



**WISCONSIN
STATE
UNIVERSITY
FOND DU LAC
CAMPUS**

CATALOG

1971-1972

1971-72
Catalog

Wisconsin State University
Fond du Lac Campus

1971-72 Campus Calendar

First Semester, 1971-72

Wednesday, August 25	Registration begins.
Thursday, August 26	Registration.
Friday, August 27	Registration concludes.
Monday, August 30	Classes begin at 8:00 a.m.
Monday, September 6	Labor Day, no classes.
Tuesday, September 7	Last day to add classes or to enroll for a full program.
October 4-8	Six week examination period.
Friday, October 29	Last day students may drop courses without special consent.
Wednesday, November 24	Thanksgiving recess begins at 11:50 a.m.
Monday, November 29	Classes resume at 8:00 a.m.
Thursday, December 16	Last day of regular classes.
December 17-23	Semester examinations (includes Saturday, Dec. 18).
Thursday, December 23	End of first semester.
Tuesday, December 28	Final grades due at 12:00 noon.

Second Semester, 1971-72

Wednesday, January 12	Registration begins.
Thursday, January 13	Registration.
Friday, January 14	Registration concludes.
Monday, January 17	Classes begin at 8:00 a.m.
Monday, January 24	Last day to add classes or to enroll for a full program.
February 21-25	Six week examination period.
Friday, March 17	Last day students may drop courses without special consent.
Friday, March 24	Spring recess begins at 5:50 p.m.
Tuesday, April 4	Classes resume at 8:00 a.m.
Tuesday, May 9	Last day of regular classes.
May 10-17	Final examinations (no exams on Saturday, May 13).
Wednesday, May 17	Semester concludes at close of exam schedule.
Tuesday, May 23	Final grades due at 12:00 noon.

Summer School 1972

Monday, June 12	Registration.
Tuesday, June 13	Classes begin at 7:30 a.m.
Monday, July 3	Independence Day recess.
Tuesday, July 4	Independence Day recess.
Saturday, July 8	Special class day replacing July 3.
Friday, August 4	Classes end.

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1970-1971 CAMPUS CALENDAR

The Campus academic calendar on page 2 contains some of the major academic dates of concern to students. Other dates which become important will be posted on official Campus bulletin boards and/or published in student publications.

In addition to the academic calendar, the Campus maintains an activity calendar through the student center. Periodically the student center posts the dates of coming events so that students can take advantage of those events and activities which are of special interest to them.



The Fond du Lac Campus

Objectives of the Fond du Lac Campus

The Fond du Lac Campus is dedicated to teaching students it is authorized to serve who show ability to profit from its instruction by helping them to select, define, preserve, implement, and refine the ideals, skills and other knowledges upon which our civilization rests. These include beliefs in the dignity and integrity of the individual, concern for the democratic processes and the obligations of citizenship, respect for wisdom and scholarship, the cultivation of self-discipline and inner resources, a comprehension of our cultural inheritance, and the ability to apply the tools of truth, particularly those of science and of reason.

Attainment of these goals is sought through general and specialized curricula, through guidance of the individual students, through work offered to promote mastery of a specific field, through a conscious attempt to stimulate the student's curiosity, through stress upon the development of the communication skills, and through co-curricular and extracurricular activities sponsored by the University.

The primary purpose of the campus at Fond du Lac is to provide the first two years of high quality education at a low cost to qualified students of Fond du Lac County and surrounding areas. Secondary purposes are to offer a variety of programs in adult and continuing education, and to become a focal point of community service and cultural activities.

Governance and Affiliation

The Fond du Lac Campus is part of the Wisconsin State University System, which includes nine degree-granting universities and several two-year campuses. The system is governed through the State of Wisconsin Coordinating Council for Higher Education, the Board of Regents of State Universities, and the presidents of the universities.

Branch campuses are administratively affiliated with one of the degree-granting institutions of the system. The Fond du Lac Campus is affiliated with the Wisconsin State University located at Oshkosh. The ranking administrative officer on the Fond du Lac Campus is the Dean.

History and Location

History is the story of people, and the history of the Fond du Lac Campus is primarily the story of the people of Fond du Lac County. The story began in 1963 when the Wisconsin Coordinating Council for Higher Education (CCHE) designated Fond du Lac as a potential site for a two-year branch campus as part of its "out-reach" plan designed to bring quality higher education within easy reach of students.

In response to the CCHE, a Citizens' Committee of Fond du Lac residents began exploratory studies which led to a formal resolution in 1966 by the Fond du Lac County Board of Supervisors expressing its desire to support such a campus. Following the Board's resolution, the CCHE designated the State University System as administrative agent for the campus; and in April of 1966, the Board of Regents of State Universities assigned operational responsibility to Wisconsin State University-Oshkosh. During the same month, the County Board created a campus committee from within its membership and passed on enabling resolution authorizing the committee to proceed with the development of the campus. The campus committee in June, 1966, recommended to the Board a site for the campus (eventually consisting of approximately 182 acres north and east of the Vocational, Technical, and Adult School), and, at the same meeting, the County Board authorized the committee to interview and, ultimately, to recommend an architectural firm.

In August, 1966, the County Board authorized the campus committee to exercise options on the land, and to hire an architectural firm to design the campus. October, 1966, saw the County Board receive cost estimates, approve the campus plan, and instruct the campus committee to proceed with applications for federal aid. (Subsequently, the State Aids to Higher Education Board recommended to the Federal Government that \$1,840,310 in federal funds be granted to Fond du Lac County to help defray construction costs. The cost of the project, including the site and construction contracts approved, amounted to \$5,156,549.)

Bids were opened on September 19, 1967, and construction began on September 27. The campus opened in the fall of 1968.

The Campus is located on the northeast side of the City of Fond du Lac near the intersection of East Johnson Street and Prairie Road.

Accreditation

The Fond du Lac Campus is a branch of Wisconsin State University-Oshkosh, which is fully accredited by the North Central Association of Colleges and Secondary Schools. Consequently, course work successfully pursued at the campus is fully accredited. Credits earned at the Fond du Lac Campus will transfer to institutions in the State University System and to other institutions in and out of Wisconsin.

Library Service

The library offers an open stack collection of material to meet student and faculty needs. A broad reference collection is available to supplement library holdings geared to the freshman-sophomore level college student. To add a greater dimension, the resources of the Forrest R. Polk Library at the Wisconsin State University Campus in Oshkosh are available for both direct and interlibrary loan to students and faculty. Polk Library also has on deposit a collection from the Wisconsin State Historical Society, and it is a partial depository for the Government Document Collection.

Regular Terms

The campus operates on the semester system, with the first term opening in August and the second in mid January. Freshman pre-registration and orientation for the first term is handled at specially designated times, usually in the summer. Registration for students is as indicated by the calendar printed in this catalog.

Summer Terms

Summer sessions are terms designed to serve both regular and special students. A complete listing of summer courses is contained in the annual summer publication of the Fond du Lac Campus.

Extended Services

An important function of the WSU-Fond du Lac Campus is to provide programs of adult and continuing education to residents of the area, thereby assisting the campus to become a focal point on community service and cultural activity.

Continuing education classes are organized through the cooperative effort of the WSU-Oshkosh Division of Extended Services and the Fond du Lac Campus.

Persons enrolling in continuing education courses should check with their advisors to make certain that the courses meet the requirements of the curriculum in which the student is involved.

Evening Credit Program: Undergraduate and graduate courses are offered evenings at the Fond du Lac Campus each semester. These classes attract diverse participants: some are working toward degrees, while others are enrolled as "special students" simply for intellectual stimulation or personal satisfaction. Anyone 18 years old or older may enroll as a "special student."

A regular day program student who wishes to enroll in evening credit courses should confer with his coordinator to make certain that the courses meet the requirements of his curriculum or program. A student in **dropped** status may enroll for no more than 3 credits per semester upon recommendation by the coordinator of the school in which he was last registered. Extension students wishing to obtain a degree from the university must file a long form application for admission to the university. Admission forms are available in the Admissions Office.

Non-Credit Programs: Non-credit seminars, conferences, and special interest programs in the professions, the arts, the humanities, and the sciences are offered each semester.

Through an exchange of views with faculty from many disciplines, and with program participants from widely varied backgrounds, these programs provide an opportunity to concentrate on the immediate present in which Americans live, to read of and discuss the issues of our time, and to explore the composite character of our individual responses. Non-credit programs are open to everyone, regardless of educational background.

Credit and non-credit program brochures are available from the Office of Educational Services.

Campus Buildings

Grouped around a two-acre man-made lake, the Fond du Lac Campus is comprised of six newly constructed buildings. This complex of buildings will accommodate an enrollment of 900 students. The campus is so designed that by adding to the library and student center, and by constructing another science building and another classroom building, the capacity can be doubled to 1800 students.

The campus is modern in every respect, with buildings designed to provide maximum flexibility in interior space arrangements. Provisions have been made to incorporate the latest instructional developments and innovations in the areas of closed circuit and regular television, programmed instruction, and individual study.

All the buildings on campus, with the exception of the physical plant and the physical education building, are fully air-conditioned. Carpeting is used extensively throughout the classroom building, the library/administration building, the student center, and, where practical, in the science building for its acoustical and maintenance qualities and for its positive affect upon the total teaching and learning environment.

Classroom Building

This two-story building contains 21 non-specialized classrooms and lecture rooms of varying sizes to provide flexibility. Included also are 22 faculty offices and a conference room.

Science Building

The science building, a two-story structure, houses teaching laboratories for the following courses: general biology, physiology-anatomy, general chemistry, quantitative and organic chemistry, physics, geography-geology, statistics, engineering drawing, and art. Necessary preparation and storage spaces are conveniently located to add to the efficient utilization of the laboratories. A business administration classroom, an art classroom, a science lecture room, a science classroom, and 13 faculty offices complete the facilities contained within this building.

Library/Administration Building

The library, containing approximately 11,000 square feet, occupies the first floor of this two-story building. A large reading room, two study rooms, a typing room, and a microfilm room are included within the library. The open stack arrangement is used, with sufficient stack space for over 40,000 volumes. Facilities contained on the second floor include the electronic language laboratory with an adjoining classroom, audio-visual classrooms and work areas containing individual study carrels, and administrative and business offices. The language laboratory and audio-visual facilities combine with the library in forming an effective learning resource center.

Academic Procedures and Policies

Admission to the Fond du Lac Campus

Admission Requirements

The Board of Regents has established the following requirements for gaining admission to the state universities.

1. High School Graduates.
 - a) A new student must complete the Application for Admission form. After completion of the student section of the application, the form must be sent to the high school principal or counselor of the high school from which the applicant graduated. The high school completes the form and mails it directly to the Admissions Office.
 - b) The student has earned a high school diploma.
 - c) The student ranks in the upper three-quarters of his high school class. (Students ranking in the lower one-fourth of their high school classes must attain an ACT standard score composite of 17 or more before being admitted on Probation. A student scoring below 17 must attend summer school on a trial basis, and must carry a minimum of six credits. The student must earn at least a 1.5 grade point average to be eligible to enter the university in fall on probationary status.)
 - d) The student has earned nine units of academic credit from the areas of: English, Speech, Social Studies, Mathematics, Natural Science, and Foreign Languages.
 - e) The student must be recommended by his high school principal or counselor.
 - f) The student has taken the American College Test or S.A.T. (A.C.T. preferred.)
 - g) The student has a complete physical examination.
 - h) A non-resident student must meet requirements a, b, c, d, e, f, and g.
2. Transfer Students.
 - a) A transfer student must complete the Application for Admission form. After completion of the student section of the application, the form must be sent to the high school principal or counselor of the high school from which the applicant graduated. The high school completes the form and mails it directly to the Admissions Office.
 - b) The student must furnish a certificate of physical examination.
 - c) A transfer student must file with the Admissions Office one official transcript of credits from all colleges and universities previously attended.

- d) A Personal Reference form must be completed by the college last attended and filed in the Admissions Office. (Not necessary if out of school 5 years or more.)
- e) Final decisions regarding admission status rests with the Admissions Office

3. Readmission Procedures.

When a student drops out of the university for at least one semester, he is required to complete a readmission form. The form may be obtained at the Educational Services Office where it will be processed.

Students who were suspended because of poor scholarship follow the above procedure, and once readmitted, must fulfill requirements listed under SCHOLASTIC STANDARDS.

4. Others.

By Board of Regents resolution, **students who are not high school graduates** shall be admitted as candidates for a diploma or degree on giving satisfactory evidence of being able to do college work, if they are twenty-one years of age or if they have served honorably in the United States Armed Services.

Advanced Placement

Wisconsin State University, Fond du Lac Campus will grant appropriate credit based upon examinations in the Advanced Placement Program of the College Entrance Examination Board. Credit will be granted if the score on the examination is "3" or above, and such credit is applicable to the student's degree requirements. Advanced Placement is also granted under the College-Level Examination Program (CLEP) of the College Entrance Examination Board. For further information contact the Director of Student Services.

Admission Procedures

1. Students planning to attend Wisconsin State University-Oshkosh should write the Director of Admissions for an application form. After completing the student section, the form is to be turned over to the principal or counselor of the high school from which the student is graduating or has been graduated. The principal completes the application and returns it directly to the Admissions Office in sufficient time to permit the director to pass upon the student's credentials and to notify the applicant of his acceptance or rejection before the opening of the university year.

2. The A.C.T. (American College Test) or the S.A.T. is required for admission of students who attend a state university. (S.A.T. may be substituted, but A.C.T. is preferred). It should be taken during the junior or senior year of high school at one of the testing centers located throughout the state. The test is used for guidance purposes throughout the student's college career.

3. All students entering the university for the first time for residence study shall furnish a certificate of physical examination by a registered physician; health examination forms will be furnished by the Admissions Office. In cases where religious beliefs prohibit such examinations, a certificate of waiver from legal claim for death or injury due to physical disability shall be filed with the Health Center.

Admission Deadlines

All applications to the fall semester 1971 must be completed and filed in the Admissions Office on or before August 6, 1971. All applications to the second semester 1971-72 must be completed and filed in the Admissions Office on or before December 23, 1971.

Transferring to the Fond du Lac Campus

A student who is transferring to the Fond du Lac Campus from another institution follows the general admissions procedures, and in addition must file a transcript of credits from each college and university attended. In order to be admitted, the transfer applicant must be eligible to continue at the school from which he is transferring. He also must meet the general admission requirements of the State University System.

Continuing Study at WSU-Oshkosh

When a student attending classes at the Fond du Lac Campus is at the point where he will continue his studies on the WSU-Oshkosh Campus, the Office of Educational Services should be notified so that copies of records can be sent from the Fond du Lac Campus to the WSU-O registrar and to the dean of the school the student will enter. (School of Business Administration, School of Education, School of Letters and Science, School of Nursing.) The deans of the school will inform the proper subject area department chairman so that an advisor in the student's major field can be assigned. A student may transfer up to 72 hours of credit from two year campuses to the Oshkosh Campus.

Transferring to Another Institution

A Fond du Lac Campus student who wishes to transfer to another university or college makes application to the school he plans to attend. Application includes the filing of a transcript of credits, which will be sent upon request of the student from the Fond du Lac Campus to the school involved. Students should be familiar with the programs and requirements of the school from which a degree is anticipated, so that course work taken at Fond du Lac will be appropriate. Students who plan to transfer to a degree-granting state university campus can transfer up to 72 credit hours of work.

Registration and Orientation

New students are programmed and pre-registered for classes during orientation sessions held on the campus during the summer. The student will have an opportunity to plan his academic program with an advisor as part of the process. Students register according to the information which is obtained during the orientation program.

Students admitted late may program with an advisor and register for classes at the start of the semester according to instructions received from the Admissions Office.

Continuing students already in attendance will program with an advisor during the current semester and register according to instructions received from the Educational Services Office.

Students may enter the university at the beginning of either semester or summer school. Attendance in a summer session does not automatically admit a student to the fall semester. Students who first attend WSU-Fond du Lac Campus during a summer session and also plan to enroll in the fall semester must apply for admission for each separately. A late student may register during the first ten days of any given semester and during the first five days of a summer session.

Evaluation of Credits

Evaluation of credits for transfer students is made in the Admissions Office. All other evaluations are made in the Educational Services Office. They stand for a period of five years. If a student's curriculum is not completed within that time, the university reserves the right to revise the evaluation of his credits.

Attendance

The campus does not recognize "cuts." Students are expected to be present for each scheduled class session. While attendance and punctuality are under the control of the instructor, the administration is concerned with these matters. A number of general regulations do apply:

(1) The student is directly responsible to each of his instructors for attendance in each scheduled class.

(2) The instructor may initiate his own policy regarding attendance for each course he teaches; if the instructor teaches more than one section of a course, the same policy should be used by the instructor for all such sections.

(3) The instructor should announce his policy to each of his classes during the first two weeks of the semester, but it is the responsibility of the student to know the policies of his instructors.

(4) If students must be absent to participate in a group activity sponsored by the university and approved by the Vice President of Academic Affairs, the group's faculty advisor or the instructor in charge should provide a signed excuse at the request of a participating student.

(5) A dean may recommend that a student be excused who incurs an absence for personal reasons.

(6) A university physician may, at his discretion, recommend that a student who incurs an absence for health reasons be excused.

(7) In all cases of absence, excused or otherwise, the student is responsible for completing missed work. The instructor is not required to do extra teaching unless so assigned.

Credits

Credit for work at the campus is expressed in semester hours. A credit of one semester hour represents the satisfactory completion of the work of one recitation a week for a period of one semester. A course having three recitations a week will therefore give three semester hours of credit. Two hours of laboratory work generally count as one credit hour. Eighteen semester hours of work (including extension, correspondence, etc.) is a maximum student academic program.

Grading System

A	Excellent	4 grade points per credit
B	Good	3 grade points per credit
C	Fair	2 grade points per credit
D	Passing	1 grade point per credit
F	Failure	0 grade point per credit
WF	Withdrawal with Failure	0 grade point per credit

WF's will be counted as F's in the determination of the semester grade point average and the machine-computed cumulative grade point average. The latter is to be distinguished from the credit-grade point ratio required for graduation. (See point 4, Specific Undergraduate Degree Requirements under Academic Program.)

The mark of I (Incomplete) is assigned only when the course has been substantially completed, the work remaining can be done without attendance at class, and because the student fails to complete all requirements by the end of the term for good cause. Incompletes assigned at the end of the first semester must be made up by the end of the following summer school. Incompletes assigned at the end of the second semester must be made up by the end of the next fall semester. If the incomplete is not made up within the allotted time, the Educational Services Office will change the I to an F on the student's permanent record. When good reason for an extension of time is given to the Coordinator of Advisement, the Coordinator may authorize the Director of Educational Services to grant such extension as may seem appropriate.

Classification

A student must have earned 30 semester hours of credit to be classed as a sophomore, 60 semester hours of credit to be classed as a junior, and 90 semester hours of credit to be classed as a senior.

