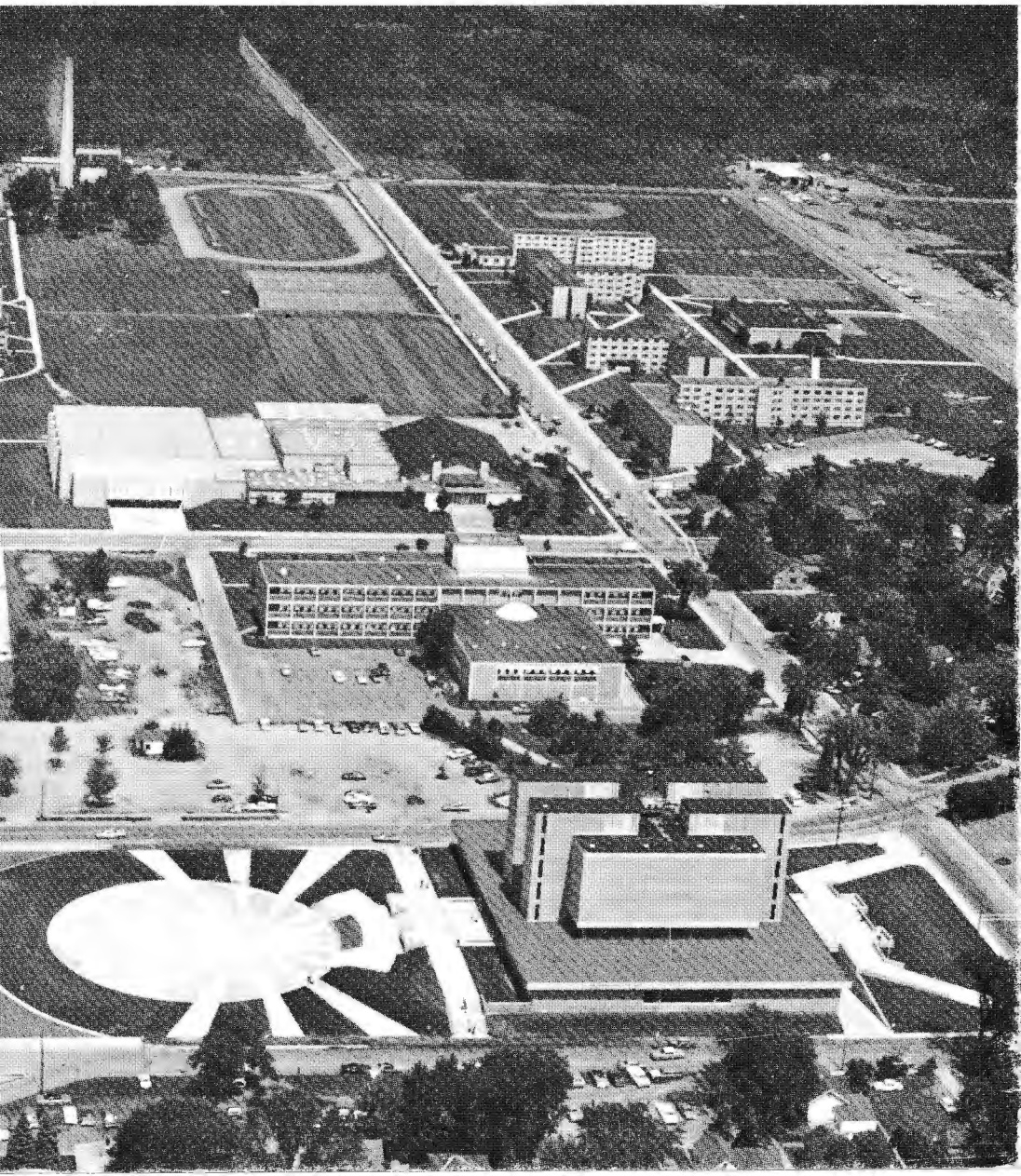


UW-Stevens Point
1972-73 Catalog
Undergraduate/Graduate



**University of Wisconsin-Stevens Point
Is a member of:**

**The American Association of Colleges for
Teacher Education**

The American Council on Education

**The Association of State Colleges
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**The North Central Association of Colleges
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UW-Stevens Point 1972-73 Catalog Undergraduate/Graduate



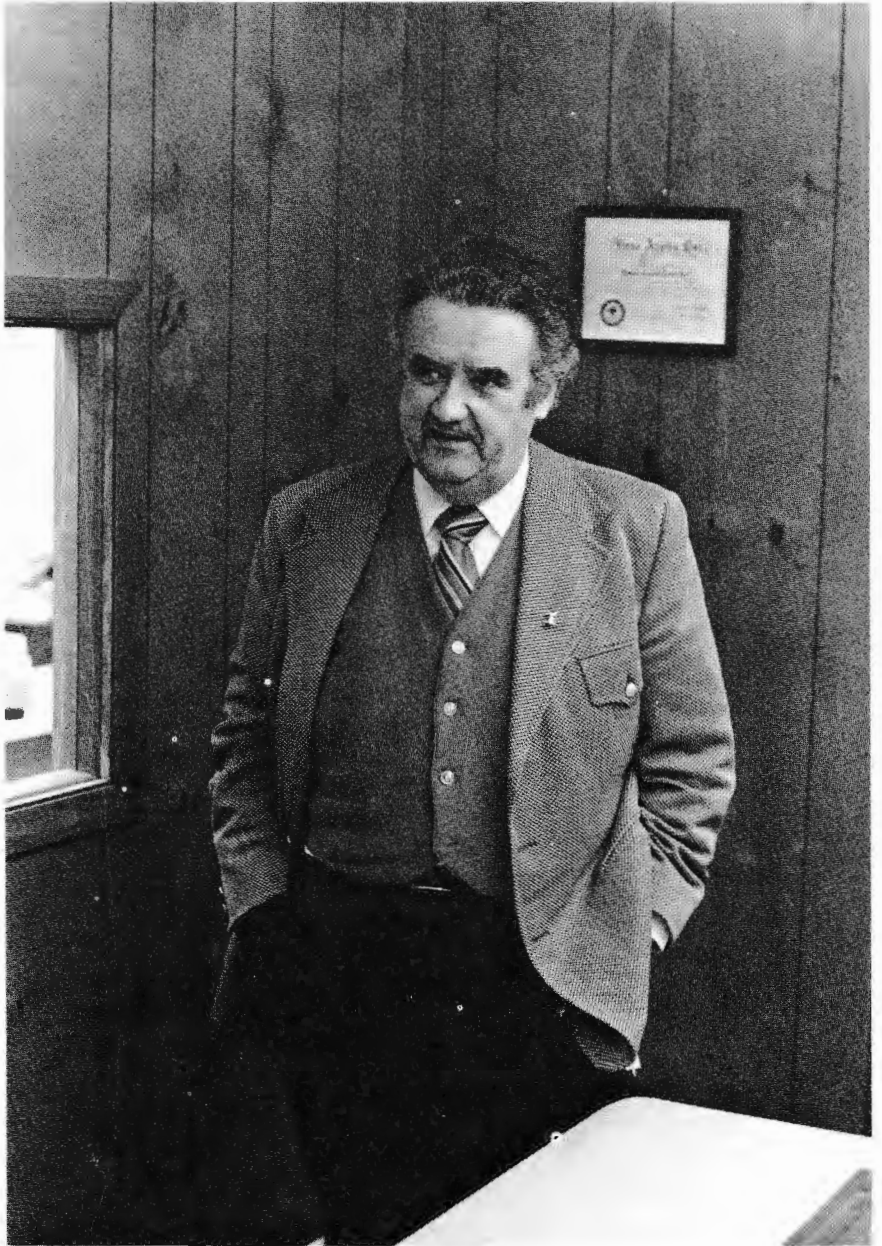
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A record of academic offerings, university policies,
and faculty and administration as of January 1,
1972

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Chancellor Lee Sherman Dreyfus

