Professor, Political Science
B.A., Tunghai University
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Tighe, Stephan (1982)

Lecturer, English
B.A., Marquette University
M.A., University of Wisconsin-Milwaukee
Toenes, Sara (1966)

Associate Professor, French
B.A., University of North Carolina-Greensboro
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Udovich, Gary (1976)

Associate Professor, Chemistry
B.S., Carroll College
Ph.D., University of Wyoming

Weast, Donald (1976)

Associate Professor, Sociology
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Werner, Steven E. (1974)

Assistant Professor, History
B.A., Lawrence University
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Whitney, John C. (1966)

Associate Professor, Music
B.S., University of Wisconsin-Stevens Point
M.M.E., Vandercook College

Wickliffe, Morris (1976)

Associate Professor, Physics
B.S., Arkansas Polytechnic College
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

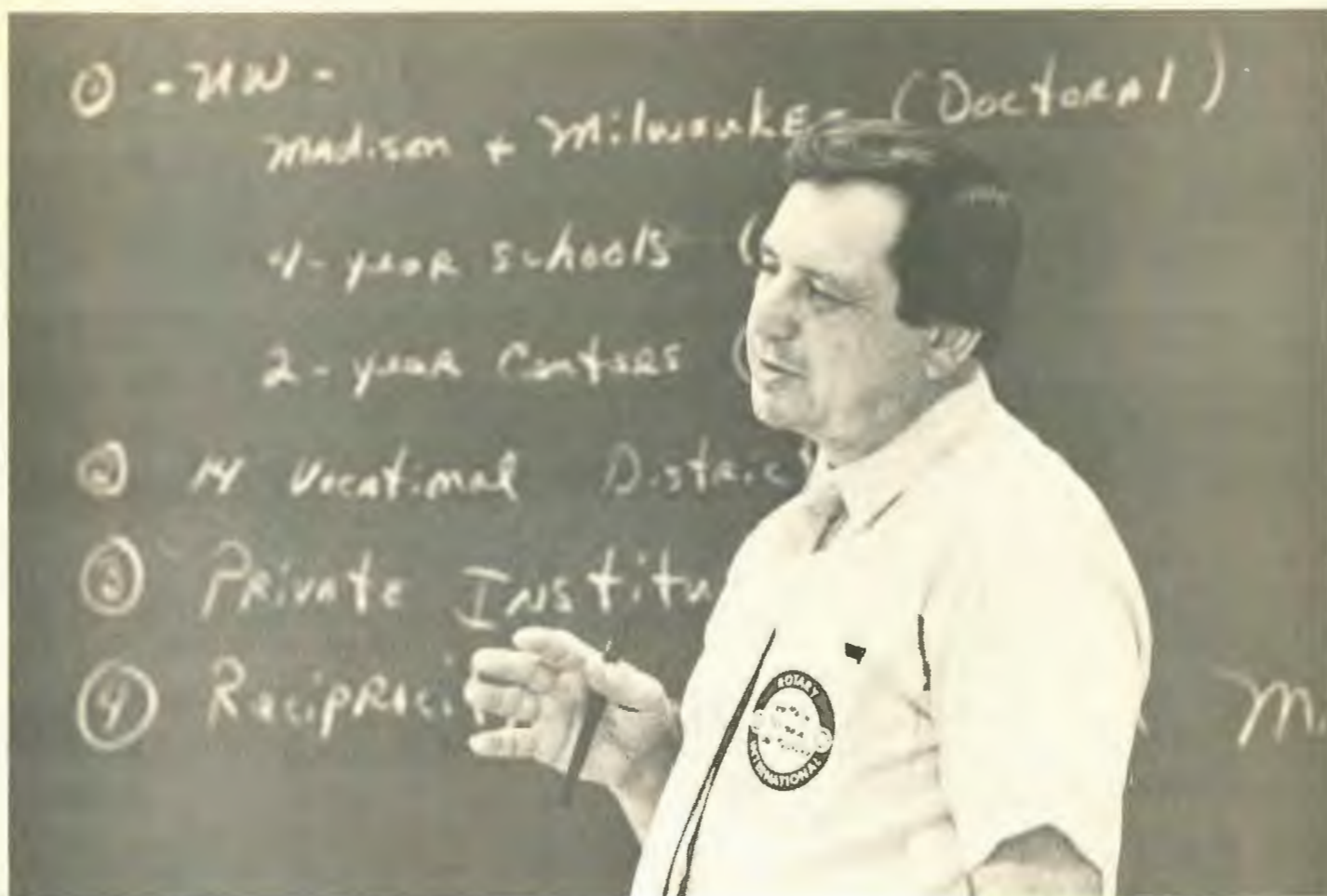
Young, Mary Ellen (1963)

Professor, Art
B.F.A., University of Illinois
M.A., University of Illinois
Zessin, Bruce D. (1969)
Associate Professor, English
B.A., University of California-Los Angeles
M.S., University of Wisconsin-Madison
Ph.D., University of California-Los Angeles
Zielinski, Daniel (1959)
Professor, Geography

B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Zweifel, Philip (1976)

Assistant Professor, English
B.A., St. John's University
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison



Calendars

Calendar A

Fall Semester 1985-1986

UWC-Marshfield/Wood & Waukesha

Registration	Aug.	19
Classes begin	Aug.	26
Labor Day	Sept.	2
Thanksgiving recess	Nov.	28-Dec. 1
Classes end	Dec.	10
Study days	Dec.	11
Final exams	Dec.	12-18
Semester ends	Dec.	20

Spring Semester 1985-1986

Registration	Jan.	13
Classes begin	Jan.	20
Spring recess	Mar.	22-30
Classes end	May	9
Final exams	May	12-16
Semester ends	May	18

Calendar B

Fall Semester 1985-1986

All UW Centers Campuses except Marshfield/Wood & Waukesha

Registration	Aug.	26
Labor Day	Sept.	2
Classes begin	Sept.	3
Thanksgiving recess	Nov.	28-Dec. 1
Classes end	Dec.	13
Final exams	Dec.	16-20
Semester ends	Dec.	23

Spring Semester 1985-1986

Registration	Jan.	16-22
Classes begin	Jan.	23
Spring recess	Mar.	22-30
Classes end	May	16
Final exams	May	19-23
Semester ends	May	25

Fall Semester 1986-1987

All UW Centers Campuses

Registration	Aug.	26
Labor Day	Sept.	1
Classes begin	Sept.	2
Thanksgiving recess	Nov.	27-30
Classes end	Dec.	15
Study day	Dec.	16
Final exams	Dec.	17-22
Semester ends	Dec.	24

Spring Semester 1986-1987

Registration	Jan.	15
Classes begin	Jan.	22
Spring recess	Mar.	14-22
Classes end	May	15
Final exams	May	18-22
Semester ends	May	24

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For specific information about your University of Wisconsin Centers campus, consult your campus timetable or student handbook.

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