Honors

The Honor Roll for each semester shall include the name of every student who, having carried a program of not less than 14 credits hours during that semester, has received a grade point average of at least 3.3 with no grade below C.

High-ranking students are also honored by inclusion on the semi-annual "Dean's List" issued by the deans of schools. A grade point average of 3.75 is necessary for inclusion on these lists.

Activity Limitations

Because students may become involved in extracurricular activities to the point where academic work suffers, certain limitations on office-holding have been established. During a semester, a student may not serve more than one campus organization or group as president, nor may a student be president of an organization and also editor or business manager of the university newspaper or yearbook. When a student is elected president of an organization, a statement is filed with the Office of Educational Services in which the student declares that only one such office is being held.

Academic Advisement

Every student on campus is assigned to a faculty academic advisor who, with the student's coordinator of advisement, helps the student construct, semester by semester, an academic program of course work which will meet college requirements for graduation. The advisement takes into account the student's abilities and interests, and is considered an important aspect of the work of the university. However, it is the student's responsibility to meet published requirements for graduation.

Changing A Program (Drop and Add)

When a student enrolls he must complete the work of each course in the class sections assigned as they appear on his original program, unless his program of courses is later **officially** changed. All student-initiated changes to programs which modify the original assignments to courses and class **sections** as they appear on the completed registration materials must be made in accordance with the following procedures:

After classes have begun, a student who wishes to change his program by adding or dropping a course, substituting one for another, or changing class

sections, must do so before the final date as established in the university calendar on page 4. He does so by securing and completing a drop and add form with his instructor. The student then confers with his advisor, obtains the advisor's signature of approval on this form, and files it in the Educational Services Office.

After the official drop period, a course may not be dropped unless a written request by the student is approved by his coordinator. A grade of W or WF will be recommended by the coordinator.

If the student does not file the drop and add form with the Educational Services Office, the change is not considered official and the student receives an F for the "dropped" section or course and no credit for the "substituted" course.

No course may be dropped during the last two weeks of classes without the grade of F.

Before classes have begun, special procedures for changing programs of course work approved by an advisor during the registration period apply. These regulations may be secured at the Educational Services Office.

Withdrawal From The Fond du Lac Campus

Withdrawal is a complete severance of connection with the campus. If a student withdraws during a semester, the withdrawal procedure is initiated in person by the student, or a person designated by the student, at the Office of Student Services. Mere cessation of attendance or departure from the campus does not constitute withdrawal, although a student who ceases to attend classes in which he is enrolled for credits will lose the privileges of the university. Withdrawal should not be confused with the mere dropping of courses or changing of status within the same course.

Fee Refund Schedule

(See Fee Section on Page 37.)

Scholastic Standards

Definition of Scholastic Terms

Academic Probation: This term is used to indicate that the minimum grade point standards set for the university for probation/retention have not been met. The student is officially notified, by being placed in this status, that improvement is necessary in order to be continued in attendance.

Suspension: When the given period of academic probation has been allowed and/or satisfactory progress has not been made in meeting the required academic standards of the university, a student may not be continued in attendance.

Classification: Students are classified by the number of semester credits earned: 0-29 freshman; 30-59 sophomore; 60-89 junior; 90 over, senior.

Grade Point Averages: Grade point averages are determined by the "grade point system"; they are computed by dividing the number of grade points earned at this university by the number of credits attempted at this university. Point values are related to the various letter grades as follows:

Letter Grade	Grade Points Per Credit
A	4
B	3
C	2
D	1
F (failure)	0 (counts as credits attempted)
I (incomplete)	0 (not counted as credits attempted)
W (withdrew-passing)	0 (not counted as credits attempted)
WF (withdrew-failing)	0 (counts as credits attempted)

Probation, Retention, And Suspension Policies

A student is placed on academic probation if his academic record does not meet the standard set by the campus. Conversely, a student will be removed from probation at the end of any semester or summer school in which his academic record meets the prescribed standards. Special probation and retention rules apply to new freshmen and to transfer students entering on probation. All other students are allowed two semesters on probation before being suspended for failure to meet minimum standards. It is the student's responsibility to notify the Educational Services Office of any change in his probationary status.

New Freshmen Entering on Probation

Probation is removed if a student earns a grade point average of 1.6 or more on 18 or less credits earned, or a 1.8 on 19 or more credits earned. A freshman who enters on probation and earns less than the required grade point average as outlined above will be given a second semester on probation to raise his G.P.A. to the accepted level. Failure to do so will cause the student to be suspended for one semester.

Transfers Entering on Probation

A transfer student who is admitted on probation and fails to earn the required grade point average at the conclusion of the first semester in attendance

at this campus will be suspended for a period of one semester. A transfer student who is admitted on final probation and fails to earn the required grade point average at the conclusion of the first semester in attendance at this campus will be suspended for a period of two years.

Minimum Probation and Retention Standards

A student is placed on probation if he fails to meet the following grade point averages:

Credits Earned	GPA
0-18	1.6
19-48	1.8
49 and above	2.0

Any student will be suspended from this campus at the end of any semester in which he does not meet the following minimum standards:

Credits Earned	GPA
0-18	.75
19 and above	1.00

Suspension

The student's first suspension is for a period of one semester. A student who is suspended, readmitted on final probation, and again fails to earn the required grade point average will not be eligible for readmission for a period of two years. These probation and suspension policies apply to all campuses of the state university system. Thus, a student suspended for academic reasons on one state university campus may not enroll at another state university campus until he is eligible for readmission at the university which suspended him.

Transfer Students

Credits earned at regionally accredited institutions and taken in curricular areas comparable to those offered at WSU-Fond du Lac Campus will generally be considered for transfer credit. If a transfer student is admitted on any level of probation, courses in which grades of "C" or above have been earned will be accepted. If the student is not admitted on probation, courses in which grades of "D" or better have been earned will be accepted. Semester hour credits are transferred at full value. Quarter hour credits are given $\frac{2}{3}$ semester credit per quarter hour credit. Transferred credits may count toward graduation, but such grades and credits will not be used in the computation of the cumulative grade point average. The number of credits which are accepted in transfer from other universities, combined with credits earned at this university, will determine the minimum probation and retention standards that apply in each case.

Repeated Courses

Courses may be repeated to improve a student's grade point average at this campus. When a course is repeated, the most recent grade awarded is

used in computing the grade point average. In other words, the credits attempted, credits earned, and grade points resulting from the most recent attempt of a course are the ones used in computing the grade point average.

There is no limit on the number of times that a course may be repeated; however, the grade point average will be based on the last time that the course was taken. In most instances, a student will benefit from repeating a course since it is expected that the student will improve his grade. However, if he repeats a course and earns a lower grade, the lower grade will be used in the computation of grade point averages.

A grade of "C" or better must be earned in a course repeated on another campus. In this case the grade earned in a course at WSU-Fond du Lac Campus will be disregarded in computing grade point averages. Credits earned for the repeat course on another campus will transfer to this campus, but will not be used in computing the student's grade point average.

Academic Appeals

If a student can satisfactorily demonstrate that his academic suspension was beyond his control or due to extenuating circumstances, he may appeal his suspension to the Appeals Board by means of the Dean's Office. Appeals should be in writing and should clearly state the extenuating circumstances that contributed to the problem. Students who continue as a result of a successful academic appeal are considered to be continuing on the second semester of probation.

Academic Requirements and Programs

Major and Minor Areas of Study

The following major and minor areas of study are available at WSU-Oshkosh. Detailed outlines of course requirements and course descriptions appear in the Oshkosh catalog. Up to two years of work in most areas can be completed on the Fond du Lac Campus.

AFRICAN STUDIES: Minor.

AFRO-AMERICAN STUDIES: Minor.

ANTHROPOLOGY: Major. Minor.

ART: Major [[In the School of Education, within the framework of the Bachelor of Art Education degree. In the School of Letters and Science, within the framework of the Bachelor of Science in Art degree (Fine Arts emphasis), and also within the framework of the Bachelor of Science and Bachelor of Arts General Course degrees (Art History emphasis.]] Minor—Within the School of Education only.

ASTRONOMY: Minor.

BACTERIOLOGY: See Microbiology and Public Health.

BIOLOGY: Major (General Biology, Botanical, and Zoological emphases). Minor.

BUSINESS ADMINISTRATION: Areas of Emphasis: (The School of Business Administration offers professional areas of emphasis in: Accounting, Finance, Management, Manpower Management, and Marketing.)

CHEMISTRY: Major (Professional, School of Letters and Science), Secondary. Minor.

COMMUNICATIVE DISORDERS: Major. Minor.

EARTH SCIENCE EDUCATION: Major. (School of Education only.)

ECONOMICS: Major. Minor.

EDUCATION: See School of Education.

ENGLISH: Major. Minor.

FOREIGN LANGUAGES: Majors in French, German, Spanish. Minors in French, German, Russian, Spanish.

GEOGRAPHY: Major (Cultural and Physical emphases). Minor.

GEOLOGY: Major. Minor.

HEALTH EDUCATION: Minor.

HISTORY: Major. Minor.

INTERNATIONAL STUDIES: Major.

JOURNALISM: Major. Minor.

LATIN AMERICAN STUDIES: Minor.

LIBRARY SCIENCE: Major. Minor.

MATHEMATICS: Major. Minor.

MICROBIOLOGY AND PUBLIC HEALTH: Major. (School of Letters and Science only.)

MILITARY SCIENCE: Curriculum.

MUSIC: Major (in the School of Education, within the framework of the Bachelor of Music Education, Instrumental, and Vocal emphases. In the School of Letters and Science, within the framework of the Bachelor of Music degree, Piano, Organ, Vocal, Instrumental, and Music Therapy emphases; and within the framework of the B.S. and B.A. General Course degrees, Vocal and Instrumental emphases.) Minor (Elementary Education).

MUSIC THERAPY: Major. (School of Letters and Science only).

NATURAL SCIENCE: Broad Field Major. (School of Education only).

NURSING: Major. (School of Nursing only).

PHILOSOPHY: Major. Minor.

PHYSICAL EDUCATION: Major and Minor for men and for women. (School of Education only).

PHYSICS: Major. Minor.

POLITICAL SCIENCE: Major. Minor.

PSYCHOLOGY: Major. Minor.

SAFETY AND DRIVER EDUCATION: Minor.

SOCIAL SCIENCE: Broad Field Major (School of Education only).

SOCIAL WELFARE: Major.

SOCIOLOGY: Major. (Sociology-Anthropology and Social Welfare emphases.) Minor.

SPECIAL EDUCATION: Mental Retardation: Major. (School of Education only).

SPEECH: Major (Emphases in Speech Education, General Speech, Rhetoric and Public Address, Radio-TV-Film, and Theatre Arts). Minor.

URBAN AFFAIRS: Major. (School of Letters and Science only).

General Undergraduate Degree Requirements

All curricula leading to degrees require a minimum amount of study in certain subject areas. This study is intended to provide a background of knowl-

edge and abilities common to all students. Specific subjects and sequences from the areas listed below may be required by the different Schools of the University, and work may be prescribed beyond the minimum requirements in various subject areas.

Humanities

Art, Music, Drama	0- 6 credits
Literature, including Foreign	0- 6 credits
Foreign Language	0- 8 credits
Philosophy, except logic; Religion	0- 6 credits
<hr/>	
Total Minimum for Area	9-15 credits

Natural Sciences

Physics, Physical Science	0-10 credits
Chemistry	0-10 credits
Astronomy, Physical Geography, Geology	0-10 credits
Biology, Botany, Zoology	0-10 credits
<hr/>	
Total Minimum for Area	8-15 credits

(A minimum of 8 credits must be in laboratory sciences)

Social Sciences (minimum of 3 areas to be taken)

History	0- 6 credits
Geography (except physical)	0- 6 credits
Sociology-Anthropology	0- 6 credits
Economics	0- 6 credits
Psychology, Educational Psychology	0- 6 credits
Political Science	0- 6 credits
International Studies	0- 2 credits
Computer Science (Computers in Society)	0- 2 credits
<hr/>	
Total Minimum for Area	9-15 credits

University Requirements

Composition, Speech*	3- 9 credits
Physical Education	2- 4 credits
Conservation	0- 2 credits
Non-Western Cultural Course**	3 credits
Mathematics, Logic, Computer Science— except Computers in Society***	0- 6 credits
General Education Seminars****	0- 4 credits

Total Minimum General University Requirements

42 credits

*One Semester of composition required. Students earning course grades of A in first semester composition will be exempted from a requirement of 6 credits in composition.

**A student must include in the hours presented for graduation at least 3 credit hours of work from an approved list of courses with a significant non-western cultural content. (Contact Coordinator of Academic Advisement.)

***A minimum of two credits from one of the areas is required if a student has not completed 2 years of high school mathematics in areas of algebra and geometry. Students with a high school mathematics deficiency who wish to meet the 2-credit minimum in college mathematics should consult with their Coordinators of Academic Advisement.

****A General Education Seminar should be taken outside the division of a student's major.

Freshman or sophomore courses in the major and minor sequences and in the elementary education concentration may be counted in the above categories as appropriate. Certain courses which are particularly relevant for students preparing for teaching at various levels, or for certain other professional objectives, e.g. medical technology, also may be required.

All students, except those preparing for elementary school teaching, elect a major. Students preparing for high school teaching, with the exception of those preparing to teach only art or music, or those selecting a broad field science or social science major, also elect a minor. The requirement of a minor for students in secondary education is optional; permission to follow the option of selecting a single major (without a minor) may be granted by the Coordinator of Advisement in Secondary Education, in consultation with the student's adviser. Students preparing for elementary education teaching elect a subject area of concentration from one of the minors, or minor areas of concentration.

Specific Undergraduate Degree Requirements

1. All degrees require a minimum of 128 semester credits.
2. The student must have earned the number of prescribed credits and grade points in his curriculum and have completed the other requirements of the curriculum in which he is working.
3. A student must have attended this university one full year or two semesters, and must have secured at least thirty semester hours of credit in residence.
4. A student must have at least an average grade of C, which is interpreted to mean a number of grade points equal to twice the total number of credit hours earned and applicable to graduation.
5. Not more than one year's credit may be earned in extension courses (including correspondence work), and not more than one-half year's credit may be earned by correspondence.
6. One-half of the work of the senior year must be taken in residence.
7. At least 35 credits (42 in the School of Education except in junior high school and elementary education programs) must be in upper level courses (numbered 300 or above), with a minimum grade point average of 2.00.
8. A grade point average of 2.00 must be attained in English composition and in the major.
9. A student must earn twice as many grade points as credits in the last two years of a four-year curriculum. Excess grade points earned during the freshman and sophomore years may not be applied toward the number of grade points required in the junior and senior years.

10. Completion of such examinations as may be required from time to time by the university's Office of Testing Research and Services. The results of these tests are used to counsel and advise the individual student and to evaluate the university's instructional programs; the results in no way affect graduation eligibility.

A graduate of WSU-O who wishes to earn a second undergraduate degree at the university must meet all specific requirements for the second degree and, in addition, earn 16 credits in residence which were not applied to the requirements of the first degree.

A student seeking a second degree may earn the additional credits required either before or after he completes the requirements for the first degree. That is, the student does not have to graduate and then return to earn 16 credits in residence or complete other requirements for the second degree. However, even if a student meets all requirements for two degrees before initial graduation, he cannot be awarded both degrees at the same commencement ceremony.

*For specific degree requirements of the various WSU-O schools, see the WSU-O catalog.

Special Degree and Certification Programs

Engineering

(in cooperation with the University of Wisconsin)

Upon satisfactory completion of three years of course work listed at WSU-O and two additional years of course work in the University of Wisconsin, College of Engineering, in which the student pursues the requirements of the Chemical, Civil, Mechanical, Mining or Metallurgical curricula, the degree of Bachelor of Science (General Course) will be granted by the Wisconsin State University of Oshkosh. Upon the completion of an additional year in the College of Engineering, during which time degree and course requirements at the College of Engineering may normally be completed, the student will be granted the appropriate Bachelor of Science degree (Engineering) from the University of Wisconsin. Before scheduling for this program, the student should see his pre-engineering advisor and check the UW Catalog, especially as to the engineering drawing requirement.

Medical Technology

The following curriculum leading to the degree of Bachelor of Science in Medical Technology is offered in cooperation with Mercy Medical Center in Oshkosh, St. Elizabeth Hospital in Appleton, St. Joseph's Hospital in Beaver Dam, St. Luke's Hospital in Milwaukee, Madison General Hospital in Madison, West Allis Memorial Hospital in West Allis (Milwaukee area), Theda Clark Hospital in Neenah, and the Veterans Administration Center at Wood (Milwaukee area). The work of the first three years is taken at the University while the fourth year is taken at the hospital.

The following is a suggested course outline for students at the Fond du Lac Campus enrolled in a Medical Technology program. The Freshman and Sopho-

more years can be completed at the Fond du Lac Campus, and the Junior year at the Oshkosh Campus.

FRESHMAN YEAR

Chemistry 32-105 (General Chemistry)	5
Biology 26-107 (Principles of Modern Biology)	5
*Electives from Math, Social Science, English or Humanities	6
	<hr/>
Chemistry 32-106 (General Chemistry)	5
Biology 26-p06 (Vertebrate Biology)	5
*Electives from Math, Social Science, English or Humanities	6
	<hr/>
	16 cr.

SOPHOMORE YEAR

Biology 26-316 (Human Physiology)	3
Chemistry 32-321 (Chemical Equilibrium)	5
*Electives from Math, Social Science, English or Humanities	8
	<hr/>
Chemistry 32-313 (Organic Chemistry)	4
Biology 26-509 (Bacteriology)	5
Physical Education	1
*Electives from Math, Social Science, English or Humanities	6
	<hr/>
	16 cr.

JUNIOR YEAR

**Chemistry 32-502 (Biochemistry)	4
*Electives from Math, Social Science, English or Humanities	8
Biology Elective	3-5
	<hr/>
	15-17 cr.
Chemistry 32-520 (Introduction to Instrumental Analysis) Note: 32-321 is prerequisite for this course	3
Chemistry 32-514 (Organic Chemistry)	4
Physical Education	1
*Electives to complete 96 credits	7-9
	<hr/>
	15-17 cr.

***SENIOR YEAR

Blood Bank	Biochemistry	
Histology	Urinalysis	
Hematology	Bacteriology	
Parasitology	Mycology	
Serology	Cytology	
Immunology	Special Project	32 cr.

*Mathematics 67-141 and 67-142 are to be taken in the Freshman year by those who do not meet the requirements for Mathematics 67-161. Students meeting the requirements for Mathematics 67-161 should take this requirement during their Freshman year, so it is fulfilled before taking Chemistry 32-321.

**Chemistry 32-514 (Organic Chemistry) may be taken during summer school between the Sophomore and Junior years on the Oshkosh Campus if it is offered. This course is a prerequisite for Chemistry 32-502. If this is not possible, an advanced biology elective from a selected list may be substituted for Chemistry 32-502.