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Calendar

First Semester

	1972-73	1973-74
New faculty members report	Aug. 21	Aug. 20
Faculty Orientation	Aug. 22-25	Aug. 21-24
Registration (9:00 a.m.-2:00 p.m.)	Aug. 24	Aug. 23
Classes begin	Aug. 28	Aug. 27-28
Labor Day Holiday	Sept. 4	Sept. 3
Thanksgiving Recess (begins 11:45 a.m. Wed.)	Nov. 22	Nov. 21
Classes resume	Nov. 27	Nov. 26
Registration for second semester; ONLY for students registered first semester; classes are cancelled	Dec. 6	Dec. 3
Reading Day (no classes)	Dec. 14	Dec. 13
Final Examinations	Dec. 15-21	Dec. 14-20
Commencement	Dec. 17	Dec. 16
Semester ends	Dec. 21	Dec. 20

Second Semester

New Faculty Orientation	Jan. 10	Jan. 9
Registration (9:00 a.m.-1:00 p.m.)	Jan. 11	Jan. 10
Classes begin	Jan. 15	Jan. 14
Spring Recess (begins noon Sat.)	Mar. 24	Apr. 6
Classes resume (Mon.)	Apr. 2	Apr. 16
Good Friday (no classes)	Apr. 20	
Registration for first semester next year; ONLY for students registered second semester; classes are cancelled	Apr. 30	Apr. 29
Reading Day (no classes)	May 9	May 8
Final Examinations	May 10-16	May 9-15
Commencement	May 13	May 12
Semester ends	May 16	May 15

Summer Session

	1972	1973	1974
Classes begin	June 12	June 11	June 10
Independence Day Holiday	July 3-4*	July 4	July 4-5*
*One day will be made up on a Saturday			
Final Examinations	Aug. 3-4	Aug. 2-3	Aug. 1-2
Commencement	Aug. 4	Aug. 3	Aug. 2

Purpose and Long Range Goals

The primary purpose of the University of Wisconsin-Stevens Point is to provide opportunities in higher education for citizens of the State of Wisconsin. Academic programs are offered in general education, liberal and applied arts, pre-professional and professional study, and adult education. It is the objective of the university that each student, regardless of his curricular program, develop a concept of the signal value of knowledge to mankind and acquire competence in skills of rigorous thinking. He should also achieve an appreciation of the perspective, judgment, and wisdom of a liberally educated person, attain a higher level of creativity, and know the importance of physical fitness. Hence, the goals of the university are stated as characteristics of the individual student, the learner, as he becomes an educated person.

Goals

1. He communicates effectively by developing the skills of observing, listening, and reading critically, and of writing and speaking with clarity and force.
2. He has an understanding of the history of man and the forces and ideas that have affected human societies, including his own; he is aware of the problems and achievements of various civilizations; and he recognizes that all fields of knowledge are inter-related.
3. He shows concern for the ideals of democracy and social justice and for his responsibility to his fellow-man.
4. He attains competence in a particular field of endeavor.
5. He appreciates and values the life of the mind as shown by: his ability to think clearly and rationally; the development of his intellectual curiosity; and his understanding of and participation in the arts, philosophy, and scientific disciplines.
6. He is able to think clearly about what he, a person, is, and about his life's purpose, thus reflecting the beginnings of wisdom.
7. He develops an awareness that learning is a life-long process and increasingly becomes self-directed in continuing his education.

To achieve the purposes of the university, emphasis is given to liberal arts and general education studies, the foundation upon which well-conceived professional and pre-professional curricula are based. Work in the last two years provides appropriate specialization.

The University of Wisconsin-Stevens Point offers a number of programs of instruction. A wide range of majors and minors in the usual academic fields is available. In addition, majors are offered in several special fields: art, business education, communicative disorders, education of the deaf, food and nutrition, forestry, home economics, medical technology, music, natural resources, pulp and paper technology, social science, water resources, and wildlife.

Master's degree programs, primarily for teachers, were implemented in September, 1966. Details of the programs may be obtained by writing to the Dean of the Graduate College.

The Student's Responsibility

All colleges and universities establish certain requirements which must be met before a degree is granted. These requirements concern such things as courses, majors and minors, and residence. Advisers, directors, and deans will always help a student meet these requirements, but the student himself is responsible for fulfilling them. At the end of his course the faculty decides whether or not the student will receive a degree. If requirements have not been met, the degree will be refused until such time as they have been met. For this reason it is important for each student to acquaint himself with the requirements and continue to keep himself informed about them during his university career.

Also, it is necessary in the general administration of a university, to establish broad policies and to lay down certain regulations and procedures by which they may be carried out. It is important that a student understand the policies and know the regulations and procedures he is expected to follow.

The catalog is presented, therefore, not only to enable prospective students and others to learn about the University of Wisconsin-Stevens Point, but to state policies, requirements, regulations, and procedures in such form as will be of help to the student as he goes through the university.

The Campus



The University

The University of Wisconsin-Stevens Point opened in the fall of 1894 as Stevens Point Normal School. In the intervening years, the Normal School, which was originally established for the education of teachers, became Central State Teachers College, Wisconsin State College, Wisconsin State University-Stevens Point; in 1971 it was designated as The University of Wisconsin-Stevens Point. About 9100 students are expected in the fall of 1972.

Location

Stevens Point is located in central Wisconsin 110 miles north of Madison at the intersection of north-south highway U.S. 51 and east-west highway U.S. 10. It is served by Greyhound Bus Lines and is readily accessible by air via North Central and Air Wisconsin Airlines (through the Central Wisconsin Airport at Mosinee) and Mid-State Air Commuter Service.

The city's population is approximately 23,500, and the metropolitan area has a population of about 32,000. The campus is about one mile east of the downtown business district. Originally located on a five acre site, it has now expanded to include over 250 acres.

Buildings

Old Main

The Main Building, the central portion of which is the original building opened in 1894, includes administrative offices, an auditorium, general classrooms, the Department of Communication, and classroom and laboratory facilities for the Department of Natural Resources.

Nelson Hall

Nelson Hall was opened in 1917 as the first dormitory in what was the state university system. It now houses the offices of the departments of English and natural resources, and of the Counseling Center and the Health Service.

Science Building

Located on Reserve Street a few blocks north of the Main Building, the Science Building houses the biology, chemistry, geography, and physics departments. It features a Foucault pendulum, planetarium, facilities for radiation research, greenhouse, live animal room, weather panel with remote recording instruments, and a cartographic reproduction center.

Classroom Center

The Joseph V. Collins Classroom Center is located on Fourth Avenue at Isadore Street. It houses the business education, economics, foreign language, mathematics, political science, psychology, and sociology and anthropology departments, along with general classrooms and faculty offices.

Physical Education Building

The Physical Education Building is on the corner of Fourth Avenue and Reserve Street, just north of the Science Building. It includes the Berg Gymnasium, an indoor practice area, swimming pool, and classrooms. An addition to the building, which more than doubled its size, was completed in 1969. Included in the addition are the Quandt Gymnasium, handball court, larger indoor practice areas, and other specialized facilities.

College of Fine Arts Building

The College of Fine Arts Building, opened in the fall of 1970, is located between Portage and Franklin Streets at Isadore Street. It houses the departments of art, drama and dance, and music. Major features include the Edna Carlsten Art Gallery, the Peter J. Michelsen Concert Hall, and the Warren Gard Jenkins Theater. Also included are art studios, music studios, music practice rooms, and rehearsal rooms variously equipped for band and orchestra, choir, theater, opera, and dance.

College of Professional Studies Building

The College of Professional Studies Building, located on Fourth Avenue between the Science Building and the Collins Classroom Center, opened in the fall of 1971. It houses the School of Communicative Disorders, the School of Education, the School of Home Economics, and the History Department offices. In addition to general classrooms, it provides special facilities for Home Economics laboratories and for the Center for Communicative Disorders.

Learning Resources Center

The James H. Albertson Center for Learning Resources is located in the hub of the academic area, on Reserve Street between Portage and Franklin Streets. It houses the coordinated services of the Library and Instructional Media.