ALL general education requirements as listed in the catalogue must be met. One semester of English Composition will be taken sometime during the Freshman year. The second semester of English Composition will be taken during the Junior year.

NOTE: This above schedule may not be able to be followed exactly and certain individual students may find their program a little different, depending on the background of the student. This serves mainly as a guide for the student to point out the basic sequence. Each student should be aware of all prerequisites.

***The work described here for the Senior year represents areas that may be covered during the internship year.

Natural Resources

(in cooperation with the University of Michigan)

Combined Five Year Liberal Arts-Natural Resources Program with the University of Michigan School of Natural Resources.

Upon satisfactory completion of prescribed course work at this university and one additional year of course work in the University of Michigan School of Natural Resources in which the student pursues the requirements of the Forestry, Wildlife Management, Fisheries, or Conservation curricula the degree of Bachelor of Science (Liberal Arts) will be granted by Wisconsin State University, Oshkosh. Upon completion of an additional year in the School of Natural Resources, during which time degree and course requirements at the School of Natural Resources may normally be completed, the student will be granted an additional Bachelor of Science degree from the University of Michigan, or in the case of the student of superior ability, the appropriate Master's degree.

Police Administration Training Certificate

The Police Administration Training Certificate program is designed to provide instruction in four broad fields of specialization—political science (including public administration and law enforcement), sociology (especially criminology), psychology, and economics. In brief, the basic objective of the program is to expose police officers to a core of knowledge with the belief that such study will prepare them for more intelligent, mature and effective leadership while broadening their horizons and enriching their lives. It is based upon faith that individuals possessing such knowledge will be able to approach problems in a more understanding yet imaginative manner, will make more intelligent decisions and will be better prepared to carry out policies of police departments and other law enforcement agencies.

The curriculum of the Police Administration Training Certificate program shall consist of a minimum of 36 semester hours or a maximum of 42 semester hours. A total of fifteen (15) credits for work successfully completed with a grade of "C" or better in other colleges or universities of recognized standing may be granted toward the Police Administration Training Certificate providing that the courses may substitute in the curriculum. For further information contact Dr. Arthur Darken, Dean, School of Letters and Science, WSU-O.

Preprofessional Curricula

Students interested in such professions as Dentistry, Engineering, Forestry, Law, and Medicine may find it advantageous to take from one to four years of their undergraduate work at the WSU-Fond du Lac Campus and in the School of Letters and Science at the Wisconsin State University at Oshkosh. Financial savings, from living at or near home, frequently amount to a sum sufficient to carry a student through a year of graduate study.

Pre-Architecture*

FRESHMAN YEAR

First Semester		Second Semester	
Art 22 101	2 cr.	Social Studies, elective	3 cr.
English 38 101	3 cr.	Mathematics 67 171	5 cr.
Social Studies, elective	3 cr.	Physics 82 108	5 cr.
Mathematics 67 108	5 cr.		
Physics 82 107	5 cr.		

*See advisor for course requirements of University of Wisconsin-Milwaukee and out-of-state schools.

Pre-Dentistry

The majority of dental schools in the United States require a minimum of two years (64 credits) of pre-dental preparation in an accredited college of liberal arts and sciences. Some schools require three years, and nearly all encourage students to take three or four years of pre-dental training.* Four years are spent in dental school.

The Dental Aptitude Test is required of dental school applicants and is usually given in October, January or April of each year. The schedule below meets dental school requirements in two years.

*(Reference: "Admission Req. of American Dental Schools" American Assoc. Dental Schools.)

FRESHMAN YEAR**

First Semester		Second Semester	
Biology 26 107	5 cr.	Biology 26 126	5 cr.
Chemistry 32 105	5 cr.	Chemistry 32 106	5 cr.
English 38 101	3 cr.	Mathematics	3-5 cr.
Mathematics	3-5 cr.	Electives	3-5 cr.

SOPHOMORE YEAR

Chemistry 32 213	4 cr.	Chemistry 32 314	4 cr.
Electives	3-5 cr.	English 38 302	3 cr.
History 57 201	3 cr.	History 57 202	3 cr.
Physics 82 107	5 cr.	Physics 82 108	5 cr.

**Only stronger students should schedule the two-year plan above. Others do well to take a less concentrated program over 3 or 4 years (See degree requirements for B.S. and B.A.)

Pre-Engineering

These course schedules relate particularly to the University of Wisconsin-Madison, but similar requirements apply to programs at the University of Wisconsin-Milwaukee and Platteville State University.

FRESHMAN YEAR

First Semester		Second Semester	
Chemistry 32 105 or 32 109	5 cr.	Chemistry 32 106	5 cr.
English 38 101	3 cr.	Mathematics 67 172	5 cr.
Mathematics 67 171	5 cr.	Practical Arts 85 102*	3 cr.
Practical Arts 85 101*	3 cr.	Physics 82 109	5 cr.

*Social Science courses may be substituted if Practical Arts not needed.

Chemical Engineering

SOPHOMORE YEAR

First Semester		Second Semester	
Chemistry 32 213 or 32 216	4 cr.	Mathematics 67 371/571	3 cr.
Elective	3 cr.	Chemistry 32 314 or 32 318/518	4-5 cr.
Mathematics 67 273	3 cr.	Chemistry 32 221	5 cr.
Physics 82 110	5 cr.	Physics 82 202	3 cr.
Physics 82 301	3 cr.	Social Science Elective	3 cr.

Civil and Mechanical Engineering

SOPHOMORE YEAR

First Semester		Second Semester	
Physics 82 110	5 cr.	Economics 36 206	3 cr.
Economics 36 205	3 cr.	Mathematics 67 371/571	3 cr.
Mathematics 67 273	3 cr.	Electives	3-5 cr.
Physics 82 201	3 cr.	Physics 82 202	3 cr.
Practical Arts 85 201 (Civil only)	2 cr.	Political Science 84 105	3 cr.
		Practical Arts 85 202	2 cr.

Electrical Engineering

See your advisor about options possible. The choice should be made with reference to the University of Wisconsin-Madison College of Engineering Bulletin. See advisor if interested in the University of Wisconsin-Milwaukee College of Engineering.

Pre-Forestry

FRESHMAN YEAR

First Semester		Second Semester	
Biology 26 107	5 cr.	Biology 26 121	5 cr.
Chemistry 32 105	5 cr.	Chemistry 32 106	5 cr.
English 38 101	3 cr.	Mathematics 67 104 or elective	5 cr.
Mathematics 67 103 or 67 108	3-5 cr.	Speech 96 111	3 cr.

SOPHOMORE YEAR

(Michigan State University)			
Economics 36 205	3 cr.	Economics 36 206	3 cr.
English 38 225 or 38 226 or 38 227	3 cr.	English 38 302	3 cr.
History 57 201	3 cr.	English 38 225 or 38 226 or 38 227	3 cr.
Physics 82 107	5 cr.	History 57 202	3 cr.
Political Science 84 105	3 cr.	Physics 82 108	5 cr.
(University of Minnesota)			
Chemistry 32 213	4 cr.	Biology 26 126	5 cr.
Economics 36 205	4 cr.	Chemistry 32 314	4 cr.
Geology 51 102	5 cr.	Economics 36 206	3 cr.
Practical Arts 85 101	3 cr.	English 38 302	3 cr.
Practical Arts 85 201	2 cr.	Practical Arts 85 202	2 cr.

Pre-Law

Admission to most law schools requires a four-year degree, generally in any field. It is possible to gain admission into certain law schools (an example is the Law School of the University of Wisconsin) after three years of college work, provided a student has excellent grades and a high L.S.A.T. score. Even in these schools, however, completion of a four-year degree is strongly encouraged.

Aside from the usual four-year degree requirement, prospective law students are required to take the Law School Admissions Test (L.S.A.T.). This is given four times a year, usually in November, February, April, and July. Forms and information may be obtained from your pre-law adviser.

Application to law schools must be submitted as early as possible, preferably between November and March of your final year of college work. Since admission to the better law schools is highly competitive, students are advised to apply to several law schools simultaneously.

All pre-law students at WSU-O are encouraged to join the Pre-Law Society, a campus organization which undertakes several projects during the year designed to familiarize pre-law students with the different phases of legal education. The Ralph E. Norem Library (room 426, Clow Faculty) has a collection of law school catalogs and other informative law school materials. The director of the pre-law program is available for more specific advice.

Students who complete three years of residence (98 credits) at WSU - Fond du Lac Campus and at WSU-O and complete all of the subject requirements for graduation (including a major) before entering law school, may submit 30 appropriate credits from law school courses and apply for a bachelor's degree to be granted by WSU-O.

For four-year B.S. and B.A. degree requirements, refer to UNIVERSITY ACADEMIC REQUIREMENTS.

Pre-Medicine

Students with high scholastic averages are occasionally admitted to medical schools after three years of preparation but the majority of medical school students have B.A. or B.S. degrees. Although a major is required for attaining the Bachelor's degree, the student is free to choose his major. The Pre-Med Club maintains a collection of medical school catalogs. Medical schools generally require the following courses as preparation for medical school:

- one year of general chemistry
- one year of organic chemistry
- one to two years of English
- one year of physics
- one year of general biology or zoology
- one semester of college mathematics (algebra and trigonometry)
- some require comparative anatomy or vertebrate embryology, and quantitative chemistry.

All medical schools require applicants to take the Medical College Admission test*. The scores of this are submitted with application in the fall of the year before entrance to medical school. The test is given in October and May. Four years are spent in medical school.

Students planning to obtain the B.A. or B.S. degree should consult the corresponding degree requirements. All students should choose a major no later than the first semester of the sophomore year. A typical first semester pre-medical schedule will include:

- Biology (course for majors)
- Mathematics
- English Composition
- Elective (Social Science, Humanities. Students strong in science take general chemistry.)
- Physical Education (only if planning B.S. or B.A. here)

*(Source: "Medical School Admission Requirements, U.S.A. and Canada," Association of American Medical Colleges.)

Mortuary Science

Under Wisconsin law, mortuary science students must take two years (60 sem. credits) at a college, and attend a mortuary science school. However, the mortuary science student is well advised to attain the B.S. or B.A. degree level either at this university or at a mortuary science school granting such degree.

Hospital Diploma Nursing Programs

The campus offers freshman courses for students enrolled in the Madison General Hospital School of Nursing. The work of the second and third years is completed at the Madison General Hospital School of Nursing.

First Semester		Second Semester	
English 38 101	3 cr.	English or Speech	3 cr.
Biology 26 101	4 cr.	Chemistry 32 102	4 cr.
Biology 26 215	3 cr.	Biology 26 216	3 cr.
Sociology 92 101	3 cr.	Psychology 86 201	3 cr.
Elective	2-3 cr.	Elective	4 cr.
Physical Education	1 cr.		<hr/>
	<hr/>		17 cr.
	16-17 cr.		

The campus offers freshman courses for students enrolled in the Mercy Medical Center School of Nursing. The work of the second and third years is completed at the Mercy Medical Center School of Nursing.

First Semester		Second Semester	
English 38 101	3 cr.	English 38 302	3 cr.
Biology 26 215	3 cr.	Biology 26 216	3 cr.
Chemistry 32 101	4 cr.	Chemistry 32 102	4 cr.
Sociology 92 101	3 cr.	Psychology 86 201	3 cr.
	<hr/>		<hr/>
	13 cr.		13 cr.

Pharmacy

Two years of pre-pharmacy training are required, usually followed by three years in a school of pharmacy. The following will fulfill the pre-pharmacy requirements of the University of Wisconsin Pharmacy School:

First Semester		Second Semester	
English 38 101	3 cr.	Elective	3 cr.
Chemistry 32 105	5 cr.	Chemistry 32 106	5 cr.
Math 67 161*	5 cr.	Biology 26 206	5 cr.
Biology 26 107	5 cr.		
Third Semester		Fourth Semester**	
Chemistry 32 221	4 cr.	Chemistry 32 213	4 cr.
Physics 82 107	5 cr.	Physics 82 108	5 cr.
Economics 36 205	3 cr.	Electives	9 cr.
Electives	3-6 cr.		

*At least one semester of college mathematics excluding Math 67-141 is required. Student who are recommended for Math 67-141 should take Math 67-141 the first semester and Math 67-161 the second semester. Math 67-261 (Calculus) is not required, but is strongly recommended for all pre-pharmacy students.

**At least 60 credits completed in two years.

Pre-Veterinarian

Students planning to apply to veterinary medical school should transfer to universities having veterinary schools after one or two years of pre-veterinary training. Because Wisconsin as yet has no veterinary school, application may be made to the state for payment to defray out-of-state tuition costs.

Applicants for veterinary school should inquire at the University Testing Center early in the fall semester of the sophomore year about the date and place of administration of the Veterinary Aptitude Test.

The schedule for pre-veterinary students at this university should follow the pre-pharmacy schedule, except that a semester of botany (Introduction to the Plant Kingdom) and speech (Fundamentals of Speech) should be scheduled in the sophomore year in place of economics and elective credits. For specific requirements, write the veterinary schools of your choice for current bulletins.

Four years of satisfactory work in a veterinary medicine school is required for the Doctor of Veterinary Medicine Degree (D.V.M.)

Sample Program Spreads

Pre-Business — Sample Spread

Freshman Year		Sophomore Year	
English Composition	3 cr.	Humanities	3 cr.
Laboratory Science	8 cr.	Social Sciences	3 cr.
Social Science	6 cr.	Economics I and II	6 cr.
Mathematics (67 108)	5 cr.	Accounting I and II	6 cr.
or Mathematics (67 103, 104)	6 cr.	Business Statistics	3 cr.
Speech	3 cr.	Mathematics (67 204)	5 cr.
Humanities	4-5 cr.	General Electives	6 cr.
Physical Education	2-cr.		
	<hr/> 32 cr.		<hr/> 32 cr.

Elementary Curriculum — Sample Spread

FRESHMAN YEAR

First Semester		Second Semester	
English 38 101	3 cr.	Art 22 101	2 cr.
Geography 50 117 or Geology 51 169	4 cr.	Biology 26 101	4 cr.
History 57 101 or 57 102	3 cr.	Education 11 101	2 cr.
Mathematics 67 012	0 cr.	Elective	2 cr.
Mathematics 67 111	2 cr.	English 38 112	3 cr.
Speech 96 111	3 cr.	Geography 50 111	3 cr.
Physical Education 77 101 or 77 111, 77 113, 77 114, or 77 121 to 77 143*	1 cr.	Physical Education 77 101 or 77 111, 77 113, 77 114, or 77 121 to 77 143*	1 cr.
	<hr/> 16 cr.		<hr/> 17 cr.

*Swimming may be substituted for one semester.

SOPHOMORE YEAR

Art 22 105 or Music 73 219 or Speech 96 161	2 cr.	Educ. Psychology 18 271	2 cr.
Art 22 228	2 cr.	Non-Western Culture course	3 cr.
English 38 225 or 38 226	3 cr.	History 57 202	3 cr.
Psychology 86 201	3 cr.	Music 73 315 or 73 316	2 cr.
History 57 201	3 cr.	Physical Science 80 101	4 cr.
Music 73 101	3 cr.	Sociology 92 101	3 cr.
	<hr/> 16 cr.		<hr/> 17 cr.

Secondary Curriculum — Sample Spread

FRESHMAN YEAR

First Semester		Second Semester	
English 38 101	3 cr.	Laboratory Science	4 cr.
Laboratory Science	4 cr.	Speech 96 111	3 cr.
Social Science	3 cr.	Humanities	3 cr.
Humanities	3 cr.	Education 11 101	2 cr.
Physical Education	1 cr.	Physical Education	1 cr.
Electives	0-3 cr.	Electives	0-4 cr.
	<hr/> 14-17 cr.		<hr/> 13-17 cr.

SOPHOMORE YEAR

Humanities	3 cr.	Social Science	3 cr.
Psychology 86 201	3 cr.	Educational Psychology 18 273	2 cr.
Electives (and possibly the completion of the mathe- matics requirement)	10-12 cr.	Electives	10-13 cr.
	<hr/> 16-18 cr.		<hr/> 15-18 cr.

Special Education Curriculum — Sample Spread

FRESHMAN YEAR

Art 22 101	2 cr.	Art 22 228	2 cr.
English 38 101	3 cr.	English 38 112	3 cr.
Natural Science	4-5 cr.	Education 11 101	2 cr.
Physical Education	1 cr.	Mathematics 67 012	0 cr.
Speech 96 111	3 cr.	Mathematics 67 111	2 cr.
Sociology 92 101	3 cr.	Natural Science	4-5 cr.
		Physical Education	0-1 cr.
		Psychology 86 201	3 cr.
	16-17 cr.		
			16-17 cr.

SOPHOMORE YEAR

Educational Psychology 18 271 or 18 273	2 cr.	Special Education 16 352	3 cr.
Humanities	2-3 cr.	Special Education 16 362	3 cr.
Mathematics 67 211	3 cr.	Special Education 16 355	3 cr.
Music 73 101	3 cr.	Special Education 16 370	6 cr.
Physical Education	0-1 cr.		15 cr.
Social Science	3-5 cr.		
Electives	0-4 cr.		
	16-17 cr.		

Sample Spread — Nursing

(for students planning to transfer to the WSU-O School of Nursing)

FRESHMAN YEAR

First Semester		Second Semester	
English Composition	3 cr.	Biology (Human Anatomy)	3 cr.
Physical Education	1 cr.	Physical Education	1 cr.
Biological Concepts	4 cr.	General Chemistry	4 cr.
General Chemistry	4 cr.	General Psychology	3 cr.
Principles of Soc.	3 cr.	Cultural Anthro	3 cr.
Total	15 cr.	Speech	3 cr.
		Total	17 cr.

SOPHOMORE YEAR

First Semester		Second Semester	
Social Science	3 cr.	English Composition	3 cr.
Humanities	3 cr.	Biology (Bacteriology)	5 cr.
Biology (Human Phys.)	3 cr.	Sociology of Family	3 cr.*
Social Psychology	3 cr.	Nsg. in Social Order	2 cr.*
Introduction to Philosophy or Ethics	3 cr.	Nutrition	2 cr.*
Total	15 cr.	Human Growth & Dev.	3 cr.*
		Total	18 cr.
		*These courses are offered at the Oshkosh Campus.	

ADMISSION TO SCHOOL OF NURSING

Students are admitted to the School of Nursing in the junior year. To qualify for admission to the School of Nursing, the applicant must complete all of the above courses with grades that average "C" or better. In addition to pre-nursing record, the applicant's record is reviewed for high school achievement, scores on ACT, health status and personal qualities essential for a professional nurse.

Financial Aids

Application

Entering freshmen who are residents of Wisconsin may obtain the appropriate application for financial aid from their respective high school counselors. Other freshmen, transfers, and continuing students should request applications from the Financial Aids Office, Wisconsin State University-Fond du Lac, Wisconsin, 54935.

Applications should be submitted prior to March 1. Late applicants will be considered for residual funds. Students are required to make a new application for each year that financial aid is desired.

In order to apply for financial aid, one must be accepted for admission or be a continuing student. Applicants must meet certain deadline dates to qualify.

In general, a student must establish financial need by completing a comprehensive, confidential financial statement. The only exceptions to this requirement are the Guaranteed Student Loan Program, the Student Assistant Program, and the Short Term Emergency Loan Program. The confidential statements are analyzed, and if need has been established, a proposal of aid, sometimes called a "package of aid", is offered to the student. The types of aid offered are determined by the criteria of the various programs, the amount of money available, the academic standing of the student, and the student's personal desire. A "package of aid" offered by one State University or Branch Campus can be transferred to any other institution of the State University System if the student later decides to transfer, and if the transfer is made before a certain date.

Grants and Scholarships

Wisconsin Honor Scholarship Program

Value: \$100-\$800

Eligibility: Highest ranking students as determined by local high schools from the top 10 per cent of their high school graduation class. (Each school is

granted a specific number of scholarships according to size to be used at Wisconsin State Universities.) These scholarships are available only to incoming freshmen and only for the freshman year. (The State of Wisconsin Higher Educational Aids Board awards these scholarships.)

Wisconsin Leadership And Need Scholarships

Value: \$100-\$1,000

Eligibility: Best qualified Wisconsin undergraduate resident applicants; based upon academic achievement and potential, and financial need.

Wisconsin Out-Of-State Scholarship

Value: Out-of-State tuition differential cost.

Eligibility: Best qualified applicants from other states.

Wisconsin Foreign Student Scholarship

Value: Out-of-State tuition differential cost and incidental fee.

Eligibility: Best qualified applicants not possessing U.S. citizenship.

Federal Educational Opportunity Grant

Value: \$200-\$1,000

Eligibility: Residents of the U.S. who demonstrate critical financial need.

Loans

Wisconsin State Loans

Value: Up to \$1,000 for undergraduates.

Eligibility: Student who is resident of Wisconsin and who has financial need.

Terms: Interest-free while student. Seven per cent interest on unpaid balance beginning nine months after termination of educational program. Up to ten years to repay with \$30 minimum monthly payments.

Wisconsin Guaranteed Loans

Value: Same as Wisconsin State Loans.

Eligibility: Student who is resident of Wisconsin.

Terms: Same as for Wisconsin State Loan if adjusted annual family income is less than \$15,000. Otherwise, interest begins accruing when student receives loan. (Loan applications available only from participating lenders.)

National Defense Student Loans

Value: \$100-\$1,000 for undergraduate students.

Eligibility: U.S. citizenship or permanent residence and demonstrated need.

Terms: Interest free while student remains in education program, 3% interest compounded annually on unpaid balance beginning nine months after termination of educational program. Up to ten years for repayment. Ten per cent forgiveness of principal amount for each year's full-time teaching service, up to five years, or 50% maximum. Cancellation is 15% per year for teaching in low income area schools or for teaching handicapped or retarded children. Up to 100%.

Emergency Loan Funds

A limited number of short-term loans in small amounts are made to students with immediate emergency need.

Work Opportunities

Federal College Work-Study Program

Value: Amount which can be earned is based on financial need and established hourly rate for work performed. A student in this program can work a maximum of 15 hours per week while school is in session, and 40 hours per week during vacation periods.

Eligibility: U.S. citizens, or permanent residents who have financial need.

Employment: A great variety of jobs on and off the campus.

Student Assistant Program

A program in which a student with a needed skill may be hired by one of the departments in the University, and is paid from the department's budget. A student is not required to establish a need to receive this type of aid. Interested students should contact the various departments or the financial aids office for information.

Other Programs

In addition to the above basic programs, many other types of aid are available to students and their families. An example is the GI Bill available to those who have served in the armed forces for more than six months. There also is a state of Wisconsin veterans aid program that will help finance an education. The War Orphans Benefits are available to many students whose fathers were killed in service.

Social Security, Vocational Rehabilitation, and schooling under the provisions of the Manpower Training and Development Act are other examples of sources of educational funds. Anyone interested in locating sources of educational funds should contact all of their local, state, and federal agencies for information. Many of these agencies are little known sources of educational aid.

FEES*

Fees

Wisconsin Residents	FULL TIME	Non-Resident
Per Semester	(12 or more credits)	Per Semester
None	Tuition	\$685.00
\$182.00	Incidental Fee	None
5.00	Health Fee	5.00
18.00	Activity Fee	18.00
15.00	Student Center Fee	15.00
\$220.00	Total Fees	\$723.00
Wisconsin Residents**	PART TIME	Non-Resident
Per Semester	(11 credits or less)	Per Semester
None	Tuition	per credit \$58
\$16.00 per credit	Incidental Fee	
12.00 (4 credits or less, N/C)	Activity Fee	\$12.00 (4 credits or less, N/C)
10.00 (4 credits or less, N/C)	Student Center Fee	10.00 (4 credits or less, N/C)
\$2.50	Student Health Fee	\$2.50

*Fees are subject to revision without published notice.

**Qualification as Wisconsin Resident.

Fee Payments

A student shall pay required fees by choosing one of the following options:

1. Payment of 100% of fees at time of registration.
2. Payment of the first installment of the partial payment plan as a minimum at time of registration.

Special Fees

For late registration \$ 10.00

Library charges are levied for overdue books and lost books.

Chemistry breakage fees are billed the student at the end of the semester. There are no laboratory fees other than payment for breakage.

Students may not re-enroll, register at any Wisconsin State University, be accorded withdrawal privileges, be issued transcripts, nor be granted graduation diplomas until all charges and fees are paid.

The music department maintains a part-time applied faculty with whom an arrangement is made in any instrument and vocal area whereby the student receives one private lesson per week for 15 weeks (minimum) for one credit. The fee for these lessons is \$15.00 per field of endeavor.

Some physical education courses require lockers, towels, and/or swim suits for which a charge is made.

The art department charges an art material fee for specific courses. Certain art courses will require field trips. The transportation costs of these trips will be assessed to the individual participating student.

Students enrolled in certain geography and geology courses will be required to pay for transportation costs of field trips. Collection is usually made in class. Students may arrange their own transportation with consent of instructor.

A parking fee, currently \$2.00, is charged for those who desire to park on university property.

Field Trip Costs

In addition to the special fees mentioned above, there may be other courses requiring additional fees. It is suggested the student consult his advisor on this matter. Trips must be authorized by the office of The Dean. The cost of transportation, room, board and insurance must be paid by the student.

Veterans Training

The campus is approved by the Veterans Administration to give instruction to veterans when the course available meets the needs of the applicant.

Veterans should consult the Veterans Administration before enrolling since the Veterans Administration determines the eligibility of veterans for educational benefits.

A veteran whose service was performed since the outbreak of the Korean War is entitled to educational benefits under Public Law 550.

Supplemental assistance from the Veterans Recognition Board in Madison is available for veterans. This board administers a fund set up by the State to aid veterans native to Wisconsin.

Public Law No. 634 was established in 1956 for the purpose of providing educational benefits to any child of a veteran who died of a disease or injury incurred or aggravated in line of duty in the Armed Forces during World War I, World War II, or the Korean Conflict. The parent or guardian of a person for whom a program of education is sought under this law shall submit an application to the Veterans Administration. The eligible "child" will receive a monthly allowance and will pay his own tuition fees. Consult the Office of Educational Services on any questions concerning Veterans Administration Educational Benefits.

Schedule of Fee Refunds

Refund of fees for the regular term, Saturday courses, Graduate courses, and the summer sessions, are based upon the week the student officially with-

draws from school. The refund schedule below covers tuition, incidental fee, Student Union fee, activity fee, and health fee. Note that special fees are not refundable to withdrawing students.

In determining withdrawal date, the University will use the date the student notifies the school of the withdrawal; or if the student fails to notify the school and is otherwise unable to verify date of withdrawal the date of the request will be used to determine the refund.

1. Regular Academic Year

The minimum loss to students seeking refunds is \$50. Refund percentages listed below apply when the deduction is in excess of the \$50 minimum.

- 100% during the first week of class schedule (less \$50.00)
- 80% during the second week of classes
- 60% during the third and fourth week of classes
- 0% beginning with the fifth week of classes.

2. Summer Session

The minimum loss to students seeking refunds during the summer session is \$10. Refund percentages listed below apply when the deduction is in excess of \$20.

- 100% during the first week of the class schedule (less \$20)
- 75% during the second week of the class schedule
- 0% beginning with the third week of the class schedule

Students who enter extended (at least one year) active federal military service by enlistment, draft, or otherwise, shall receive either a full refund of fees or course credits for the term.

Student Services

Testing

The campus testing service serves both the individual student and the campus. This program provides several direct services to students by making available measures of aptitude, interest, and personality to those who wish to examine their academic and vocational goals.

In addition to testing services offered on the Fond du Lac Campus, the testing services at Wisconsin State University-Oshkosh are available to Fond du Lac students. Arrangements for use of the Oshkosh services can be made through the Office of Student Services.

Health Service

The services of a registered nurse are available in the Health Office.

It is the student's responsibility to provide for personal medical care. A list of physicians and medical facilities is available in the Health Office.

A comprehensive and reliable Student Health Insurance Plan is offered to the students during registration. Each student will be encouraged to carry this insurance, unless covered by the insurance plan of his parents.

Student Housing

Although the Fond du Lac Campus does not have residence halls, the Office of Student Services will provide students with a list of registered rooming houses.

Men and women students of the campus are not permitted to room in the same house.

Counseling Service

Counseling service is one of the "student services" offered to ALL STUDENTS at the campus. Its objective is to help students grow in their understanding of themselves and their society so that they may assume responsibility for their decisions and grow in their ability to understand and accept the results of their choices. The counseling program operates in accordance with the philosophy that modern life and contemporary education have grown so complex that every student, in the course of his campus experience, will encounter some problems with which he could benefit from the help of an experienced, understanding person.

The primary responsibility of the counseling service staff is to provide students with assistance in working out academic, vocational, and personal problems. A related function is to give individual attention to all students who initiate withdrawal from the campus and to those persons who request assistance when they apply for readmission to the campus. When other services are needed, the counselors provide assistance to the students in obtaining these services. Students can obtain assistance by appointment. However, this service can also be obtained on a "walk-in" basis.

Academic Services

Library Service

Many students find the quiet, aesthetically beautiful library a convenient place to study. A permanent staff is eager to assist students in finding the

information they seek. A rapidly growing collection of more than 15,000 volumes, selected especially for the freshman-sophomore level college student is a medium through which students can broaden and supplement their classroom experience. This collection is supplemented by microfiche and microfilm holdings of books and periodicals. To add greater dimension, the resources of the Forrest R. Polk Library at WSU-Oshkosh are available for both direct and inter-library loan to students and faculty.

Audio-Visual Service

Information concerning communications devices, materials, and services is available at the library. Assistance in providing materials for classroom-instructional use, the scheduling of audiovisual facilities and equipment, advice concerning the operation of equipment, and film rental service aid is available.

Parking Facilities

The Fond du Lac Campus has parking areas for students and staff located on the perimeter of the campus and operated on a purchase permit basis. Parking regulations are strictly enforced, and violators are subject to ticketing, fines, and possible revocation of campus parking privileges.

For visitors to the campus, courtesy parking permits are available through the general office. Such permits are valid for the period of time appearing on the permit.

Activities

Athletics

Athletic activities are under the general direction of the faculty and take two forms: intercollegiate athletics and intramural athletics.

In the area of intercollegiate athletics the program includes basketball, tennis, soccer, golf, cross-country, and wrestling. Fond du Lac is a member of the Wisconsin Collegiate Conference.

Intramural athletic programs have been established for both men and women. Activities include touch football, soccer, volleyball, basketball, badminton, softball, tennis, golf, and gymnastics. Recreation programs in swimming (provided at the YMCA), modern dance, archery, and trampoline also are offered.

Forensics-Dramatics

Programs in forensics and dramatics are organized through the speech department, and offer students a wide range of experiences.

Music Organizations

Band and choir are offered as credit courses. Membership is open to anyone with previous experience. The campus has complete music facilities, including a large rehearsal room, practice rooms, and instruments the students may use while enrolled in band. Regular concerts are presented. The prep band performs at basketball games.

Student Publications

A student newspaper is published biweekly, and a yearbook is published at the end of the school year depicting the important events of the year.

Student Government

Student Government is an organization through which students can participate in the formulation of rules, regulations, and policies in the area of student affairs. It is dedicated to promote the general interests which are of mutual concern to students, faculty, and administration.

Student Center

The student center is the cultural-social center of the campus. It sponsors a variety of activities administered by the director of student programs, with the assistance of a student committee.

The food service in the Student Center is open to all students and their guests. Normal operating hours during the school year are from 8:00 a.m. to 4:00 p.m., Monday through Friday. The food service features short order items such as hot dogs, hamburgers, sandwiches, malts, and home-made bakery. A plate lunch special is served daily.

Special Interest Groups

It is expected that students will form special interest groups which will become part of the overall university community. Some of these will be professionally, culturally, socially, or service oriented.

Description of Courses

Course offerings listed in this section are those that usually are taken during a student's first two years of university work. Most of the courses listed are offered each semester, some on an alternating semester basis, and some when the need is present.

To help students in long range programming, courses usually offered on an alternating semester basis are marked: (1) usually offered first semester only or (2) usually offered second semester only.

Under each subject area heading, a listing of major and minor requirements appear as established for WSU-Oshkosh.

All course numbers have five digits. The first two identify the department and the last three identify the course. Course numbers are assigned (last three digits) according to the following key: (This keying system is a new one recently established for the state university system. For your reference needs, equivalent, old numbers appear in parentheses after the new course numbers.)

000-099 non-credit courses	300-399 primarily junior courses
100-199 primarily freshmen courses	400-499 primarily senior courses
200-299 primarily sophomore courses	

Following each course title in this section, one or two sets of numbers will be found. The first number (outside the parentheses) indicates the number of credit hours which the course carries. The second set of numbers, when they appear, (in parentheses) indicates the division of time between lecture and laboratory. The first number within parentheses indicates the number of lecture or problem hours, and the second indicates the number of laboratory or shop hours. For example, in a science course listed 5 cr. (3+4), the 5 indicates the number of credits hours and the numbers in parenthesis indicate three hours of lecture and four hours of laboratory.

ANTHROPOLOGY

See Sociology

ART AND ART EDUCATION

MAJOR (Secondary Education—B.A.E. degree in Art Education) 58 credits to include 22 104, 22 130, 22 131, 22 134, 22 208, 22 209, 22 234, 22 354, 22 356 and 33 elective credits in art including four credits in art history.

MAJOR (School of Letters and Science, B.S. degree in art) 60 credits to include: 22 104, 22 130, 22 131, 22 134, 22 208, 22 209, 22 234, and 39 elective credits in art including at least four credits in art history.

MAJOR (School of Letters and Science, B.A. or B.S. degree-general courses)
Emphasis in art history; 34 credits to include; 26 credits in art history, and eight credits in studio skills courses.

MINOR (Elementary and Secondary Education) 24 credits to include: 22 104, 22 130, 22 131, 22 134, 22 208, 22 209, 22 355 and four elective credits in art.

22 101 (22 101) Drawing and Color (1 + 3) 2 cr.
A basic course in the elements of art structure and the fundamental principles of design. Color theory, drawing, and perspective. (Usually offered first semester only.)

22 104 (22 104) Drawing and Composition (0 + 6) 3 cr.
The drawing and analysis of pictorial composition applying the elements and principles of art.

22 105 (22 105) Understanding the Arts (2 + 0) 2 cr.
A course designed to increase understanding of painting, sculpture, architecture, and allied arts. Lectures, discussions, and museum visits.

22 130 (22 130) Design I (0 + 6) 3 cr.
An inquiry into the principles of two-dimensional art governing the organization of the visual elements and the sources and terms of personal expression. Prerequisite: 22 104. (Usually offered second semester only.)

22 131 (22 125) Three Dimensional Design (0 + 6) 3 cr.
An inquiry into the principles of three-dimensional art governing the organization of the plastic elements in space. Majors and minors only. (Usually offered first semester only.)

22 134 (22 134) Figure Drawing I (0 + 6) 3 cr.
Drawing from the model, figure composition and anatomy. Majors and minors only. (Usually offered second semester only.)

22 241 (22 341) Watercolor I (1 + 3) 3 cr.
The principles and techniques of water color as a medium of expression. Prerequisite: 22 104. (Usually offered first semester only.)

22 275 (22 375) Painting I (1 + 3) 3 cr.
Introduction to materials, and techniques of opaque painting media. Emphasis on problems of drawing and composition. Prerequisite: 22 104. (Usually offered second semester only.)

BIOLOGY

All students majoring in biology are required to take chemistry 32 105 and 32 106, plus mathematics 67 103 and 67 104, or 67 108, or the equivalent. Other requirements are listed below:

BIOLOGY MAJOR: General sequence either for students planning to teach or for students in the School of Letters and Science. A minimum of 36 credits to include: 26 107, 26 121, 26 126 or 26 127 or both, 26 303, 26 319, or 26 345, plus upper division course electives to complete the major.

BIOLOGY MAJOR: Botany emphasis for students in the School of Letters and Science only. A minimum of 36 credits to include: 26 107, 26 121, 26 303, 26 345, plus upper division course electives to complete the major.

BIOLOGY MAJOR: Zoology emphasis for students in the School of Letters and Science only. A minimum of 36 credits to include: 26 107, 26 126 or 26 127 or both, 26 303, 26 319, plus upper division course electives to complete the major.

BIOLOGY MINOR: A minimum of 25 credits to include: 26 107, 26 121, 26 126 or 26 127 or both, 26 319 or 26 345, plus 5 credits of electives if 26 126 and 26 127 are not both taken. Physical education majors with a minor in biology should substitute 26 211 and 26 212 for 26 319.

MICROBIOLOGY AND PUBLIC HEALTH MAJOR: 37 credits to include: 26 107, 26 303, 26 309, 26 312, 26 313, 26 314, 26 339, 26 341, 26 321 or 26 354, and 26 450.

All majors are required to take one year of general chemistry with laboratory plus mathematics 67 103 and 67 104, or 67 108, or the equivalent. Additional courses in organic chemistry, biochemistry and physics are strongly recommended.

Note: The requirement for 26 107 may be waived for majors or minors who have completed 26 101 with a grade of "A" or "B," or consent of the chairman, or who pass an attainment examination.

26 101 (26 103) Biological Concepts (3 + 3) 4 cr.
An introduction to the biological sciences. Structure and function of cells and organisms; reproduction, adaptation, evolution, ecology, populations. Open to all whose curriculum does not require a major's course. Students cannot receive credit for both 26 101 and 26 107.

26 107 (26 107) Principles of Modern Biology (4 + 3) 5 cr.
Major biological concepts from molecular to population levels. Laboratory experiments demonstrate analytical and descriptive approaches to biology and involve collection and interpretation of experimental data. Open to majors, minors and those allied fields specifying a major's course. Prerequisites: None. Previous or concurrent general chemistry recommended. Students cannot receive credit for both 26 101 and 26 107. (Usually offered first semester only.)