The **Instructional Media Service** is maintained to assist the instructional and research activities of the university in the effective use of instructional technology. Production facilities in motion picture, still photography, and graphic arts are available to serve the instructional staff by providing services to support the selection, production, and utilization of instructional materials and equipment. A laboratory facility, equipped with self-instructional materials, is designed to allow faculty and students to learn the fundamentals of audio-visual equipment operation. Two television studios provide for the production of video tapes and interaction analysis through micro-teaching sessions. Audio instructional tapes will be transmitted from the Media Service area to listening carrels throughout the Learning Resources Center.

The **Instructional Materials Center** houses a collection of basic texts used in the public schools plus a collection of study prints, maps, globes, study kits, simulation games, and sources for locating other instructional materials. The non-print collection for the university is also housed in the IMC. This includes holdings in 16 mm films, filmstrips, transparencies, tapes, and single concept films.

The **University Library** has a book collection of more than 225,000 volumes. It holds journal files of over 2,000 titles which offer backfiles coverage on several titles into the 19th century. The Library is an official federal documents depository containing a rich selection for the 1950's and 1960's, including an extensive congressional series from the year 1825 and a complete microprint edition of United Nations publications. In cooperation with the State Historical Society, the Library maintains an Area Research Center for 17 counties in north central Wisconsin. Another strong area of the collection is the large and diversified files of national and state newspapers.

Interlibrary Loan, one of the services of the Library Reference department, borrows books for faculty and graduate students and sends for photoduplication of materials for faculty and students.

Student Services Center

The Byron B. Park Student Services Center is located in the former Library building on Fremont Street just north of the Main Building. It houses the offices of Admissions, Registration and Records, Student Housing, Student Financial Aids, Controller, Cashier, Accounting, and Data Processing, and the offices and facilities of the Military Science Department.

University Archives, located in the Student Services Center, houses and services for campus use the records pertinent to the history of the university, including a collection of university and faculty publications and a file of the minutes and proceedings of faculty meetings.

Gesell Institute for the Study of Early Childhood

The Gesell Institute for the Study of Early Childhood is located on Reserve Street just north of the Main Building, and is a department within the College of Professional Studies. There are 225 children in the Institute, ranging from five months to teen age, in an innovative developmental learning center. Experiences are provided for university students to work with early childhood and school age youngsters. This is where the university student transforms classroom theory into concrete knowledge in an experiential teaching situation.

The Institute welcomes visitors from the university and provision is made for observation and participation. Video-taping and micro-teaching are offered as evaluative experiences in the teacher preparation program. Research and providing professional laboratory experiences in a clinical, cross-disciplinary setting serve to implement the mission of the university. These are the primary thrusts of the Gesell Institute.

Home Management House

The Home Management House across from the Main Building on Main Street gives home economics majors an opportunity to live in a family unit. Several young women live there each semester with a member of the department and manage the house as a family group.

Heating Plant

The Heating Plant, located on Maria Drive between Isadore Street and Reserve Street, houses the heating facilities for the entire university. The Office for the Director of Buildings and Grounds, the Purchasing Office, the Protection and Security Office, and the Switchboard are also located here.

University Center

The University Center serves as a unifying force in the student's co-curricular life. It is a community center organized for students, faculty, alumni, and friends of the university. The Center provides cultural, social, and recreational programs which supplement classroom education.

The Center includes dining facilities, a snack bar, games room, a television lounge, University Book Store, offices for major student organizations, publications offices, and several meeting rooms available for use by student and faculty groups. Special services including lost and found, duplicating, and poster production are also located in the Center.

Memorial Forum

The Memorial Forum is located on the mall between the Albertson Center for Learning Resources and the Fine Arts Building.

Campus Construction

In the spring of 1972 ground was broken for the construction of an addition to the Science Building. It will provide special facilities for Pulp and Paper technology, Experimental Psychology, and Astronomy, in addition to classrooms and laboratories.

Ground was also broken in the spring of 1972 for a building to house the College of Natural Resources and the Biology department. It will be located on Franklin Street, opposite the Memorial Forum.

An addition to the University Center, which will double the size of the present facility, is to be started in the summer of 1972.

Residence Halls

Fourteen residence halls are homes for approximately 3,700 students. The halls are financed on a self-liquidating program with all costs being met by fees paid by the students. No tax money is used in their construction or maintenance. The halls provide study, sleeping, and living accommodations for each student. In addition, lounge and recreational facilities are provided in each building. These facilities are used extensively for educational, social, and recreational activities.

Residence Centers

Residence Center facilities are provided in each residence hall complex serving the students living in that complex. DeBot and Allen Centers, and a portion of the University Center serve the respective complexes. Food service, snack bars, lounges, study rooms, student offices, and private dining rooms provide facilities for student programming. The student programs are of an educational, social, and cultural nature and include such activities as films, art exhibits, dances, faculty discussions. Residence Center programming groups consist of representatives from each of the

respective residence halls. This program is under the direction of the Housing Office.

The center buildings are financed on a self-liquidating program with all costs being met by fees paid by the students that are served by the respective center building. No tax money is used in their construction or maintenance.

Parking

Limited parking facilities are available for faculty, staff, and students, both resident and commuting. To park on any of the off-street parking areas provided by the university, it is necessary to display a parking permit sticker on the vehicle. This sticker may be obtained for a fee by making application at the Office of Protection and Security, and after receiving approval, making payment of the fee at the cashier's office.

Students living in residence halls must receive initial parking lot assignments through their residence hall director. Faculty and staff will be assigned lots as close to their class and office locations as space permits. A copy of specific parking regulations may be obtained at the Office of Protection and Security.

Although new lots are being developed, the expanding university population makes on-campus parking a growing problem. Resident upperclassmen have priority for on-campus parking.

Office Hours

The administrative offices at the university are open year-round from 7:45 a.m. to 11:45 a.m. and from 12:30 p.m. to 4:30 p.m. Monday through Friday. The cashier's and registrar's offices and mail services are also open during the noon hour. All offices are closed on Saturday.



Student Life, Activities, Services

Where Students Live

The university regulation governing where students may live is as follows: Freshmen and sophomore students are required to live in residence halls. Exceptions are made for married students, veterans, students who reside with their parents or at the home of immediate relatives and students 21 years of age or over. Students having attained junior standing (56 or more credits) or completed four semesters or are over 21 years of age are eligible to select other housing accommodations if they desire. (To be eligible because of age, a student must be 21 as of the first day of classes of the semester for which he selects the "other" housing, or he must reach the age of 21 during that semester.) Housing, both in residence halls and approved housing facilities does not discriminate on the basis of race, religion, or national origin.

Students will find that the individual attention, counseling, programs, and facilities available in the residence hall can be of major assistance in establishing their university career on a firm foundation. Residence hall living is an integral and dynamic part of the total educational program. Staffed with professionally trained personnel, each residence hall represents a unique student community. The community, operating with its own elected student governing and programming bodies, assumes major responsibility for the direction and success of the year's activities. As a result, the residence hall becomes much more to the serious student than simply a place to sleep. It is both a living and a learning center. In a very real sense, it is a course of study in itself. Educational programs, social programs, athletic programs, and a wide variety of activities provide opportunities for students which contribute significantly to their total educational experience at this institution. The residence hall program is consistent with the objectives and goals established for students at this university.

Students living in residence halls are provided twenty-one meals per week at one of the residence centers. Residence hall contracts, which include room and board, are for the entire academic year.

Freshmen and sophomores unable to be accommodated in residence halls must select accommodations from off-campus approved housing. A com-

plete list of available facilities may be obtained from the Housing Office. Under the approved housing agreement, the householders promise to meet specific standards of health, safety, furnishings, etc. The standards required by the university meet or exceed the standards provided in the Stevens Point Municipal Housing Code. Students living in approved housing may expect direct university assistance if these standards are not met. Off-campus housing contracts are for the semester or the academic year.