26 121 (26 201) Survey of the Plant Kingdom (3 + 4) 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. Prerequisites: 26 101 or 26 107. (Usually offered second semester only.)

26 126 (26 206) Vertebrate Biology (3 + 4) 5 cr.
An introduction to the study of vertebrate animals considering their structure, evolution, ecology and special adaptations. Prerequisites: 26 101 or 26 107. (Usually offered second semester only.)

26 127 (26 307) General Invertebrate Zoology (3 + 4) 5 cr.
Structure, function, evolution, ecology of major invertebrate groups. Laboratory study of representative species. Prerequisites: 26 101 or 26 107. (Usually offered first semester only.)

26 215 (26 315) Human Anatomy (2 + 2) 3 cr.
A study of the fundamental structure and organization of the organs and systems of the human body. Prerequisites: 26 101 or 26 107. (Primarily for Nursing.) (Usually offered second semester only.)

26 216 (26 316) Human Physiology (2 + 2) 3 cr.
A study of the fundamental chemical and physical processes of the living organism as

they relate to organs and systems of the human body. Prerequisites: 26 101 or 26 107. (Primarily for Nursing.) (Usually offered first semester only.)

26 309 (26 509) Bacteriology (3 + 4) 5 cr.
Preparation of culture media; isolation and propagation of bacteria, molds and yeasts; morphological characteristics; physiology; relationships to mankind; examination of food, milk and water; identification of unknowns. Prerequisites: 26 107 and one year of general chemistry with laboratory. (Usually offered second semester only.)

BUSINESS ADMINISTRATION

ACCOUNTING AREA: 42 credits of general undergraduate degree requirements, 35 credits of standard business administration core, plus required: 28 301, 28 303, 28 306, 28 308, 28 322, 28 401, 28 403, 28 404, 28 408; also 15 credits in business administration and economics; and 9 credits of electives not in business or economics. Students with an accounting area are eligible to take the CPA examination upon graduation.

FINANCE AREA: 42 credits of general undergraduate degree requirements, 35 credits of standard business administration core, plus required: 28 333, 28 334, 28 431, 36 401, 36 305, 36 329, 36 331; also 12 credits in business administration and economics; and 18 credits of electives not in business or economics.

MANAGEMENT AREA: 42 credits of general undergraduate degree requirements, 35 credits of standard business administration core, plus required: 28 361, 28 451, 28 452, 36 409, 36 329, 36 331; also 15 credits of business or economics subjects; and 18 credits of electives in subjects other than business and economics.

MARKETING AREA: 42 credits of general undergraduate degree requirements, 35 credits of standard business administration core, plus required: 28 373, 28 376, 28 472, 28 473, 36 329, 36 331; also 15 credits in business administration and economics; and 18 credits of electives not in business and economics.

MANPOWER MANAGEMENT AREA: 42 credits of general undergraduate degree requirements; 35 credits of standard business administration core; plus required: 28 361, 36 321, 36 329, 36 331, 86 363, and two of the following: 28 362, 28 363, 28 364; also 9 credits in business administration and economics and 6 credits in psychology, sociology, or anthropology, as approved by the Director of Advisement; and 15 credits of electives.

28 201 (28 301) Accounting I (3 + 0) 3 cr.
Principles, concepts, and procedures of financial accounting (for investors, creditors, and other interested parties) essential to the proper preparation, understanding, and interpretation of accounting information; emphasis is on the usefulness of accounting data for control and evaluation of economic activity. Prerequisite: Sophomore standing. (Usually offered first semester only.)

28 202 (28 302) Accounting II**(3 + 0) 3 cr.**

The usefulness of accounting to management is stressed with particular attention given to the role of managerial accounting in the decision control processes of business enterprises. Includes the study of cost systems, budgeting, cost distribution, capital budgeting, and profit-volume analysis. Prerequisite: 28 201: (Usually offered second semester only.)

CHEMISTRY

MAJOR (Professional): Designed for students who wish to meet the minimum requirements of the American Chemical Society for professional training, leading to the B.S. in Chemistry degree.

- Chemistry requirements: 44 credits minimum¹ to include 41 credits of specified courses (See following table) plus one of the following advanced courses: 32 403, 32 465, 32 498, 32 499. If either of the Special Problems courses (32 498 or 32 499) is selected, one additional advanced course is to be selected from 32 403, 32 416, 32 422, 32 465, 32 482.
- Other requirements: (See the following table).

MAJOR (Liberal Arts): Designed for those students with more diversified interests by allowing a broader choice of electives.

- Chemistry requirements: 40 credits minimum¹. (See following table).
- Other requirements: (See following table).

MAJOR (Secondary): Designed for students planning to enter the secondary education program in preparation for teaching high school chemistry.

- Chemistry requirements: 34 credits minimum¹. (See following table).
- Other requirements: (See following table).

MINOR:

- Chemistry requirements: 23 credit minimum¹. (See following table).
- Other requirements: None.

MAJOR AND MINOR REQUIREMENTS

Course No.	Name	(Lec. + PH) + Lab	Credits	Profes- sional Major	Liberal Arts Major	Second- ary Major	Minor
32 105	General ¹	(4 + 3)	5	X	X	X	X
32 106	General + Qual. ¹	(4 + 3)	5	X	X	X	X
32 216	Organic	(3 + 3)	4	X	X	X	X ²
32 221	Quantitative Anal.	(3 + 6)	5	X	X	X	X
32 318	Organic	(3 + 6)	5	X	X	X	X ²
32 347	Physical	(3 + 0)	3	X	X	X	
32 348	Physical Lab	(0 + 3)	1	X	X	X	
32 349	Physical	(3 + 0)	3	X	X	X	
32 351	Physical Lab	(0 + 6)	2	X	X		
32 421	Instrumental	(2 + 3)	3	X	X	X ²	
32 461	Inorganic	(3 + 0)	3	X	X	X ²	
32 463	Inorganic Lab	(0 + 3)	1	X			
32 490	Seminar ⁴	(1 + 0)	0 or 1	X	X	X	
				41	40	34	24

ELECTIVES

Course No.	Name	(Loc. + PH) + Lab	Credits	Professional Major	Liberal Arts Major	Secondary Major
32 302	Biochemistry	(3 + 4)	4			
32 381	Chemical Literature	(1 + 0)	1			
32 403	Qual. Organic Analysis	(1 + 6)	3			
32 416	Advanced Organic	(2 + 0)	2			
32 422	Advanced Analytical	(2 + 0)	2	SEE		
32 465	Radiochemistry	(3 + 3)	4	PROFESSIONAL		
32 482	Chemical Computations	(2 + 3)	3	REQUIREMENTS		
32 498	Special Problems	(0 + 3) or (0 + 6)	1 or 2	LISTING		
32 499	Special Problems	(0 + 3) or (0 + 6)	1 or 2			

OTHER REQUIREMENTS

67 171	Calculus I	(5 + 0)	5	X	X	X
67 172	Calculus II	(5 + 0)	5	X	X	X
67 273	Calculus III	(3 + 0)	3	X	X	X
82 109	Physics	(4 + 2)	5	X	X	X
82 110	Physics German or Russian [†]	(4 + 2)	5	X	X	X

32 101 (32 101) General, Organic and Biochemistry (3 + 3) 4 cr.

Inorganic and theoretical chemistry covering atomic structure, gases, liquids and solids, reactions, solutions and colloids, pH, electrochemistry and radiochemistry. The following topics in organic chemistry will also be discussed: hydrocarbons, and their halogen derivatives, alcohols and ethers. Chemistry 101 with 32 102 is designed to be a terminal course sequence to meet the needs of students desiring or required to have one year of chemistry with an organic and biochemistry emphasis. Prerequisite: None. (Usually offered first semester only.)

32 102 (32 102) General, Organic and Biochemistry (3 + 3) 4 cr.

A continuation of 32 101 covering aldehydes and ketones, carboxylic acids and their derivatives, and amines. The following topics in biochemistry will also be covered: carbohydrates, lipids, proteins, nucleic acids, enzymes and metabolism. Prerequisite: 32 101 with a minimum grade of C. (Usually offered second semester only.)

32 105 (32 105) General Chemistry (4 + 3) 5 cr.

Fundamental laws and concepts of chemistry to include atomic theory, atomic and electronic structure, chemical bonding, mole concept, nomenclature, stoichiometry, status of matter, formulas and equations, solutions and colloids. A foundation course with greater emphasis on the theoretical and mathematical aspects of chemistry than in 32 101. Designed for students taking chemistry beyond the first year course. Prerequisite: High school chemistry (or consent of department) and credits or concurrent enrollment in mathematics 67 103 or 67 108. (Usually offered first semester only.)

32 106 (32 106) General Chemistry with Qualitative Analysis (4 + 3) 5 cr.

A continuation of 32 105 to include kinetics and chemical equilibrium, thermochemistry, electrochemistry, nuclear chemistry, molecular structure, chemistry of metals and selected non-metals. Laboratory to include qualitative analysis. Together with 32 105, constitutes the foundation course for further course work in chemistry. Prerequisite: 32 105. (Usually offered second semester only.)

32 213 (32 313) Organic Chemistry (non-majors) (3 + 3) 4 cr.

The fundamental laws and theories of organic chemistry will be stressed. Reactions of aliphatic and aromatic hydrocarbons and their halogen, oxygen and nitrogen derivatives will be studied in conjunction with their mechanisms. The laboratory will provide practice in basic separation and purification techniques as well as the actual preparation of organic compounds. Prerequisites: 32 106 or 32 109 with a grade of C or better, or consent of instructor. (Usually offered second semester only.)

32 221 (32 321) Quantitative Analysis (3 + 6) 5 cr.

Emphasis on ionic solution equilibria as applied to analytical chemistry. Specifically, statistical analysis of data, theoretical principles of solubility, acid-base, redox and complex equilibria discussed stressing calculations involving system constants and species concentrations. Laboratory techniques to include gravimetric, volumetric, potentiometric and colorimetric methods with stress on quantitative determinations of inorganic and organic species and system constants. Prerequisites: 32 106 or 32 109 with a grade of C or better or consent of instructor. (Usually offered first semester only.)

EARTH SCIENCE

(See Geology)

ECONOMICS

MAJOR: 34 credits to include 36 205, 36 206, 36 210, 36 329, 36 331, and courses to be selected from at least four areas from Groups 3 through 11.

Only one of the following courses may be counted toward the 34 credit required for majors: 36 106, 36 311 (36 511), and 36 349 (36 549).

Mathematics Requirement for a Major in Economics: 67 171, or 67 204. Both of these mathematics courses have prerequisites of 61 104 or 67 108, or a minimum of 3½ years of high school mathematics, and a satisfactory score on the Mathematics Placement Examination.

If 36 205, 36 206, and 36 210 have not been completed by the start of the junior year, the student is advised to take them in the first semester he is eligible to do so.

MINOR: 22 credits to include 36 205, 36 206, 36 329, 36 331.

Though the following are business administration courses, they and six credits of other professional courses may be taken by economics majors as electives to count toward the 128 credits required for graduation but not toward the 34 credits required for majors): 28 201, 28 202, 28 321, 28 322, 28 331, 28 361, 28 371.

36 106 General Economics (3 + 0) 3 cr.

A course for freshmen only: analyzes major current issues in the American economy after a historical survey of the theories and institutions of capitalism. Topics discussed include causes of poverty and alternative policies designed to alleviate low incomes in America. Non-freshmen who desire an economics course are suggested to select 36 205. (Usually offered second semester only.)

36 205 (36 305) Principles of Economics I (3 + 0) 3 cr.
Basic features of the American economy; supply, demand and the price system; distribution of income; government expenditures and taxation; national income analysis; business fluctuations and the control of aggregate demand; fiscal and monetary policy; money and banking. (Usually offered first semester only.)

36 206 (36 306) Principles of Economics II (3 + 0) 3 cr.
Theory of demand and consumer behavior; theory of the firm and market structure; functional distribution of income; international economic relations; problems of underdeveloped areas; comparative economic systems. Prerequisite: 36 205 or consent of department. (Usually offered second semester only.)

36 210 (36 310) Economic and Business Statistics (3 + 0) 3 cr.
Sources, classification, tabulation, analysis and interpretation of economic and business data; averages, dispersion, probability, estimation, hypothesis testing, correlation, index numbers and time series. Prerequisite: 67 104 or 67 108. Statistics courses offered in other areas do not in all cases substitute for this course and may result in loss of credit.

EDUCATION

11 101 (11 101) Orientation to Public Education (2 + 1) 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 implications for teachers, curricula, and physical facilities. Laboratory experiences are required in connection with this course.

18 271 (18 371) Child Growth and Development (2 + 1) 2 cr.
A study of the physical, mental, social, emotional and moral development of the child. The personality development and the adjustment of the child within the family, school and community. Opportunity is provided for the observation and participation in community child groups. Prerequisite: Psychology 86 201, previously or concurrently elected. Admission to Teacher Education required for all students in the School of Education. (Usually offered second semester only.)

18 273 (18 373) Adolescence: Its Characteristics and Problems (2 + 1) 2 cr.
The transition from childhood to adulthood. A study of the youth's problems of adjustment to changes within himself that are physical, physiological, mental, emotional, and social in nature. Observation and participation in community youth groups are required. Prerequisite: Psychology 86 201, previously or concurrently elected. Admission to Teacher Education required for all students in the School of Education. (Usually offered second semester only.)

ENGLISH

MAJOR: 35 or 36 credits, in addition to composition, distributed as follows:

I. Required Courses (18 cr.): 38 211 (38 311), 38 212 (38 312), 38 213 (38 313), 38 214 (38 314 (38 541), and 38 347 (38 547).

II. Two courses (6 cr.) in English literature before 1700 required, one from each of the following groups:

Group A — 38 546 (38 546), 38 448 (38 548), 38 551 (38 551), and 38 355 (38 555).

Group B — 38 336 (38 536), 38 544 (38 544), 38 353 (38 553), 38 356 (38 556), and 38 360 (38 560).

III. Three courses (9 cr.), at least one in English literature and one in American literature, after 1700, one from each of the following groups:

Group A — 38 599 (38 559), 38 562 (38 562), 38 563 (38 563), and 38 573 (38 573).

Group B — 38 542 (38 542), 38 564 (38 564), 38 568 (38 568), 38 569 (38 569), 38 374 (38 574), 38 375 (38 575), 38 577 (38 577), and 38 579 (38 579).

Group C — 38 223 (38 323), 38 331 (38 531), 38 333 (38 533), 38 365 (38 565), 38 572 (38 572), 38 376 (38 576), and 38 578 (38 578).

IV. One additional (2-3 cr.) course.

MINOR: 24 credits, in addition to composition, distribution as follows:

I. Required Courses (15 cr.): 38 211 (38 311), (38 212 (38 312), 38 213 (38 313), 38 214 (38 314), and 38 347 (38 547).

II. At least three courses (9 cr.) distributed as follows: one course in English literature, one course in American literature, one freely selected course.

38 101 (38 101) English Composition (3 + 0) 3 cr.
A basic course to train students in correct and effective use of English. Emphasis on sentence and paragraph construction. Writing of exposition and informal argument chiefly stressed. Study of models. A student who receives a grade of "A" in this course completes his composition requirement.

38 112 (38 112) English Composition (3 + 0) 3 cr.
Open only to freshman students in elementary education registering **after June, 1968**. A continuation of the study of forms of writing, particularly analytical; study of phases of the English language; study of models; special problems. Prerequisite: 38 101. (Usually offered second semester only.)

38 211 (38 311) English Literature (3 + 0) 3 cr.
A survey of the development of English literature from Beowulf to 1780. The basic purpose of the course is to prepare English majors and minors for the advanced literature courses. As a means of developing the student's powers of appreciation, it is a foundation for both specialized literature courses and leisure reading. Prerequisites: 38 101 or 38 110; or 38 112. (Usually offered first semester only.)

38 212 (38 312) English Literature (3 + 0) 3 cr.
A survey of the development of English from the pre-Romantics to the writers of the present. Prerequisite: 38 211. (Usually offered second semester only.)

38 213 (38 313) American Literature (3 + 0) 3 cr.
A survey of the development of American literature beginning with the colonial period and continuing to 1865. A foundation course for advanced study in American literature. Prerequisites: 38 101, or 38 110; or 38 112. (Usually offered first semester only.)

38 214 (38 314) American Literature (3 + 0) 3 cr.
A general survey of the development of American literature covering the various forms of literature between 1865 and the contemporary period. Prerequisite: 38 213. (Usually offered second semester only.)

38 225 (38 325) Introduction to English Literature (3 + 0) 3 cr.
(for non-majors or non-minors) A study of modern English literature and the relevance of the older English literature to modern life. Recommended for students who do not intend to major or minor in English to satisfy general education literature requirements.

38 226 (38 326) Introduction to American Literature (3 + 0) 3 cr.
(for non-majors or non-minors) A study of modern American literature and the relevance of the older American literature to modern life. Recommended for students who do not intend to major or minor in English to satisfy general education literature requirements.

38 227 (38 327) Introduction to World Literature (3 + 0) 3 cr.
(for non-majors or non-minors) A study of modern world literature and the relevance of the older world literature to modern life. Recommended for students who do not intend to major or minor in English to satisfy general education literature requirements.

FOREIGN LANGUAGES AND LITERATURES

The Placement of Entering Students:

1. Students with no previous experience in the language elected will take 101.
2. Students with high school units in a foreign language, who wish to continue in the same language, must take a placement exam, administered during the summer for entering students and during the programming periods for continuing students.
3. High school credits in a foreign language do not give college credit.
4. Students entering with transferring college language credits must confer with the department to determine acceptance of the credits toward their program at WSU-O.

Foreign Language Requirements for the Bachelor of Arts Degree:

1. A minimum of two years of one foreign language at the university level must be completed if taken without high school background in the language selected: 101, 102, 201, 202 (14 credits).
2. With a high school background in the language selected, the following reduced requirements will be in effect:
 - A. If enrollment is in 102, 3 semesters: 102, 201, 202 (10 credits).
 - B. If enrollment is in 201, 3 semesters: 201, 202 and one course on the 300 level (9 credits).
 - C. If enrollment is in 202, 2 semesters: 202 and one course on the 300 level (6 credits).
 - D. If enrollment is in a course on the 300 level, 2 semesters: two courses on the 300 level (6 credits).

MAJOR IN FRENCH, GERMAN OR SPANISH: 28 credits above 102. Residence requirement: at least 12 credits of advanced courses.