Approved housing is located through the community. The facilities vary in size from accommodations for one student to 100 students. These accommodations can be single or multiple rooms, apartments, etc. and may or may not include cooking facilities. Students residing off-campus may purchase a meal ticket for a semester or academic year and eat at one of the centers.

Students eligible for accommodations other than residence halls or approved housing may obtain a list of available unsupervised facilities from the Housing Office. The landlords listed must be licensed by the city of Stevens Point, and must have signed a statement agreeing not to discriminate on the basis of race, religion, or national origin. These are the **ONLY** agreements between these unsupervised facilities and the University of Wisconsin-Stevens Point. Students who are **over 21** and students with upperclass status (junior-senior) may select facilities from this listing. It should be clearly understood that these accommodations are not inspected or regulated by the university. The list is maintained only as a service for students seeking these accommodations. Only APPROVED housing is under contract with the university.

Student Health Service

The purpose of the Student Health Service is to care for acute and chronic illness and injury, and to aid students in developing optimal physical and mental health care patterns for adult life.

The staff includes the services of two full-time physicians, three registered nurses, a medical technologist, and two secretaries. It is located in the basement of Nelson Hall, and the hours are from 7:45 a.m. to 4:30 p.m. Monday through Friday.

All graduate and undergraduate students registered on the Stevens Point campus who have paid the activity fee and have their health examination forms on file at the Health Service are eligible for care while the university is officially in session. Services and medications obtained at the Health Service incur no additional expense for the student. However, expenses for additional health care such as X-rays must be covered by the Student Health Insurance Program made available by the Student Senate or by some other form of insurance. Forms can be obtained at the Student Senate office or the Student Activities office.

Counseling Center

Counseling services are available for all students at the Counseling Center located in Nelson Hall. Professionally trained counselors assist students with (1) personal or social adjustment concerns; (2) education difficulties, e.g., selecting an appropriate educational major, or problems with reading and study skills; (3) vocational planning; and (4) draft information and counseling. Standardized tests are used frequently to aid the student to better understand himself and evaluate his goals. Occupational information is available for review by the student at his leisure. Counselors are available from 8:00 a.m. to 4:30 p.m. Monday through Friday. There is no charge for these services to any student enrolled in the university.

Center for Communicative Disorders

The Center for Communicative Disorders is located in the College of Professional Studies Building. The center staff provides students with a variety of services. It conducts extensive speech and hearing testing of incoming students in order to identify and aid those students who may need help to improve their communicative skill. Students are encouraged to contact the center for personal assistance with their speech and/or hearing problem.

The diagnosis and treatment of speech and hearing difficulties are also extended to the people of Wisconsin. Some of the problems encountered in the center are stuttering, articulation defects, cerebral palsy, cleft palate, voice disorders, hearing problems, language disorders, and aphasia.

The center, in conjunction with its educational program, provides practicum experience for students majoring in Communicative Disorders and in Education of the Deaf.

News and Publications Service

The News and Publications Service disseminates information concerning the offerings and activities at this university through the mediums of newspapers, radio, television, and publications of all types.

Special services include the release of news stories about students for their home town papers, scheduling of students and faculty members for appearances on area television programs, and publication of the faculty newsletter which is distributed each week.

Publications such as the University Catalog, Summer Session Catalog, Graduate Bulletin, monthly Calendar of Public Events, special bulletins, department brochures, fliers and programs are produced by this office.

Alumni Association

The UW-Stevens Point Alumni Association is committed to a two-fold purpose: service to the alumni, and through them, service to the university.

These services are effectively implemented in regular and special programs, and publications.

The Alumni Association co-sponsors an annual Continuing Education Day for Women on campus, develops alumni Homecoming activities, and hosts a "beer and brats" reception for graduating seniors in the spring.

The Alumni Association conducts the university Annual Fund Drive, which seeks support from alumni and the community for scholarships, loans, classroom equipment and additional funding for on-going university projects. Services provided by the Alumni office include program assistance for Alumni Association chapters, alumni record services and cooperation with campus organizations, including the UWSP Foundation.

University Placement Center

To assist graduating seniors and alumni of the university in selecting their initial employment following graduation and to locate promotional opportunities when desired, the following services are provided:

- (a) Initiating of a placement file to contain information pertaining to each graduating senior including his references and recommendations supplied by the seniors. This process should begin the first semester of the junior year and be up-dated periodically.
- (b) Compiling of credentials for employing officials of materials collected in the placement file.
- (c) Counseling with graduating seniors regarding interviewing techniques, sources of positions relating to their interests, aptitudes, qualifications and preferences.
- (d) Maintaining a current library of employment sources and opportunities including brochures, job descriptions, annual reports, community descriptions, etc. to assist graduating seniors or alumni in their selection for good employment opportunities.
- (e) Scheduling interviews for graduating seniors, or alumni on campus or at convenient locations with employing officials.
- (f) Up-dating of placement file periodically or at request of candidate.
- (g) Expanding the sources of placement opportunities to include all geographic areas as well as employment interests of any graduating senior or alumnus.
- (h) Writing and printing of personal and academic resumes.

Career counseling services are open to all students as well as to graduating seniors and alumni.

New Student Orientation

During the summer months prior to his entrance as a freshman, the accepted applicant and his parents are expected to participate in a **two-day** orientation program. This program is designed to assist new students in adapting to university life as quickly and as easily as possible; to know the university, its customs and traditions, its curriculum, its policies, its personnel (both student and faculty) and its student life.

Opportunities will be provided for each new student to meet with an academic adviser and prepare his class schedule for the first semester. Students will also have opportunities to meet upperclass students as well as other new students in small discussion groups.

A special program has been planned for parents with emphasis placed on that which will be of most interest to them. Presentations on such topics as student health programs and health insurance, financial aid opportunities, housing and dining programs and parent-student understanding through the college years are made by the faculty and staff of the university.

While on campus, new students and their parents will be housed in residence halls and will use the dining facilities at the university.

Student Conduct

The following statement concerning rights and rules of conduct for students of Chapter 37 Units of the University of Wisconsin System was promulgated by the Board of Regents in Resolution #3054, adopted on January 18, 1968 and amended on June 13, 1969, and on September 26, 1969.

Although the Wisconsin State University system is committed to the full support of the constitutional rights of its students, including due process in student disciplinary matters, it also has an equal obligation to protect its educational purpose and the interests of its study body. Each university must, therefore, at all times be concerned with the actions of individuals or groups that are in conflict with the welfare and integrity of the institution or in disregard of the rights of other students or faculty. Students and student groups are expected to cooperate in avoiding conduct which is thus prejudicial to the university or its students.

The State of Wisconsin extends the benefits of admission to its institutions of higher education to those persons who meet certain academic qualifications and standards of health, character and prior conduct. Admission to a university confers benefits beyond those available to all citizens, but commensurate with these are additional responsibilities.

When a student enters the Wisconsin State University system it is assumed that he has serious purpose and a sincere interest in his own social and intellectual development. He is expected to learn to cope with problems with intelligence, reasonableness and consideration for the rights of others; to obey laws and ordinances of the nation, state and community of which he, as well as his university, is a part; and to conduct himself peaceably in espousing changes he may consider necessary. As he prizes rights and freedoms for himself, he is expected to respect the rights and freedoms of others.

Students are subject to federal, state and local laws as well as university rules and regulations. A student is not entitled to greater immunities or privileges before the law than those enjoyed by other citizens generally. Students are subject to such reasonable disciplinary action as the president of the university may consider appropriate, including suspension and expulsion in appropriate cases, for breach of federal, state or local laws or university rules or regulations. This principle extends to conduct off campus which is likely to have adverse effect on the university or on the educational process or which stamps the offender as an unfit associate for the other students.

The universities recognize the right of the individual student or of student groups to disagree with national, state, local and administrative or faculty policies and positions. Students have the right, furthermore, to express their disagreement on issues which have captured their interest, and to assemble peaceably for that purpose, subject to reasonable restrictions as to place and time.