1. Students who take 101 and 102, and those who begin college work with 201, must earn a total of 10 credits in 201, 202, 205, and 206, and 18 credits in advanced courses.
2. Students who begin college work with 202 must earn a total of 7 credits in 202, 205, and 206, and 21 credits in advanced courses.
3. Students who begin college work with 205 must earn a total of 4 credits in 205 and 206, and 24 credits in advanced courses.
4. Minimum course requirements above 206 for a degree in the School of Education:
 - a. French: 303, 304, 312, 315, 318; one additional literature course or 330.
 - b. German: 301, 304; 312 or 314; 315, 318; one additional literature course or 314 or 330.
 - c. Spanish: 2 courses in Literature; 307, 312; 2 additional courses.
Note: Students must earn 2 credits in Teaching of Foreign Languages (14 347).
5. Minimum course requirements above 206 for a degree in the School of Letters and Science:
 - a. French: two from 303, 304, 312; 315 and 318; any 2 additional courses.
 - b. German: two from 301, 304, 312, 314; 315 and 318; any 2 additional courses.
 - c. Spanish: two from 301, 304, 307, 312; two from 315, 318, 320, 325; any 2 additional courses.

MINOR IN FRENCH, GERMAN, SPANISH OR RUSSIAN: 16 credits above 102. Residence requirement: at least 6 credits of advanced courses.

1. Students who take 101 and 102, and those who begin college work with 201 must earn a total of 10 credits in 201, 202, 205 and 206, and 6 credits in advanced courses.
2. Students who begin college work with 202 must earn a total of 7 credits in 202, 205 and 206, and 9 credits in advanced courses.
3. Students who begin college work with 205 must earn a total of 4 credits in 205 and 206, and 12 credits in advanced courses.
4. Minimum course requirements above 206 for a degree in the School of Education:
 - a. French: 303 and one of the following: 315, 318, 330.
 - b. German: 301 or 304 and one of the following: 314, 315, 318, 330.
 - c. Spanish: 307 or 312 and one of the following: 315, 318, 320, 325.
 - d. Russian: one of the following: 301, 304, 312; and 315 or 318.

5. Minimum course requirements above 206 for a degree in the School of Letters and Science:
 - a. French: one of the following: 303, 304, 312; one of the following: 315, 318, 330.
 - b. German: one of the following: 301, 304, 312; 314; one of the following: 315, 318, 330.
 - c. Spanish: one of the following: 301, 304, 307, 312; one of the following: 315, 318, 320, 325.
 - d. Russian: See 4.d.

SPECIAL MINOR PROGRAM IN FRENCH, GERMAN AND SPANISH: For students in Elementary Education, this program makes a 21-credit minor possible when work is begun with 101, and also provides for a special course, 305. In addition, 1 credit must be earned in 13 330, Teaching Foreign Languages in the Elementary School.

1. Beginning with 101: 8 credits in 101 and 102 and 13 credits in 201, 202, 205, 206, and 305.
2. Beginning with 102 or above: a total of 16 credits must be earned after 102.
3. If a student is unable to program for 305, he may select any other course on the 300 level.

Courses in French

41 101	(41 101)	Beginning French	(4 + 0)	4 cr.
Introduction to basic audio-lingual skills, to fundamental structure, and to rapid reading for comprehension. (Usually offered first semester only.)				
41 102	(41 102)	Beginning French	(4 + 0)	4 cr.
A continuation of 41 101. (Usually offered second semester only.)				
41 201	(41 301)	Intermediate Reading and Conversation	(3 + 0)	3 cr.
Emphasis on reading and translation, plus review of basic grammar principles. Audio-lingual practice based upon readings. Prerequisite: 41 102 or equivalent. May be used to complete the language requirements for the B.A. degree. (Usually offered first semester only.)				
41 202	(41 302)	Intermediate Reading and Conversation	(2 + 0)	2 cr.
A continuation of 41 201. (Usually offered second semester only.)				
41 205	(41 305)	Intermediate Grammar and Composition	(2 + 0)	2 cr.
Thorough review of grammar principles. Composition of themes. Audio-lingual practice. Prerequisite: 41 102 or equivalent. Note: It is recommended that 41 205 and 41 206 be taken concurrently with 41 201 and 41 202 by majors and minors.				
41 206	(41 306)	Intermediate Grammar and Composition	(2 + 0)	2 cr.
A continuation of 41 205.				

GEOGRAPHY

MAJOR: 34 credits to include: 50 117, 50 118, 50 111, and 50 401. A minimum of 12 credits will be elected from upper level courses (numbered 300 or above).

MINOR: 22 credits to include: 50 117, 50 118, and 50 111. A minimum of six credits will be elected from upper level courses (numbered 300 or above).

RECOMMENDATIONS

1. Natural Science General Education laboratory science requirements can be satisfied by 50 117 and 50 118.
2. Social Science General Education credit is given for 50 111 and 50 105.
3. A Bachelor of Arts degree is recommended for majors in the School of Letters and Science who plan to enter a graduate school.

50 105 (50 105) Regional Geography of the Eastern Hemisphere (3 + 0) 3 cr.

An analysis of selected significant regions in Europe, Asia, Africa, and Oceania utilizing both physical and cultural elements of geography. (Usually offered second semester only.)

50 111 (50 111) Survey of Cultural Geography (3 + 0) 3 cr.

A topical study of the nature, distribution, and significance of the major cultural elements of geography. (Usually offered first semester only.)

50 117 (50 117) Introduction to Physical Geography (3 + 2) 4 cr.

A study of earth-sun relationships, earth modification processes and earth structures, elements and controls of weather and climate, mineral and rock identification, land-form processes, and maps and map projections. (Usually offered first semester only.)

50 118 (50 118) Physical Geography (3 + 2) 4 cr.

A study of the classification and distribution of the major types of landforms, climates, soils, and vegetation. Field trip. Prerequisite: 50 117. (Usually offered second semester only.)

50 252 (50 352) Landscape Morphology (3 + 0) 3 cr.

The study of the processes of landform evolution. Analysis of landforms and interpretation of the physical landscape using topographic maps, aerial photographs, and topographic models. Prerequisite: 50 117 or (Geology) 51 102. (Usually offered second semester only.)

GEOLOGY

MAJOR: 35 to 38 credits to include 51 102, 51 106, 51 205, 51 206, 51 209, 51 302, 51 316 or 51 319, 51 331, and 51 342, plus electives, 6 to 9 credits, from the following: 51 201, 51 202, 51 307, 51 308, 51 310, 51 322, 51 326, 51 327, 51 328, 51 335, 51 340, 51 343, 51 350, 51 360, 51 365, 51 470, 51 471, and (geography) 50 252. Also required (chemistry) 32 105 and 32 106, (mathematics) 67 171, (physics) 82 101 and 82 102 or 82 107 and 82 108.

MINOR: A minimum of 22 credits, to include 51 102 and 51 106.

MAJOR IN EARTH SCIENCE TEACHING: Designed for students planning to enter the Secondary Education program in preparation for teaching Earth Science. The following program also meets the requirements for general science teaching.

- a. Geology Requirements: 51 102 or 51 169, 51 106, 51 201 and 51 202 or 50 252 and 51 209, 51 304 (or 51 205 and 51 206), 51 328, 51 342, 51 377, 51 470 (Special Problems in Earth Science and Man's Environment).
- b. Other Requirements: 67 108 or 67 103 and 67 104 (mathematics), 32 101 and 32 103 or 32 105 and 32 106 (chemistry), 82 101 and 82 102 or 82 107 and 82 108 (physics), 26 101 or 26 107 and either 26 121 or 26 126 or 26 127 (biology), 50 335 or 50 342 (geography), 24 101 (astronomy).

MINOR IN EARTH SCIENCE TEACHING: Appropriate for students selecting a Secondary Education major in Natural Science, and with modification for a minor in Elementary Education.

- a. Geology Requirements: 51 102 or 51 169, 51 106, 51 304 (or 51 205 and 51 206), 51 328, 51 377, 51 470 (Special Problems in Earth Science and Man's Environment).
- b. Other Requirements: 67 108 or 67 103 and 67 104 (mathematics), 32 101 and 32 103 or 32 105 and 32 106 (chemistry), 82 101 and 82 102 or 82 107 and 82 108 (physics), 26 101 and 26 107 and either 26 121 or 26 126 or 26 127 (biology), 50 335 or 50 342 (geography), 24 101 (astronomy).

51 102 (51 102) Physical Geology (3 + 2) 4 cr.
A study of the nature and origin of the rocks which make up the earth and of the geologic processes which change the surface and the structure of the earth. Among these processes are volcanism, mountain making, weathering, and erosion and the deposition by streams, glaciers, winds, and waves. Laboratory work includes the identification of the more common minerals and rocks, map study and field trips. (Usually offered first semester only.)

51 106 (51 106) Historical Geology (3 + 2) 4 cr.
The origin and history of the earth and the life upon it as determined from study of its rocks and fossils. Emphasis is given to North America. A field trip to the Baraboo area is required. Prerequisite: Physical Geology, or consent of instructor. (Usually offered second semester only.)

51 169 (51 169) Earth Science and Man's Environment (3 + 2) 4 cr.
Discussion of those aspects of Earth Science most relevant to man's natural environment. Topical discussion of air, water, and soil pollution from a physical-chemical approach; atmospheric storms, especially hurricanes; and geological hazards such as earthquakes, landslides, tidal waves, and floods. Emphasis will be placed on depletion of energy and metal resources, and the need for man to design with nature. Recommended for and open only to education majors. Credit cannot be received for both 51 102 and 51 169. (Usually offered second semester only.)

HISTORY

MAJOR: 36 credits to include 57 101, 57 102, 57 201 and 57 202 in that order; and a minimum of 24 credits to be elected from upper division courses divided as follows: either (1) 15 credits from American history and 9 credits from European or non-western history, or both; or (2) 15 credits from European or non-western history, or both, and 9 credits from American history. Upper division courses are those numbered in the 300-to-400 sequence.

MINOR: 24 credits, to include: 57 101, 57 102, 57 201 and 57 202 in that order, and a minimum of 12 credits to be elected from upper division courses divided as follows: 6 credits from American history, and 6 credits from either European or non-western history or both. Upper division courses are those numbered in the 300-to-400 sequence.

SOCIAL SCIENCE MAJOR: 54 credits (for secondary education students only). History minor (24 credits) plus Economics: 36 205 Principles of Economics I, 36 206 Principles of Economics II; Geography: 50 III Survey of Cultural Geography, 50 316, 50 318 Anglo American; Political Science: 84 101 Introduction to Government, 84 105 American Government; Sociology 92 101 Principles of Sociology, 92 151 Modern Social Problems, plus 5 elective credits from these fields to total 54 credits. Must be accompanied by Education 14 337, The Teaching of History and Social Studies and 11 329 The Junior High School; Biology: 26 347 Conservation of Natural Resources and include History 57 341 History of Wisconsin, or Economics 36 311 The Cooperative Movement. Provides broad social studies certification grades 7 through 12, but greatest demand is in the junior high school.

57 101 (57 101) Early Civilization (3 + 0) 3 cr.
A survey of the development of Western Civilization, from its beginnings in Mesopotamia and Egypt, through Greece, Rome, the Middle Ages, and the Renaissance.

57 102 (57 102) Modern Civilization (3 + 0) 3 cr.
A survey of the development of Western Civilization from the Renaissance through the Reformation, the scientific revolution, the Enlightenment, the industrial revolution, and the emergence of nationalism and democracy, to the present.

57 201 (57 301) United States History to 1865 (3 + 0) 3 cr.
A survey of United States history from voyages of discovery and early European settlement: in North America, through colonial rivalries, the struggle of the English colonies for independence, the expansion and development of the young republic, and the crisis of the Civil War to 1865.

57 202 (57 302) United States History Since 1865 (3 + 0) 3 cr.
A survey of United States history from 1865. It deals with the emergence of a modern, industrial state, American expansion abroad, the First World War, and America's role as a world power to the present.

MATHEMATICS

MAJOR: (Secondary): 34 credits to include: (a) 67 171, 67 172*, 67 222, (b) 15 credits from courses numbered above 300 with at least one course selected from each of the following areas:

1. Geometry
2. Probability and Statistics
3. Algebra or Number Theory

*While 67 273 is not included in the minimum requirements for the secondary major, the sequence 67 171, 67 172, 67 273 should be completed by all students who expect to do graduate work in mathematics. Students without a minor should take 67 273.

MAJOR: (Liberal Arts, Graduate Preparation): 40 credits to include: (a) 67 171, 67 172, 67 273, 67 222; (b) a seminar or an independent study course, and (c) 7 courses numbered above 300 (excluding seminars and reading courses). Of these, two courses must be selected from area 1, two from area 2, and two from one of the other areas listed below:

1. Algebra (67 342, 67 346)
2. Analysis (67 461, 67 462, 67 471)
3. Geometry and Topology (67 332, 67 433, 67 435, 67 480)
4. Probability and Statistics (67 380, 67 381, 67 382, 67 392, 67 393)

MAJOR: (Applied Mathematics): 39 credits to include: (a) 67 171, 67 172, 67 273, 67 222, and (b) 7 courses with numbers above 300. Two one-year sequences must be selected from area 1, 2, or 3.

1. Computer related courses (67 352, 67 355)
2. Statistics (67 392, 67 393)
3. Applied Mathematics (67 375, 67 376)

MINOR: A minimum of 24 credits, to include: 67 171, 67 172, 67 222; one course in geometry and one course in algebra with a course in probability-statistics highly recommended.

AREA OF EMPHASIS IN MATHEMATICS FOR ELEMENTARY AND JUNIOR HIGH SCHOOL PROGRAMS: A minimum of 22 credits to include: 67 108 or 67 311, 67 111, 67 211, 67 310 or 14 341, 67 413 and 67 415.

67 103 (67 141) Introduction to College Algebra I (3 + 0) 3 cr.
Numbers and operations, equations and inequalities, exponents and radicals, complex numbers, functions and graphs. Prerequisite: A minimum of two years of high school mathematics from the areas of algebra and geometry and the recommendation of the Mathematics Department. This recommendation is made on the basis of the student's high school mathematics record, score on the Mathematics Placement Exam and indicated university objectives.

67 104 (67 142) Introduction to College Algebra II (3 + 0) 3 cr.
Continuation of functions and graphs including trigonometry and logarithms, polynomials, induction, progressions, matrices and determinants, permutations, combinations, probability. Students may not receive credit for both 67 104 and 67 108. Prerequisite: 67 103.

- 67 108 (67 161) College Algebra and Trigonometry (5 + 0) 5 cr.**
 Introduction to sets, logic, functions and relations. Number systems (including complex numbers) equations, inequalities and absolute values. Mathematical induction and the binomial theorem. Functions. Graphing techniques. Plane trigonometry. Permutations, combinations and probability. Linear systems. Theory of equations. Students may not receive credit for both 67 104 and 67 108. Prerequisite: 67 103 or a minimum of 2½ years of high school mathematics from the areas of algebra and geometry and the recommendation of the Mathematics Department. This recommendation is made on the basis of the student's high school mathematics record, score on the Mathematics Placement Exam and indicated university objectives.
- 67 111 (67 203) College Arithmetic (2 + 0) 2 cr.**
 Elementary ideas about sets. Systems of numeration. Operations on whole numbers and rational numbers and their properties. Algorithms and their rationale. Elements of number theory. (Usually offered first semester only.)
- 67 201 (67 201) Remedial and Elementary Arithmetic (2 + 0) 0 cr.**
 To be taken with 67 111 by students in elementary programs.
- 67 171 (67 261) Calculus and Analytic Geometry I (5 + 0) 5 cr.**
 Analytic geometry of the straight line and circle. Functions, limits and derivatives. Differentiation of algebraic functions. Theory of maxima and minima. Conic sections and other algebraic curves. Theory of definite integrals, and the fundamental theorem of integral calculus. Calculation of areas by integration. Selected topics in advanced algebra and analytic trigonometry will be reviewed as needed. Prerequisite: 67 108 or a minimum of 3½ years of high school mathematics, and including work in algebra, geometry and trigonometry, and the recommendation of the Mathematics Department. This recommendation is made on the basis of the student's high school mathematics record, score on the Mathematics Placement Exam and indicated university objectives.
- 67 172 (67 262) Calculus and Analytic Geometry II (5 + 0) 5 cr.**
 Continuation of 67 171. The definite integral as the limit of a sum. Geometric and physical applications of definite integrals. Differentiation of transcendental functions. Integration by parts and by substitution. Integration of rational functions. Moments and centers of gravity. Vector algebra. Parametric equations, polar coordinates, and applications. Prerequisite: 67 171.
- 67 204 (67 422) Mathematics for Business Analysis (5 + 0) 5 cr.**
 Special functions, variation, series, binomial theorem, and progressions with applications in compound interest, annuities, construction of tables, etc. Derivatives and integrals as applied to business analysis, systems of linear equations, matrices, determinants, linear programming, probability and statistics. Prerequisite: 67 104 or 67 108, or a minimum of 3½ years of high school mathematics, including work in algebra, geometry, and trigonometry, and a satisfactory score on the Mathematics Placement Exam. (Usually offered second semester only.)
- 67 211 (67 403) Fundamentals of Arithmetic (3 + 0) 3 cr.**
 Introduction to logic. The number line. Measurement of linear, plane, and solid figures. Intuitive geometry including congruence, symmetry, and similarity. Ratio and proportion. Prerequisite: 67 111 or consent of Mathematics Department. (Usually offered second semester only.)
- 67 273 (67 263) Calculus and Analytic Geometry III (3 + 0) 3 cr.**
 Topics in multi-variable calculus including vectors and three dimensions, partial derivatives of functions of more than one variable, double and triple integrals, applications, sequence and infinite series. Prerequisite: 67 172.

PRACTICAL ARTS

Non-departmental. Offerings are related to the Mathematics Department.

85 101 (85 101) Elements of Descriptive Geometry (0 + 6) 3 cr.

A basic course designed to help solve engineering problems that deal with single and intersecting surfaces which are not necessarily placed in principal planes of projection. A graphic study is made of points, lines, and planes in space. Both auxiliary projections and rotations are employed. Other areas of study include: piercing point, parallelism, perpendicularity, vectors, developments, warped surface, and mining and geology applications. (Usually offered first semester only.)

85 102 (85 102) Engineering Drawing and Design (0 + 6) 3 cr.

A course designed to provide basic knowledge of the standards of Engineering Drawing and to develop basic skills in the use of drafting equipment. Major areas covered include: orthographic projection, pictorial drawing, auxiliary and sectional views, fasteners and mechanical accessories, basic and limit dimensioning, and working drawings. Emphasis is placed on ability to use handbooks and other source materials, adherence to A.S.A. standards, and familiarity with simplified drafting practices. The student is introduced to the fundamental principles of Tool Design through the actual design and layout of simple jigs and fixtures. (Usually offered second semester only.)

MILITARY SCIENCE

70 101 (70 101) U.S. Defense Establishment I (1 + 1) 1 cr.

Orientation of the ROTC program. Objectives and instruments of national power, strategy and security. Evolution of weapons and warfare. Leadership laboratory.* (Usually offered first semester only.)

70 102 (70 102) U.S. Defense Establishment II (1 + 1) 1 cr.

Military organizations, missions and capabilities. Individual weapons and marksmanship. Leadership laboratory.** (Usually offered second semester only.)