However, the following actions, among others, are specifically prohibited:

- a. Interference with accepted functions or activities of the university or with its educational or service programs either by breach of the peace, physical obstruction, or coercion, threats or intimidation, or by noise, tumult or other disturbances, whether the act of interference be done on or off the campus.
- b. Unauthorized occupancy of university facilities or blocking access to or from such areas.
- c. Interference with approved university traffic (pedestrian or motor vehicle).
- d. Infringement of the rights of students, faculty, staff, and/or other authorized persons to gain access to any university facility for the purpose of attending classes, participating in interviews, university conferences and/or other university activities.
- e. Picketing, or demonstrating, with the use of obscene or indecent language, or with signs or banners containing such language or of such size, material or construction as to create a hazard to persons or property.
- f. Interference, whether physical or otherwise, with any disciplinary procedures of any university, branch campus, summer session or other facility of the Wisconsin State University System, or intimidating, threatening or assaulting

any proposed witness, administrative officer or faculty member of said System in the performance of his duties, or to influence his official action except by evidence or argument presented at the hearing, or of any member of any Tribunal, hearing agent, prosecutor, defendant or defense counsel, or other person performing official duties relating to said procedures, whether such act be committed on or off campus, before, during or after hearing.

While this by-law is applicable to all of the State Universities, the Board of Regents recognizes that there are appreciable differences in tradition, environment, mission, clientele, and institutional character. Accordingly the president of each university is authorized to establish such additional rules and regulations for student conduct, consistent with the by-laws of the Board of Regents, as he may determine to be appropriate for the needs of the university.

Power is hereby conferred upon the president of each state university to suspend or expel students for misconduct, and for such other causes as may be prescribed from time to time in these by-laws.

Without limiting its generality by specification, the term "misconduct" as herein used shall include violation on campus of federal, state or local law or by-laws of the Board of Regents of State Universities or university by-laws, rules or regulations, including the prohibitory provisions of this by-law; and also violations of such laws, by-laws, rules or regulations occurring off campus which are likely to have an adverse effect on the university or on the educational process carried on at the university or which stamp the offender as an unfit associate for the other students.

A student charged with conduct which may subject him to substantial disciplinary action should of course be afforded reasonable notice of the offense with which he is charged and the general nature of the evidence on which the charge is based, a reasonable opportunity to prepare and present any defense he may have, an adequate and fair hearing, and generally, procedural due process of law. He should be dealt with fairly in all respects; and the severity of the discipline when guilt is established should be reasonably commensurate with the gravity of the offense. If in any case the president shall determine that the best interests of the university or of the other students require it, the president may suspend the accused student temporarily, pending prompt determination as to his guilt.

This university feels strongly that it must protect the right of the teacher to teach and the student to learn. Students who, through procedural due process, are found to be in violation of items a, b, or d above will face suspension for one academic year.

Other offenses against good conduct which will be sufficient cause for disciplinary action (and may result in suspension) are: the possession or consumption of intoxicating or fermented malt beverages in residence halls or in approved off-campus housing, the illicit use or possession of narcotics or drugs, gambling, falsification of information, dishonesty and disorderly or undesirable conduct.

Guidelines for Student Disciplinary Procedure

The following guidelines were adopted by the Board of Regents in Resolution #3670 on November 13, 1970.

Section 7.10 of the By-Laws of the Board of Regents of State Universities contains the following provision:

“A student charged with conduct which may subject him to substantial disciplinary action should of course be afforded reasonable notice of the offense with which he is charged and the general nature of the evidence on which the charge is based, a reasonable opportunity to prepare and present any defense he may have, an adequate and fair hearing, and generally, procedural due process of law. He should be dealt with fairly in all respects; and the severity of the discipline when guilt is established should be reasonably commensurate with the gravity of the offense. If in any case the president shall determine that the best interests of the university or of the other students require it, the president may suspend the accused student temporarily, pending prompt determination as to his guilt.”

For the guidance of the Presidents in meeting their responsibilities in the area of student discipline, compliance with the following guidelines is required to the end that certain minimum standards of procedure shall prevail at all of the State Universities.

The Board of Regents reserves the right to suspend the application of provisions of these Guidelines and take direct control of disciplinary proceedings at the State Universities or at a Branch Campus or elsewhere in any case where the Board may deem such action appropriate; but that will normally be done only on the request of the President of the University or in situations when questions of system-wide or general public concern are presented or exceptional problems of hearing procedure arise out of the large number of students involved, the complexity of issues, or otherwise, or for any other reason the Guidelines procedure appears inadequate or inappropriate. The Board of Regents may delegate in whole or in part the exercise of this reserved power to the Executive Director of the State Universities System.

These guidelines shall apply to all cases in which a student is charged with conduct which may subject him to substantial disciplinary action including academic misconduct such as cheating or plagiarism. As thus used, the words “substantial disciplinary action” may include expulsion from the university, suspension from the university, denial of a degree to which the student would otherwise be entitled, and other penalties likely to involve comparable hardship to the student. Conversely these guidelines need not apply to action on account of failures or inadequacies in academic or scholastic achievement, such as failure to earn passing grades or meet the academic requirements for a degree or for continuation in the university, nor to non-attendance at classes.

1. Initiation of Charges.

1.1 The President of each campus shall designate a person as “Investigating

Officer," who may, after investigation, initiate charges against any student for violation of University rules or regulations. The Investigating Officer will if warranted prepare and cause to be served upon the student a statement of charges. Nothing herein shall change the right of the administration, after investigation and after giving the student an opportunity to make any statement in his own behalf, to impose disciplinary punishment less severe than suspension.

1.2 Statement of Charges.

A statement of charges shall contain:

- (a) A brief summary—giving dates, time, place, and events— of the facts or conduct on which the charge is based.
- (b) A citation to and quotation from the rule(s) alleged to have been violated.
- (c) A copy of these rules.

1.3 Service.

A copy of the statement of charges shall be served on the student charged in person or by mail to his address on file with the registrar. Where service is by mail, the date of mailing shall be the date of service. Each student shall keep the registrar notified in writing of his current address.

2.1 Appointment.

Hearing Examiners shall be appointed by the Executive Director of the Wisconsin State Universities, when requested by the President of each campus. These positions may be filled by hearing examiners from the various state agencies. The University shall reimburse the agency for the salary and expenses of the examiner on a proportional basis but the examiner shall remain an employee of his parent agency. The appointment of the hearing examiner from other state agencies shall be in compliance with secs. 16.285 and 20.901, Wis. Stats.

2.2 Duties.

The duties of the Hearing Examiners, upon assignment to particular cases shall be as follows:

- (a) Take custody of the case file and papers.
- (b) Schedule hearings in accordance with these rules on the statement of charges.
- (c) Issue subpoenas and administer oaths.

(d) Conduct hearings, take testimony, and other evidence and take such other action as may be appropriate in accordance with these rules.

(e) Transmit a transcript or his summary of the evidence, recommended findings of fact and decision, along with the file, record, exhibits, and other materials to the president.

3. Pre-Hearing Procedure.

3.1 Request for Hearing.

A student charged under sec. 1 has 10 days from the day of service to request a hearing in accordance with this section. This request shall be made in writing and directed to the president and shall also include an answer to the charges.

3.2 The answer shall specifically admit, deny, or explain each of the facts alleged in the statement of charges, unless the student is without knowledge in which case he shall so state, such statement being a denial. All allegations in the statement of charges, if no answer is filed, or any allegation in the charge not specifically denied or explained in an answer filed, unless the student states in the answer that he is without knowledge, are deemed to be admitted to be true and shall be so found by the Hearing Examiner unless good cause to the contrary is shown.

3.3 If a student does not request a hearing within the 10-day period specified above, the President may accept the allegations in the statement of charges as true and expel, suspend, or impose other punishment on the student. Notice of such action shall be served upon the student and become effective upon service in accordance with sec. 1.3.

3.4 Appointment of Hearing Examiner.

When a request is made for a hearing the Executive Director of the State Universities shall appoint a hearing examiner in accordance with sec. 2.1. When appointed, the examiner is assigned to a particular case or cases and takes custody of the file. Notice of appointment of the examiner shall be sent to the student and to the Attorney General.

3.5 Schedule of Hearings.

The hearing examiner shall schedule the hearing as expeditiously as possible. The hearing shall be held on the date scheduled, except for good cause shown.

3.6 Failure of a party to proceed in a duly scheduled hearing shall constitute a default. The examiner may make a recommendation for either dismissing the charges, or upon a prima facie showing make a recommended finding that the student committed the violation(s) charged.

4. Hearing Procedure.

4.1 Burden of Proof.

The burden of proof shall be upon the administration to establish by substantial evidence the alleged conduct violative of University rules or regulations.

4.2 Issues: Prior Criminal Conviction.

Where the basis of the charge is conduct for which the student has been convicted in criminal proceedings the administration may introduce a certified copy of the judgment of conviction. The judgment of conviction shall constitute presumptive evidence of the commission of the acts charged in the criminal proceeding.

4.3 Record of Hearings.

A record of the testimony and a file of exhibits shall be made of all hearings, under sec. 3.1. Either party may, at his own expense, have the record transcribed. Nothing herein shall preclude either party from tape recording the proceedings.

4.4 Public Hearings.

Hearings before the hearing examiner shall be public unless the student whose case is being heard requests a closed hearing or the examiner determines in extraordinary circumstances that it is necessary to hold a closed hearing to preserve order or to protect the reputation of innocent persons. A record shall be made of the reasons for closing any hearing.

4.5 Procedural Rights.

The student shall have the right to confront and cross-examine witnesses against him, the right to present witnesses and to be heard on his behalf, the right to be represented by counsel at his own expense, and the right to a transcript of the proceedings at his own expense.

4.6 Contempt Powers.

Hearing examiners are empowered to maintain order and decorum and shall have the power to eject disrupters and to impose discipline upon any student for misconduct occurring in his presence which impairs the proceedings.

5. Decision and Appeal.

5.1 Decision on Transcript.

When requested by the president, the examiner shall file with such person, a transcript of the proceedings together with his recommended findings of fact and decision. The president may decide the case solely on reading such record.

5.2 Decision on Summary and Recommendations.

Whenever it is impracticable for the president to hear or read all the evidence, the final decision shall not be made until a summary of the evidence prepared by the examiner, together with his recommendation as to the findings of fact and the decision in the proceeding has been prepared and furnished to each party.

5.3 Exceptions.

Either party has ten days after the date of service of the examiner's summary and recommendations under section 5.2 to file written exceptions thereto with the president. If no exceptions are filed to the summary and recommendations within the prescribed time the president may adopt the recommended findings and decision as his own, but shall do so in writing.

5.4 Arguments, Briefs.

If either party files exceptions under section 5.3, the president shall afford the parties an opportunity to file briefs and present oral argument.

5.5 Decision.

The president shall render written findings of fact and decision in each case.

5.6 Decision Final.

The decision of the president shall be final. The Board of Regents, however, reserves jurisdiction to review upon its own motion, any decision. Notice of such review shall be served within 30 days of the president's decision. In a case where the Board of Regents elects to review on its own motion, the decision of the president shall not be final.

5.7 Effective Date.

The final decision is effective upon service in accordance with sec. 1.3.

5.8 Determination of Eligibility for Higher Educational Aids.

In every case where the examiner recommends a finding that the student has committed acts which result in the recommendation of discipline he shall also recommend findings and decision on the following questions for the purpose of determining eligibility for aids under sec. 36.43, Wis. Stats., and sec. 504, Public Law 90-575.

- (a) Did the offense involve the use of (or assistance to others in the use of) force, disruption, or seizure of property under the control of the University.
- (b) Was the offense committed with intent to prevent students or employees at the University from engaging in or pursuing their duties.
- (c) Was the offense of a serious nature.
- (d) Did the offense contribute to a substantial disruption of the University.

For purposes of determining eligibility under sec. 205 of the Fiscal Year 1971 Appropriation Act for the Department of Health, Education and Welfare, the examiner shall also recommend findings and decision on the following question:

- (e) Did the offense involve the use of (or assistance to others in the use of force or the threat of) force or the seizure of property under the control of an institution of higher education.
- (f) Was the offense committed with intent to require or prevent the availability of certain curriculum, or to prevent the faculty, administrative officials, or students in such institution from engaging in their duties or pursuing their studies at such institution.

A copy of these recommended findings shall be forwarded to the president along with the examiner's recommended findings of fact and decision.

6. Status Pending Determination of Charges.

6.1 Temporary Suspension.

A student may be temporarily suspended, pending a full hearing, for reasons relating to his safety or well-being or for reasons relating to the safety or well-being of members of the University community or University property. Prior to such temporary suspension the president shall:

- (a) Make an initial evaluation of the reliability of the information received and make such further investigation as the circumstances permit.
- (b) Determine whether the conduct reported is of such a nature as to require that the student be immediately suspended for his own safety or well-being or for the safety or well-being of members of the University community or University property.
- (c) Provide the student, if possible, with an opportunity to appear before the president to be informed of the nature of the offense, and to make such statement as he may wish to make before the decision is reached on a temporary suspension.

6.2 Resignation Under Charges.

Where a Statement of Charges has been served, the student, prior to hearing, shall have the option of submitting a written resignation. In the event of such resignation the president shall impose such penalty as he deems appropriate consistent with the Statement of Charges. Nothing herein shall limit the right of the administration and the student to agree to a penalty on a plea of "no contest." Any such agreement shall be reduced to writing as an order of the president and shall conclude the case.

6.3 Pending Charges.

During the period charges are pending, a student under charges unless suspended, shall continue to have the rights and privileges accorded other students. However, grades, records, transcripts, or diplomas shall be withheld pending determination of the charges. A student may lose credit for the semester in which the alleged misconduct occurred if he is found guilty of the conduct charged and the punishment imposed so specifies.

Hours for Freshmen

There is a program of hours for freshmen who have experienced academic difficulty during their high school years or during the first semester of college.

It is expected that all new students will be aware of this regulation and will live by it should they fall within the following guidelines:

1. All male and female first semester freshmen who enter on academic probation will be subject to freshmen hours. All other freshmen will not be subject to freshmen hours for their first semester.
2. Freshmen hours will be midnight on Sunday and 11:00 p.m. on Monday through Thursday.
3. All male and female freshmen whose grade point average is less than 1.80 for the first semester will be subject to freshmen hours for the second semester. Transfer students will be treated in the same manner as continuing students.
4. Students who are required to adhere to these regulations and who violate them will be subject to academic suspension.

The Co-curricular Activities Program

The university provides for student participation in the many varied activities of the co-curricular program. This program includes intellectual, cultural, recreational and social experiences. Through these activities, students are given an opportunity to apply classroom knowledge, to develop their talents, to broaden their interests, and to meet new people. In some instances the student may register for credit in these activities. In such a

situation the activity, being curricular rather than co-curricular, is counted as a part of the regular study and class program, and may not be added if the number of credits will be in excess of the total permitted. When a student is registered for credit, his obligations are the same as in any other course, and at the end of the semester he will be graded on his participation.

Regulation of Participation in Activities

Activities are important features of a college education, and students are encouraged to add to their personal, social, and professional experience and enjoyment by participating in them. However, experience has shown that students need to regulate their study and activities wisely if they are to maintain the required academic standing. University policy suggests that new students and students on probation should be especially careful in selecting the activities in which they will participate. It is recommended that during his first semester a student participate in no more than two co-curricular activities and that any student on probation participate in only one.

The week preceding semester examinations and the period of semester examinations is considered as a closed period during which no activities, practices, or rehearsals are participated in or sponsored for public presentation by the university. Further, no organized meetings or social activities may be sponsored by any university organizations during the above period, with the exception of interscholastic athletics.