70 201 (70 301) American Military History (2 + 1) 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 laboratory.* (Usually offered first semester only.)

70 202 (70 302) Introduction to Tactics and Operations (2 + 1) 2 cr.

The objectives of this course are (1) to develop an appreciation of the fundamentals and techniques of small unit tactics; (2) to orient the student on the use of maps and map substitutes required for military operations; (3) to introduce the student to the fundamental considerations for military operations. Leadership laboratory, to include weekend field trip.** (Usually offered second semester only.)

*Leadership laboratory will meet for one two hour period per week during the first half of the semester and will not meet during the second half.

**Leadership laboratory will meet for one two hour period per week during the second half of the semester and will not meet during the first half.

MUSIC

MAJOR: (Music Education-Instrumental)

1. With Band/Orchestra concentration — 62-64 credits to include: 16-18 credits in theory, 8-10 credits in history and literature, 32 credits in performance (applied lessons, concert organizations, technique classes and conducting), 2 credits in methods, and 2-4 credits in elective courses.

2. With General Music Concentration — 64 credits to include: 16-18 credits in theory, 8-10 credits in history and literature, 32 credits in performance (applied lessons, concert organizations, technique classes and conducting), and 6 credits in methods.

MAJOR: (Music Education-Vocal)

1. With Choral Concentration — 62-64 credits to include: 16-18 credits in theory, 8-10 credits in history and literature, 30 credits in performance (applied lessons and related courses, organizations, and conducting), 4 credits of methods and 2-4 elective credits.

2. With General Music Concentration — 62 credits to include: 16-18 credits in theory, 8-10 credits in history and literature, 30 credits in performance (applied lessons and related courses, organizations and conducting), 4 credits in methods and 2 electives credits.

MAJOR: (B.A. or B.S.-Vocal or Instrumental) 42 credits, to include: 14 credits in theory, 16 credits in applied music, 4 credits in concert organizations, 8 credits in history and literature courses.

MAJOR: (Bachelor of Music-Instrumental Major) 75 credits, to include: 28 credits in theory and allied courses (including conducting and piano class), 29 credits in applied music (including technique courses and minor instrument), 10 credits in concert organizations, and 8 credits in history and literature courses.

MAJOR: (Bachelor of Music-Piano or Organ Major) 74 credits, to include: 24 credits in theory and allied courses, 26 credits in applied music, 8 credits in concert organizations, 16 credits in history and literature.

MAJOR: (Bachelor of Music-Vocal Major) 75 credits, to include: 24 credits in theory and conducting, 27 credits in applied music, 12 credits in concert organizations (including opera theatre), and 12 credits in history and literature courses.

MAJOR: (Bachelor of Music-Music Therapy) 58 credits of music and 12 credits of music therapy, to include: 18 credits in music theory, 6 credits in music history and literature, 24 credits in applied music instrumental techniques, 4 credits in organizations, 3-4 credits in conducting, and 12 credits in music therapy including a six-month internship.

MINOR: (Elementary) 26 credits, to include: 9 credits in theory and allied courses, 2 credits in music education courses, 4 credits in applied music, 4 credits in concert choral organizations, 4 credits in history and literature courses, 3 credits in conducting and choral techniques.

MINOR: (Non-Teaching) 24 credits, to include: 4 credits in concert organizations, 9 credits in theory (73 105, 73 106, 73 203), 4 credits in history and appreciation (73 317 and 73 318), 4 credits in applied music, and 3 credits in electives.

Performance

I. Concert Organizations

University Wind Ensemble (0 + 4) 1 cr.
73 121, 73 122, 73 221, 73 222, (73 121, 73 122, 73 321, 73 322)

University Choir (0 + 4) 1 cr.
73 131, 73 132, 73 231, 73 232, (73 131, 73 132, 73 331, 73 332)

II. Applied Music

Credit is granted for private instruction on the basis of one credit for each half hour lesson per week. Each semester course number in applied music is a prerequisite to the following semester. Private applied lessons are for music majors and minors only. Permission to register must be obtained from the coordinator of the respective applied area.

Percussion Instruments 1-4 cr.
73 191, 73 192, 73 291, 73 292, (73 191, 73 191, 73 391, 73 392)

String Instruments 1-4 cr.
73 193, (73 193)

Woodwind Instruments 1-4 cr.
73 195, 73 196, 73 295, 73 296, (73 195, 73 196, 73 395, 73 396)

Brass Instruments 1-4 cr.
73 197, 73 198, 73 297, 73 298, (73 197, 73 198, 73 397, 73 398)

Organ 1-4 cr.
73 161, 73 162, 73 261, 73 262, 73 361, 73 362, 73 461, 73 462
(73 261, 73 262, 73 461, 73 462, 73 661, 73 662, 73 861, 73 862)

Piano 1-4 cr.
73 171, 73 172, 73 271, 73 272, (73 271, 73 272, 73 471, 73 472)

73 175 (73 275) **Class Piano for Elementary Majors** (1 + 1) 1 cr.
A course for elementary education majors who need additional keyboard experience.

73 208, 73 209 (73 408, 73 409) **Chamber Music** (0 + 1) 1 cr.
A study and performance of master works representative of several styles in music and in all idioms. Regularly scheduled performances are a required part of the course.

III. Techniques Courses

73 176, 73 177 (73, 297, 73 298) **Brass Instrument Techniques** (1 + 1) 1 cr.

A practical study of brass instruments with methods of teaching brass in class and private lessons.

Music History and Literature Courses

73 115 (73 115) **Introduction to Music Literature I** (1 + 1) 1 cr.
A fundamental study of the elements of music and score reading used as a guide to listening. Emphasis is placed on literature from all periods to illustrate the various musical elements and mediums. Required listening. For music majors only. (Usually offered first semester only.)

73 116 (73 116) **Introduction to Music Literature II** (1 + 1) 1 cr.
A general, chronological survey of all musical periods with emphasis on the literature and the development of forms and styles. Required listening. Prerequisite: 73 115. (Usually offered second semester only.)

73 205 (73 305) Survey of Music History I (2 + 1) 2 cr.
The evolution and development of music from antiquity to the Classical Era. Special emphasis is placed on the development of polyphony, musical forms, and styles. Prerequisites: 73 115 and 73 116. (Usually offered first semester only.)

73 207 (73 307) Survey of Music History II (2 + 1) 2 cr.
A continuation of the evolution and development of music from the Classical Era to the present day. Special emphasis on literature and musical research techniques. Prerequisites: 73 115 and 73 116. (Usually offered second semester only.)

73 219 (73 309) Music Appreciation (2 + 0) 2 cr.
A general survey of music literature to gain an understanding of the function of music in contemporary living. Primary emphasis on listening. A course for the non-music major or minor.

Theory and Allied Courses

73 101 Elements of Music (3 + 0) 3 cr.
A course for elementary majors in the introduction to music through ear training, sight singing, and acquaintance with keyboard instruments.

73 104 (73 104) Harmony I (3 + 2) 4 cr.
Partwriting in the Bach Chorale style. Prerequisite 73 107. (Usually offered second semester only.)

73 107 (73 107) Basic Musicianship (3 + 2) 4 cr.
Introduction to music and its notation, with an emphasis on ear training and sight singing and leading to the Bach Chorale Technique. For Music Majors and Minors only. (Usually offered first semester only.)

73 213 (73 313) Counterpoint III (2 + 1) 2 cr.
Beginning counterpoint. Prerequisite 73 104.

73 214 (73 314) Counterpoint IV (2 + 1) 2 cr.
A continuation of 73 214. Prerequisite 73 214.

PHILOSOPHY

MAJOR: 34 credits to include 76 201, 76 205, 76 209, 76 301, 76 305, 76 309.

MINOR: 24 credits to include 76 201, 76 205, 76 209, 76 301 or 76 305.

76 201 (73 301) Elementary Logic (3 + 0) 3 cr.
An analysis of thinking, deductive, inductive, and instrumental, designed to aid in the development of the thinking process. Examples illustrating the use of logical and illogical reasoning drawn from selected exercises and current literature. Note: 76 201 may be taken to meet the science-mathematics requirements in general education, nursing, and wherever else acceptable.

76 202 (76 302) Symbolic Logic (3 + 0) 3 cr.
A study of the formal characteristics of deductive inference and deductive systems. Prerequisite: 76 201 or consent of instructor. Note: 76 202 may be taken to meet the science-mathematics requirements in general education and wherever else acceptable. (Usually offered second semester only.)

76 205 (76 305) Ethics (3 + 0) 3 cr.
An analysis of the principal theories and their practical application to problems con-

cerning the individual and society. Proposed methods of justifying moral principles will be examined.

76 209 (76 309) Introduction to Philosophy (3 + 0) 3 cr.
A survey of some of the perennial problems of the human enterprise, such as the nature of reality, of truth, of beauty, of man's ideal political and social relationships and of the good life, together with solutions to these problems, offered by the best known Greek, medieval, and modern philosophers. (Usually offered first semester only.)

PHYSICAL EDUCATION AND HEALTH EDUCATION

Health Education

MINOR: 25 hours to include: (Biology) 26 211; (Health Education) 55 106, 55 101, 55 301, 55 308, 55 211, 55 402; (Psychology) 86 331; (Sociology) 92 343; (Education) 11 640. Note prerequisites.

Physical Education

MAJOR: (for men) 51 credits to include 77 107, 77 165, 77 305, 77 311, 77 313, 77 215, 77 217, 77 179, 77 323, 77 200, 77 224, 77 347, 77 349, 77 321, 77 441, 77 460, and (Biology) 26 103, 26 211, and 26 212.

MAJOR: (for women) 41 credits to include: 77 107, 77 221, 77 108, 77 109, 77 165, 77 201, 77 202, 77 323, 77 155, 77 305, 77 200, 77 341 and 77 342 or 77 345, 77 203, 77 321, 77 325, 77 347, 77 423, 77 441 or 77 443, 77 460 and (Biology) 26 103, 26 211 and 26 212.

MINOR: (for Women in Secondary Education) 22 credits to include: 77 107, 77 108, 77 109, 77 201, 77 202, 77 323, 77 203 and 77 460 and (Biology) 26 103, 26 211, and 26 212.

MINOR: (for men in Secondary Education) 36 credits to include: 77 311, 77 313, 77 215, 77 217, 77 179, 77 323, 77 221 or 77 224 or 77 326, 77 460 and (Biology) 26 103, 26 211, 26 212, and (Health Education) 55 405.

MINOR: (for men and women in Elementary Education, Physical education, and Special Education) 21 credits to include 77 204, 77 200, 77 179 or 77 203, 77 345, 77 302 and nine credits of electives to be selected from: 77 107, 77 165, 77 323, 77 155, 77 304 or 77 443.

Health Education

55 101 (55 101) Safety and First Aid (2 + 0) 2 cr.
Recognition of necessity of accident prevention and the consciousness of hazards with consequent need of building self-control and conscious responsibility of safety of others. The emergency care measures for bleeding, wounds, burns, fractures, suffocation, unconscious conditions, poisons, and other common illnesses and emergencies are presented. Lectures and demonstrations are accompanied by training in proper methods and procedures of emergency care.

Physical Education

- 77 101 (77 101) Fundamentals of Movement (For Women) (0 + 2) 1 cr.**
 The nature and function of movement fundamentals, body conditioning, physical fitness, and posture. The skills and techniques of relaxation are included. Some attention is given to plays, games, and playground management.
- 77 107 (77 207) Orientation to Physical Education (Men and Women) (1 + 0) 1 cr.**
 An introduction to physical education as a profession including professional preparation, history, scope, and contemporary issues. (Usually offered first semester only.)
- 77 108 (77 208) Team Sports (For Women) (1 + 2) 2 cr.**
 Skills, rules and teaching techniques involved in soccer, field hockey and volleyball. (Usually offered first semester only.)
- 77 109 (77 209) Team Sports (For Women) (1 + 2) 2 cr.**
 Skills, rules, and teaching techniques involved in basketball, speedball, and softball. (Usually offered second semester only.)
- 77 111 (77 111) Basic Physical Education (Men) (0 + 2) 1 cr.**
 A basic course designed to improve fitness through the use of conditioning exercises and seasonal sports.
- 77 113 (77 113) Weight Training and Conditioning (Men) (0 + 2) 1 cr.**
 Fundamental course in weight training for body conditioning and basic physical conditioning techniques. (Usually offered first semester only.)
- 77 122 (77 122) Archery and Bowling (Men and Women) (0 + 2) 1 cr.**
 Basic skills and techniques fundamental to archery and bowling. (Usually offered first semester only.)
- 77 123 (77 123) Golf and Bowling (Men and Women) (0 + 2) 1 cr.**
 Basic skills and techniques fundamental to golf and bowling. Designed primarily for students of beginning levels of skill.
- 77 125 (77 125) Beginning Horsemanship (Men and Women) (0 + 2) 1 cr.**
 \$40.00 fee. Introductory course in English riding including care and grooming of horses. Emphasis on horsemanship.
- 77 126 (77 126) Intermediate Horsemanship (Men and Women) (0 + 2) 1 cr.**
 \$40.00 fee. Intermediate course in English riding. Emphasis on improving horsemanship skills. (Usually offered second semester only.)
- 77 129 (77 129) Square and Social Dance (Men and Women) (0 + 2) 1 cr.**
 Beginning square dance and introductory social dance skills including fox trot, waltz, tango, cha-cha, and swing. (Usually offered second semester only.)
- 77 130 (77 130) Tennis-Badminton (Men and Women) (0 + 2) 1 cr.**
 A basic course in tennis and badminton with emphasis upon beginning skills and techniques.
- 77 132 (77 132) Beginning Judo (Men and Women) (0 + 2) 1 cr.**
 A basic course in fundamental falls, holds, and throws. Uniform required.
- 77 134 (77 134) Intermediate Judo (Men and Women) (0 + 2) 1 cr.**
 Encompasses the principles of the first Too Kyo of the Go Kyomo Waza as outlined by the Kodokan. The emphasis is placed upon throwing techniques. Students are tested for promotion to YonKyu (green belt). Prerequisite: Beginning Judo or consent of instructor. (Usually offered second semester only.)

77 136 (77 136) Beginning Scuba (Men and Women) (0 + 2) 1 cr.
Basic skin scuba training. Use of equipment and diving techniques. Must be able to swim 50 yards. \$15.00.

77 139 (77 139) Trampoline-Tumbling (Men and Women) (0 + 2) 1 cr.
Skills of trampoline and mat tumbling from the simple to the complex. (Usually offered second semester only.)

77 141 (77 141) Gymnastics (Men and Women) (0 + 2) 1 cr.
Free exercise, side horse, still rings, horizontal bar, vaulting, parallel bars, uneven parallel bars, balance beam, conditioning exercise. (Usually offered second semester only.)

77 145 (77 145) Archery and Apparatus (Men and Women) (0 + 2) 1 cr.
A basic course in the fundamentals of archery and an introduction to fundamental skills in basic gymnastic apparatus. (Usually offered second semester only.)

77 146 (77 146) Badminton, Folk and Square Dancing (Men and Women) (0 + 2) 1 cr.
A course of basic instruction in the techniques of badminton and an introduction to square dance and folk dance. (Usually offered second semester only.)

PHYSICAL SCIENCE

80 101 (80 101) Physical Science (3 + 2) 4 cr.
Designed particularly for students preparing of elementary school teaching. The basic concepts of physical science that the student must understand to teach elementary school science are studied. The laboratory work is designed to develop the competency of the student to the level where he can effectively guide an elementary school science laboratory program. The relationship between physical science and other areas of science and mathematics is developed, and an important objective of the course is to raise the student's level of scientific literacy. The concepts of physical science are related to the everyday life of the student.

PHYSICS

MAJORS: 34 credits to include 82 107 and 82 108, or 82 109 and 82 110, 82 206, 82 315, 82 342, 4 credits of intermediate laboratory, 2 credits of seminar, and the remaining credits chosen from physics courses at or above the 200 level. Courses 82 325, 82 335, and 82 345 will not count as credit for a physics major in the School of Letters and Science.

MINOR (Physics-Letters and Science) 24 credits to include 82 107 and 82 108, or 82 109 and 82 110, 82 206, 2 credits of intermediate laboratory, and the remaining credits chosen from physics courses at or above the 200 level.

MINOR: (Physics-Secondary Education) 24 credits to include one of the two semester sequences 82 107, 108 or 82 109, 110, and 82 325, 82 335, and 82 345, and the remaining credits chosen from physics courses at or above the 200 level.

MINOR: (Astronomy) 24 credits, to include 82 107 and 82 108, or 82 109 and 82 110, 82 203, 82 204, 82 303, 82 304, and remaining credits from 82 303, 82 342, 82 343, 82 419, 82 420, 82 480, 82 401, 82 405, 67 375, 67 376, 67 355.

82 107 (82 107) General Physics (4 + 2) 5 cr.
A survey of mechanics, heat, and sound providing a suitable background for professional work occasionally dependent on these fields. Recommended for students following a pre-professional curriculum. Suitable for chemistry, physics, and mathematics majors with departmental consent. Students having concurrent registration in Mathematics 67 171 should take Physics 82 109. Prerequisite: Credit or concurrent registration in Mathematics 67 108, or credit in Mathematics 67 104. (Usually offered first semester only.)

82 108 (82 108) General Physics (4 + 2) 5 cr.
A survey of electricity, magnetism, and light providing a suitable background for professional work occasionally dependent on these fields. Recommended for students following a pre-professional curriculum. Suitable for chemistry, physics, and mathematics majors with departmental consent. Students should enroll in Physics 82 110 if they meet the prerequisites for that course. Prerequisite: Physics 82 107 (or A or B in Physics 82 101) and credit or concurrent registration in Mathematics 67 108, or credit in Mathematics 67 104. (Usually offered second semester only.)

82 201 (82 301) Statics for Engineering 3 cr.
A study of the action of forces on bodies at rest or in equilibrium. Topics covered include forces and force systems, composition and resolution of forces, forces in equilibrium, simple frameworks, trusses, friction, center of gravity. This course is designed for pre-engineering students and will not ordinarily be taken by physics majors and minors. Prerequisite: Credit or concurrent registration in 82 107 or 82 109, Mathematics 67 171. (Usually offered first semester only.)

82 202 (82 302) Dynamics for Engineering (3 + 0) 3 cr.
A study of motion and the action of forces in producing or modifying the motion of bodies. Topics covered include rectilinear motion, curvilinear motion, rotation, plane motion. D'Alembert's Principle, work, power, energy, impulse, and momentum. This course is designed for pre-engineering students and will not ordinarily be taken by physics majors and minors. Prerequisite: 82 201. Credit or concurrent enrollment in Mathematics 67 172. (Usually offered second semester only.)

POLITICAL SCIENCE

MAJOR: 34 credits to include all departmental foundation courses and a minimum of 25 additional credits selected from the remaining courses offered. In order to achieve an appropriate measure of competence within the political science discipline, majors are required to select and to take courses totaling 18 credits concentrated in at least three of the five groups below.