The University Activities Calendar

The University Activities Calendar is published in the fall by the News Service in cooperation with the Student Activities Office. The calendar attempts to list all of the major events in the co-curricular program during the academic year. Organizations wishing to include activities for the year ahead are urged to submit their events to the Student Activities Office no later than April 20.

Recognition of Student Organizations

Students at the university bring to campus a variety of interests previously acquired and develop many new interests as members of the academic community. They are free to organize and join associations to promote their common interests. University recognition of a student organization does not imply an endorsement of the organization's beliefs. Information regarding the formation of a new organization is available in the Student Activities Office in the University Center. Formal recognition is granted from the Student Assembly through the Organization Recognition Committee. A 30 day+ grace period during which new organizations are granted full privileges is a standard policy designed to aid students in forming new groups and in submitting the proper materials for final recognition.

Student Governing Organizations

Student participation in the development of institutional policies and regulations is encouraged at the university through the **Student Legislature**. The Student Legislature is divided into a **Senate** with 23 members (elected by housing regions) and an **Assembly** (with 1 representative from each student organization which desires a vote). A committee system develops policies and allocates the student activity fee for approval of the two houses of Student Legislature.

The **Residence Hall Presidents' Council** provides communication and representation for the students of all the university residence halls on campus. The Council membership is made up of the Presidents of the residence halls and meets weekly to discuss ideas and common problems, to plan workshops for hall officers, and to formulate and recommend possible regulations and guidelines for residence hall living. Hall Presidents, Council serves as a vital communication link through its representation from the residence halls to the University Student Legislature. Thus, the Council serves as a liaison to the Student Legislature for individual student concerns.

Student Programming Groups

The **University Activities Board** is an all-campus programming board comprised of students that offer a wide variety of programs (traditional and innovative) for the student's interests. It incorporates fifteen committees:

Homecoming—Fall semester.

Winter Carnival—Winter/Spring semester.

Special Events—Concerts and Special Programs.

Coffeehouse—Small Circuit, Folk, Blues, Country and Rock Singers.

Pop Films—Hollywood Type.

Cinema Arts—Classics, Experimental, Foreign and Documentary Films.

Fine Arts—Art Exhibits and the Arts and Crafts Room (the Rut Cellar).

Tours—Overseas and U.S.

Trippers—Outdoor Trips, Hiking, Canoeing, Rock Climbs, Horseback Riding, etc.

Audio Visual—Audio Visual Equipment and Programs Using Equipment.

Games—Tournaments, Chess, Pool, Pinball, Cards, etc.

Public Relations—Intra-board, Student and Community.

Property—All Board Equipment.

Publicity plus four executive positions.

It is open to all students and offers enjoyable insight into the world of programming.

In each residence hall, a **Hall Council**, composed of hall residents, is responsible for educational, social, and cultural programs within that hall. In addition to the elected officers there are numerous committee positions available in various capacities.

Each residence hall complex, consisting of residence halls and a residence center facility, has a **Residence Center Program Board**. This student board plans an extensive program of activities which include movies, dances, jam sessions, speaker programs, ski trips, etc. The residence hall complexes are made up of the following halls:

- South Center (University Center)—Steiner, Delzell
- Allen Center—Hyer, Roach, Smith, Pray-Sims
- DeBot Center—Neale, Baldwin, Schmeeckle, Burroughs, Knutzen, Watson, Thomson, Hansen

Every residence hall elects a representative to participate in the **Residence Hall Council** which programs educational, cultural, social, and special events for residents in all residence halls on campus. These include the Academic Bowl Competition (similar to College Bowl), RHC Week, film festivals, Pride Week, Muscular Dystrophy drives, etc. In addition to the representatives, there are elected officer positions for which any residence hall student is eligible.

Social Fraternities and Sororities

There are 10 social fraternal organizations on the campus. Their programs, aims, and objectives are consistent with the national organizations, the National Interfraternity or Panhellenic Conferences, and meet the criteria established by the university for recognition of any student group. Although primarily social organizations, most groups perform several service projects during the year. A student must demonstrate his academic ability before he may join these organizations, with membership by invitation. A “rush” period is held twice each year to provide interested students with an opportunity to learn more about the Greek system at the university. All social fraternities and sororities at the university are affiliated with a national organization.



Social fraternities represented on campus include:

Delta Sigma Phi	Sigma Pi
Phi Sigma Epsilon	Sigma Tau Gamma
Sigma Phi Epsilon	Tau Kappa Epsilon

The following sororities are represented:

Alpha Phi	Delta Zeta
Alpha Sigma Alpha	Theta Phi Alpha

The activities of these groups are coordinated through the **Interfraternity Presidents' Council** and the **Panhellenic Council**.

Honorary Organizations

Several students groups have been organized for the purpose of recognizing outstanding scholars at the university. Such organizations are commonly called honoraries. Most have special membership requirements pertaining to courses completed and the scholastic average maintained. Membership is by invitation and often implies association with a national as well as a local organization. Throughout the year, these honoraries seek to encourage scholarship and to provide interesting and intellectual programs for the students.

The eight honoraries currently recognized on our campus are:

Alpha Mu Gamma (foreign language)	Gamma Theta Upsilon (geography)
Association of Women Students Honor Society (general)	Phi Alpha Theta (history)
Delta Omicron (women in music)	Phi Mu Alpha Sinfonia (men in music)
	Pi Kappa Delta (forensics)
	Sigma Zeta (science)

Departmental and Professional Organizations

Other recognized student organizations on campus were formed to work closely with a specific academic department or with a specific pre-professional group of students. The membership requirements in these organizations vary, but usually are based on a student's major or minor area of study. Most departmental and professional organizations share the common objectives of: 1) providing students with similar interests an opportunity to exchange information and ideas, 2) promoting general interest and inquiry in the respective major or minor areas, and 3) encouraging faculty and student interaction within small groups. There are 24 organizations on campus classified as departmental and/or professional groups. They include:

Alpha Delta Alpha (food and nutrition)	Foreign Language Club
Biology Club	Home Economics Club

Nu Alpha Tau (resource conservation)
 Pershing Rifles
 Phi Beta Lambda (business)
 Physical Education Major-Minor Club
 Players
 Political Science Association
 Pre-Law Society
 Senior Primary Council (elementary
 education)
 Sigma Mu Tau (medical technology)
 Society of Physics Students (S.P.S.)
 Sociology-Anthropology Association
 Spanish Club

Speech and Hearing Association
 Student Affiliate of the American
 Chemical Society
 Student Chapter of the American Guild
 of Organists
 Student Chapter of the Music Educators
 National Conference
 Student Education Association
 University Writers
 UW-SP Chapter of the Soil Conserva-
 tion Society of America
 UW-SP Student Chapter of the Society
 of American Foresters
 UW-SP Student Chapter of the Wildlife
 Society, Inc.

Special Interest Groups

A large group of student organizations at the university can best be designated as special interest groups open to any students interested in the program of the club. (Those marked with an asterisk have special membership requirements.) Each organization plans a variety of activities in keeping with the purposes for which it was formed. Those groups identified as special interest include:

Alpha Phi Omega (men's service
 fraternity)*
 American Indians Resisting Ostracism
 Asian Study Club
 Black Student Coalition
 Caissa Chess Club
 Campus Bowling League
 Cloister*
 Enquirers
 Environmental Council
 Five-Fifty (veteran's group)
 Gamma Chi (women's service sorority)*
 Hockey Club
 International Club
 Men of the Whiting*
 Pocket Billiard League
 Poseidon's Aqua Prowlers
 Pointer Rifle and Pistol Club

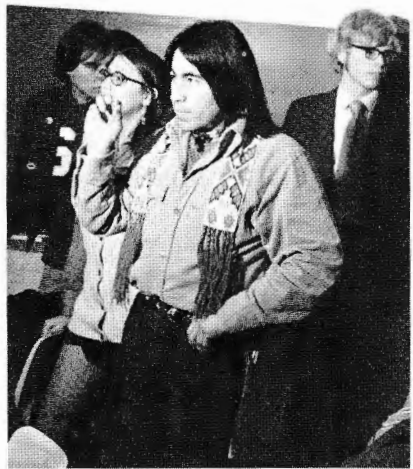
Rangers
 "S" Club*
 Save Lake Superior Association
 Siasefi (men's social group)*
 Soccer Club
 Students International Meditation
 Society
 The Pointer (student newspaper)
 University Film Society
 UW-SP Ski Club
 UW-SP International Folk Dance Club
 Wisconsin Public Interest Research
 Group
 Wisconsin Student Movement
 Women's Recreation Association
 WWSP, Radio Station
 Young Democrats
 Young Republicans
 Zero Population Growth, Inc.