NOTE: A maximum of three credits selected from the following courses in the Urban and Regional Studies Department may be counted in Group 1 toward a **major** only: 99 301, 99 320, 99 361, and 99 401. (For course description, see Urban Studies Department.)

A maximum of three credits selected from the following courses in the International Studies Department may be counted in Group 4 toward a **major** only: 59 205, 59 206, 59 207, and 59 402. (For course description, see International Studies Department.)

MINORS: 22 credits to include the departmental foundation courses and a minimum of 13 additional credits selected among the five groups below with no particular concentration.

Group 1: American Government

Group 2: Political Theory

Group 3: Comparative Government

Group 4: International Relations and Organization

Group 5: Public Administration

84 101 (84 101) Introduction to Government (3 + 0) 3 cr.

Role of government in contemporary society; varying systems of government; democracy, communism, and fascism; principles and problems; the individual and his government; the relations of states with one another. (Usually offered first semester only.)

84 105 (84 105) American Government (3 + 0) 3 cr.

Organization, principles, and actual working of the American National Government in all its branches. (Usually offered second semester only.)

84 115 (84 115) International Politics (3 + 0) 3 cr.

Development of the national state system; role of the great powers; the struggle for power; settlement of disputes; diplomacy; the quest for law; nationalism; contemporary problems. Prerequisite: 84 101 or 84 105 or consent of instructor.

84 125 (84 225) State and Local Government (3 + 0) 3 cr.

Organization, structure, and functions of state and local government with emphasis on Wisconsin. Prerequisite: 84 105 or by consent of instructor. (Usually offered second semester only.)

PSYCHOLOGY

MAJOR (PLAN A): 33 credits, to include: 86 201, 86 203, 86 331, 86 371, 86 403, 86 463, and either 86 464 or 86 476, plus additional credits from other psychology courses offered to complete the major sequence. Other requirements: (Mathematics) 67 103 or 67 108 or equivalents. Ten credits of laboratory biology (exceptions to this requirement may be approved by the department for students with strong backgrounds in physics or chemistry.)

MAJOR (PLAN B): 27 credits, to include required psychology courses listed in Plan A and minor in one of the following areas: Biology, Chemistry, Mathematics, or Physics.

NOTE: Secondary education students with a major in psychology require a minimum of 34 credits for certification.

MINOR: 21 credits including 86 201, 86 203, 86 331. 12 additional credits, with six from upper level courses. Secondary education students planning to be certified to teach Psychology should elect 86 371, 86 463, 86 403, and 86 464.

86 201 IS PREREQUISITE FOR ALL COURSES IN PSYCHOLOGY

- 86 201 (86 301) General Psychology (3 + 0) 3 cr.**
 A beginning course in psychology designed to provide an understanding of the modern approach to human behavior and to lay the foundation for additional work in psychology.
- 86 203 (86 303) Elementary Psychological Statistics (3 + 0) 3 cr.**
 Descriptive statistical methods including measures of central tendency, variability and relationship. Introduction to inferential statistical methods. (82 203 and 92 281 may not both be counted for credits needed for graduation.) Statistics courses offered in other areas do not in all cases substitute for this course and may result in loss of credit. Prerequisites: 67 103, 67 108, or equivalent. (Usually offered second semester only.)
- 86 205 (86 305) Social Psychology (3 + 0) 3 cr.**
 Principles of human interaction as a function of the social setting. Topics include measurements of attitudes, propaganda, group behavior, and leadership. (86 205 and (Sociology) 92 321 may not both be counted for credit toward the 128 credits needed for graduation.)

SOCIOLOGY AND ANTHROPOLOGY

MAJOR: Sociology. 36 credits to include 92 101, 92 201, 92 281, 92 381; six credits from 92 301, 92 315, 92 321, 92 365, 92 361; and 18 additional credits from department courses (a maximum of 6 credits from 92 232, 92 376, 92 450, and 92 492, and a maximum of 6 credits from 92 367, 92 337, 92 371, and 92 373). A maximum of 2 credits from International Studies (59 205 or 59 206 or 59 207) may be counted in the total of 36 credits for the major.

MINOR: Sociology. 24 credits to include 92 101, 92 281, and 92 291 and 15 additional elective credits from Sociology courses offered by the department.

MAJOR: Anthropology. A total of 34 credits to include 92 102, 92 122 or 92 232, 92 202, 92 272, and 92 350; Maximum of 9 credits from 92 101, 92 281, 92 345, 92 381, and 92 401.

MINOR: Anthropology. A total of 24 credits to include: 92 102, 92 202, 92 332, 92 354, 92 332, and 12 additional elective credits from anthropology courses offered by the department.

MAJOR: Social Welfare. A total of 54 credits to include 92 101, 92 151, 92 281, 92 381, 92 367, 92 333, 92 369, 92 377, plus 12 elective credits from Department (maximum of 6 credits from Anthropology), plus 18 Social Science credits outside the department as follows (maximum of 6 credits from any one department):

Geography—Cultural Geography, Economic Geography, Urban Geography.

Philosophy—Ethics, Introduction to Philosophy, Social Philosophy.

History—2 U.S. History courses, 1 additional with advisor's consent.

Psychology—Introduction to Psychology, Genetic Psychology, Personal and Social Adjustment, Abnormal Psychology.

Economics—Principles of Economics, Underdeveloped Areas, Urban Economics.

Political Science—Introduction to Government, State and Local Government, Introduction to Public Administration.

Religion—Religion and Ethics, Religion and Society, Religion and Law.

Other relevant social science courses may be substituted with advisor's consent.

MINOR: Social Welfare. None offered.

Courses in Sociology

92 101 (92 201) Principles of Sociology (3 + 0) 3 cr.
A basic study of society and culture. Topics covered include social interaction, group behavior, social processes, culture change, social influences affecting personality, population growth and characteristics, and social institutions.

92 151 (92 252) Modern Social Problems (3 + 0) 3 cr.
A study of some of the major problems now confronting our society, such as personal and social disorganization, crime, juvenile delinquency, race and minority group relations, divorce and family problems. Prerequisite: 92 101. (Usually offered second semester only.)

92 301 (92 401) Introduction to Social Theory (3 + 0) 3 cr.
This course is concerned with selected case studies of systematic sociological theory. The purpose of the course is to give the student a basic knowledge of the theoretical basis of modern sociology. Prerequisite: 92 101, and 92 201. (Usually offered second semester only.)

Courses in Anthropology

92 102 (92 101) General Anthropology (3 + 0) 3 cr.
A course designed to acquaint the student with the discipline of Anthropology. The origin of man, prehistory, and the nature and content of culture are examined. (Usually offered first semester only.)

92 232 (92 331) Cultural Anthropology (3 + 0) 3 cr.
Focusing on the concept of "culture," the course discusses the aims, methods, and achievements of anthropological research and presents a general model for comprehending man in society. No prerequisite. (Usually offered second semester only.)

SPEECH

MAJOR: (General Speech Emphasis) 35 credits, to include: 96 111, 96 237, 96 265, 96 311/511, 96 317/517, 96 354/554, 96 367, and a minimum of 2 credits from Debate Participation, Radio Workshop, and Theatre Participation activities courses and at least twelve additional speech credits with a minimum of 6 credits in upper division courses.

MAJOR: (Radio-TV-Film Emphasis) 36 credits, to include: 96 111, 96 237, 96 231, 96 234, 96 238, 96 304, a minimum of two credits in Radio Workshop to include 96 430, or 96 432, and at least 16 additional credits in Speech, including one 3 credit course in each of two areas (6 credits total) in Speech other than Radio-TV-Film.

MAJOR: (Rhetoric and Public Address Emphasis) 35 credits, to include: 96 111, 96 113, 96 215, 96 217, 96 311/511, 96 317/517, 96 319, one History of Public Address course (3 credits), one Rhetorical Theory course (3 credits), and a minimum of 2 credits in Debate Participation and at least 7 additional speech credits including one 3 credit course in each of two areas (6 credits total) in Speech other than Rhetoric and Public Address.

MAJOR: (Speech Education Emphasis) 35 credits, to include: 96 111, 96 215, 96 265, 96 311/511, 96 317/517, 96 367, 96 369, 96 441, 96 444, and 96 422/622 or 96 423/623 or 96 471/671 or 96 472/672, and a minimum of two credits from Debate and Theatre Participation activities courses, and at least seven additional speech credits.

MAJOR: (Speech and Hearing Science Emphasis-Audiology) 46-48 credits to include 96 111 (to be counted under general requirements), 96 255, 96 321, 96 354/554, 96 356/556, 96 359, 96 381/581, 96 383/583, 96 385, 96 387, 96 489, 96 454, (Psychology) 86 203, a minimum of 4 credits and a maximum of 6 credits to be selected from 96 251, 96 252, 96 351, 96 352, 96 457, 96 458, and on additional 3 credit speech course in an area other than Communications Research and Speech and Hearing Science.

MAJOR: (Speech and Hearing Science Emphasis-Speech Pathology) 46-48 credits to include: 96 111 (to be counted under general requirements), 96 255, 96 321, 96 354/554, 96 356/556, 96 359, 96 381/581, 96 383/583, 96 451/651, 96 450, 96 454, 96 470, (Psychology) 86 203, a minimum of 4 credits and a maximum of 6 credits from 96 251, 96 252, 96 351, 96 352, 96 457, and one additional 3 credit speech course in an area other than Communications Research and Speech and Hearing Science.

MAJOR: SPEECH AND HEARING THERAPY (Education) 45-47 credits to include: Speech 69 111 (credits counted toward General Education requirements), 96 255, 96 354/554, 96 356/556, 96 359, 96 383/583, 96 385, 96 451/651, 96 450, 96 470, and a minimum of 4 credits and a maximum of 6 credits in Practicum 96 251, 96 252, 96 351, 96 352, 96 457, 96 458. (Special Education) 16 552, (Psychology) 86 331, 86 603. (Educational Psychology) (Counselor Education) 29 382, (Education) 13 521, Student Teaching and Problems in Student Teaching for Speech and Hearing Therapy taken as Education (14 400, 14 401, and 11 405.)

MAJOR: (Theatre Arts Emphasis) 36 credits, to include: 96 111, 96 165, 96 365, 96 367, 96 369, 96 471/671, 96 472/672, nine credits from other theatre courses and one 3 credit course in each of two areas (6 credits total) in Speech other than Theatre. In addition four semesters of supervised participation in the practical application of the theatre arts are required. Each student must participate in two of the three areas indicated in a given semester.

96 162 Theatre Practicum: Set Construction, Lights, Sound

96 261 Theatre Practicum: Acting, Make-up, Costumes

96 361 Theatre Practicum: Properties, Publicity, Business Management
96 461 Theatre Practicum: Student Election

MINOR: 21 or 22 credits

- a. Theatre emphasis: 96 111, 96 265, 96 317/517, 96 367, 96 369, 96 471/671 or 96 472/672, and at least four credits in selected electives.
- b. Public speaking emphasis: 96 111, 96 215, 96 265, 96 311/511, 96 317/517, 96 422/622 or 96 423/623, and at least four credits in selected electives.
- c. Elementary Education: 96 111, 96 255, 96 265, 317/517, 96 422/622 or 96 423/623, 96 471/671 or 96 472/672, and at least four credits in selected electives.
- d. Speech and Hearing Therap emphasis: 96 111, 96 255, 96 354/554, 96 356/556, 96 359/559, and at least six credits in selected electives. Electives to be taken from 96 383/583, 96 385, 96 451/651, 96 450, 96 470.
- e. Radio-Television emphasis: 96 111, 96 237, 96 231, 96 234, 96 238 and at least seven credits in selected electives.

96 111 (96 111) Fundamentals of Speech (3 + 0) 3 cr.
Directed study and practice to develop skills in the organization, composition and delivery of extempore speeches. Exercises for the development of critical listening abilities.

96 115 (96 155) Debate Participation (0 + 3) 1 cr.
Opportunity for active participation in debate sponsored by the department. Permission of instructor required. (Usually offered first semester only.)

96 116 (96 116) Debate Participation (0 + 3) 1 cr.
Opportunity for active participation in debate sponsored by the department. Permission of instructor required. (Usually offered second semester only.)

96 161 (96 161) Appreciation of the Drama (2 + 0) 2 cr.
A general survey of the drama as an integral element in human society in its cultural aspects. A course intended to stimulate and develop an appreciation for drama as literature and theatre. May be taken to satisfy the 2 credit Fine Arts requirement for the General Education curriculum.

96 167 (96 167) Theatre Participation (0 + 3) 1 cr.
Opportunity for participation in plays sponsored by the department. Permission of instructor required. (Usually offered first semester only.)

96 168 (96 168) Theatre Participation (0 + 3) 1 cr.
Opportunity for participation in plays sponsored by the department. Permission of instructor required. (Usually offered second semester only.)

96 265 (96 365) Oral Interpretation (3 + 0) 3 cr.
A study of the principles and vocal techniques of oral interpretation, and their application to the various forms of literature. Prerequisite: 96 111. (Usually offered second semester only.)

The Faculty

(As of March 1, 1971)

- HENKEN, WILLARD J.** Dean
B.S., Wisconsin State University-Oshkosh; M.S., Ph.D., University of Wisconsin-Madison.
- ARMSTRONG, GEORGE M.** Assistant Professor of Biology
B.S., University of Wisconsin-Madison; M.N.S., University of Oklahoma; Ph.D., University of Oklahoma.
- BARRETT, RONALD W.** Assistant Professor of Biology
B.A., Gustavus Adolphus College; M.S., University of Minnesota; Ph.D., University of Minnesota.
- BECK, EUGENE J.** Associate Professor of Educational Services
Registrar; Director, Educational Services
B.S., Stout State University; M.S., Stout State University; Ed.D., University of Missouri.
- BOLICK, WILLIAM A.** Instructor of Psychology
B.A., University of Mississippi; M.A., University of Mississippi.
- BOWSER, JOAN M.** Instructor of English
B.A., South Dakota State University; M.A., University of Wyoming.
- BROWN, CONSTANCE L.** Instructor of French
B.A., Bryn Mawr College; M.A., University of Wisconsin-Madison.
- COOTER, STEPHAN L.** Instructor of English
B.A., University of California, Riverside; M.A., University of California, Santa Barbara.
- DOREY, EDWARD A.** Assistant Professor of Physical Education
B.S., Springfield College; M.Ed., Boston University; Ph.D., University of Minnesota.
- FIRKINS, CHARLES J.** Assistant Professor of Accounting
B.S., Marquette University; M.B.A., Marquette University.
- GORMICAN, MARY ANNE** Faculty Assistant-English
B.A., Marian College.
- GREISCH, RICHARD G.** Assistant Professor of Geography
Director, Admissions; Director, Financial Aids
B.S., Wisconsin State University-Oshkosh; M.S., University of Wisconsin-Madison.
- GRIFFITHS, WILLIAM P.** Instructor of Art
B.S., Western Michigan University; M.F.A., University of Wisconsin-Madison.
- HAMMOCK, NANCY K.** Instructor of Physical Education
B.S., Northeast Missouri State; M.A., Northeast Missouri State.
- HANO, STEPHEN A.** Instructor of Sociology and Anthropology
A.A., Orange Coast College; B.A., San Francisco State College; M.A., University of Connecticut.
- HAYDOCK, LINDA E.** Instructor of Philosophy
B.A., Lycoming College; M.A., University of Wisconsin-Madison
- HAYES, ELIZABETH L.** Instructor of Biology
B.A., Marylhurst College; M.S., Marquette University.

- HEADLEY, GEORGINNA** Faculty Assistant-Art
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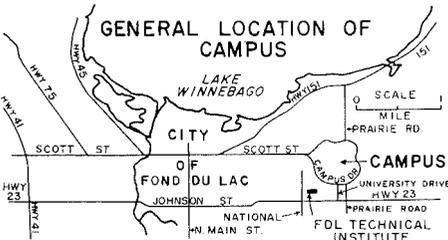
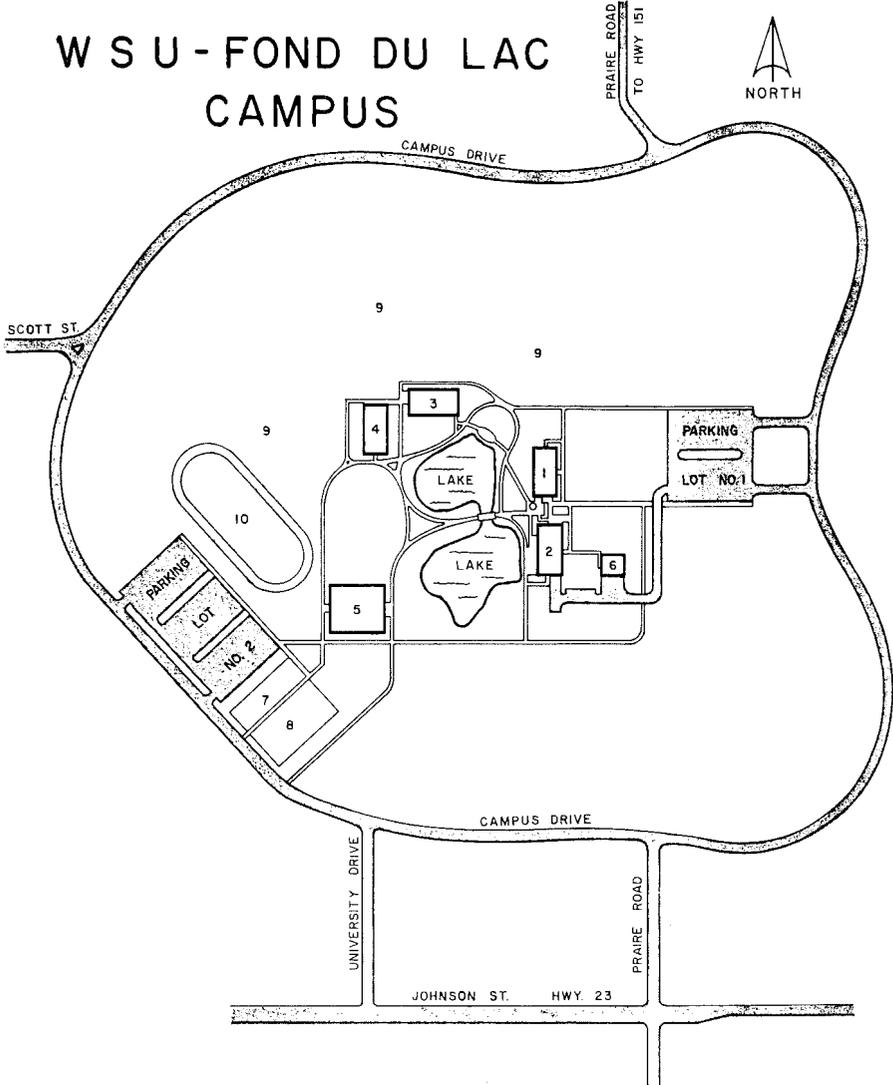
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W S U - FOND DU LAC CAMPUS



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