American Indians Resisting Ostracism (AIRO) became a formally recognized organization in the fall of 1971. It was formed for the purpose of encouraging a greater awareness and understanding of all native American people, and to help eliminate the numerous stereotypes and generalizations which exist in many minds concerning the first Americans. Membership is open to all without regard to race, religion or national origin.

The **Black Student Coalition** (BSC) at the University of Wisconsin-Stevens Point was formed during the 1970-71 school year for the purpose of being a representative voice for Black students in campus affairs.

BSC centers its activities around five basic aims: (1) to build solidarity in our search for identity; (2) to foster better race relations on campus; (3) to provide a vehicle through which our needs may be expressed to the college community and an effective channel of communication between the races; (4) to effectively combat alienation; and (5) to include Black history and culture in all facets of the core curriculum.

Administrative personnel have been very cooperative in helping BSC realize its aims, and have expressed concern in the lack of Black enrollment at Stevens Point as compared to other schools throughout the state. The Stevens Point campus has great potential for Black students so BSC, in conjunction with school administrators, has established a recruiting program to remedy this situation. The basic aims of this recruiting program are not only to increase Black enrollment on campus, but also to provide cultural enlightenment for the Stevens Point community and the central Wisconsin area.



Religious Groups

A number of student organizations have as their purpose the exploration of the relevance of religious beliefs to man in the twentieth century. Membership in each of these groups is open to any interested student. The religious groups organized on our campus include:

- Chi Alpha
- Christian Science
- Inter-Varsity Christian Fellowship

- Lutheran Collegians
- Lutheran Student Community
- Newman Community

University Christian Movement is an ecumenical and free association of the major christian communities of faith present on the campus, with membership open to all. It is intended to be an affiliation of all religious organizations on campus who share the conviction to do nothing separately or alone that can be done together. Present UCM affiliates are: Catholic campus ministry (the Newman community), the Lutheran campus ministry (the Lutheran community, ALC LCA and Missouri Synod), and United Ministries in Higher Education (United Church of Christ, United Presbyterian Church, United Methodist Church, Assembly of God, Baptist, Episcopalian and Moravian). Programs and services exist to aid any truthful search or enterprise.

Leadership Training

All students are offered an opportunity to develop leadership talents through the cooperative efforts of the Communication Department and the Student Activities and Housing Offices. Members of all three of these areas have created an annual Fall Leadership Training program for campus leaders. In addition, throughout the year, any student organization may request leadership training or communication workshops for their groups by contacting the Student Activities Office. The Department of Communication offers a course in Organizational Leadership which deals with problems and procedures of meeting management, leadership, and group problem solving.

Volunteer Services

The Student Activities Office encourages volunteer participation in on-going and short term community needs. Student groups, residence halls or interested individuals may contact the Activities Office for project ideas or for information on how to tie in with community efforts such as the United Fund drive, Red Cross Blood drive, Thanksgiving, Christmas and holiday projects as well as year round needs with such projects as Big Brother, Boy Scouts, Parents Without Partners, and the hospital. Groups involved in projects and activities of a volunteer nature are encouraged to notify the Activities Office of their programs so that their ideas and experiences can be shared with as many people on the campus as possible.

Student Community Projects

The Student Activities Office now provides a placement file of junior and senior level job experiences for the students and the academic departments. Students wishing a job experience in their field of interest may inquire at the Activities Office regarding potential one semester placements in agency, school or business positions. Examples would include: research and internships in such agencies as the Wisconsin State Employment Service, the Community Action Program or departments of the local hospital. Wherever possible, such assignments can coincide with 399/499 (independent study) or 397/497 (independent research) courses of the

academic departments. Instructors and department chairmen are encouraged to use the resources of the Student Activities Office in making contacts with agencies and in creating semester placement opportunities for students. Placements in business will generally involve a salary for the student, whereas placements in a non-profit organization or agency will be for the experience alone. All students completing a successful internship or placement will have the option of receiving a placement credential for their efforts. These opportunities in the community will strengthen university community relationship and involvement as well as give the student an opportunity to explore career interests. Departments or instructors doing such field placements on their own are encouraged to share their ideas through the Student Activities Office.

Student Foundation

The Student Foundation, Inc. is a non-profit corporation licensed with the state of Wisconsin to provide services to the student body at Stevens Point. The Student Foundation is entirely managed and maintained by the students with a campus wide election of the officers. Only students enrolled at UW-Stevens Point can obtain membership with payment of annual (September 1-August 31) dues of \$2.00.

Initially, the Foundation was set up to provide free legal aid services to Stevens Point university students. Members can enjoy free legal advice and services for the year. The Foundation has formed a staff around an attorney who is contracted for the year.

The Foundation has also created a discount program in the community to provide discounts for their members with participating local merchants.

A weekly newspaper known as the **Campus Rag** is also published by the Student Foundation. The Campus Rag is a non-political newspaper open for use by **all** students at Stevens Point. Students as well as faculty are invited to write articles for the publication. The main service of the Campus Rag is the publication of a complete and detailed weekly calendar giving dates, times, and places of all meetings and activities on the campus and in the community.

Athletics

Intercollegiate sports in which the university participates as a member of the Wisconsin State University Conference are football, cross-country, basketball, gymnastics, swimming, wrestling, baseball, golf, tennis, and track. In addition to its conference schedule the university plays an attractive non-conference schedule against schools of our size in the midwest. The latest development is a club sport program which includes the following: soccer, bowling, fencing and hockey.

The official "S" sweater is awarded to those who fulfill the requirements

established by the Athletics Committee. Men who have won a letter in a varsity sport are eligible to become members of the "**S**" **Club**, an honorary organization from the standpoint of membership, a service organization from the standpoint of function. The "S" Club provides some of the awards granted by the university; stimulates interest in varsity athletics; and participates in a variety of activities calculated to benefit the whole school.

An intramural program has been planned to provide competitive and non-competitive activities mainly for those students not participating in inter-scholastic athletics. Intramural athletic teams may be formed by residence halls, fraternities, religious organizations, independent groups, etc. A wide range of activities are provided to meet the needs and interests of all students.

Intramural activities for men include archery, cross-country, horseshoes, punt-pass-kick, swimming, touch football, paddleball, foul throw, basketball, badminton, bowling, handball, table tennis, volleyball, golf, relays, tennis, and track and field.

Some special interest groups are also organized through the intramural program. They include the American Red Cross Club, the Judo Club, the Weight Lifting Club, the Jog-a-long Program, and the Fencing Club.

Women's sports are planned by the **Women's Recreation Association**, an organization in which all university women are members. WRA supervises and sponsors a variety of recreational activities, including archery, badminton, basketball, golf, softball, swimming, tennis, field hockey, track and field, and volleyball.

During the year the WRA attends a number of sportsdays held at other colleges in the state, conducts sportsdays in selected activities and plans special programs such as the swim carnival.

The intramural office, in cooperation with the WRA, also plans a number of co-rec programs during the year.

Museum of Natural History

The Museum of Natural History, located in the Learning Resources Building, functions in research, teaching, and community service. The curators have trained and done research in their special disciplines, including entomology, ichthyology, herpetology, ornithology, mammalogy, paleontology, anthropology, and botany. Numerous exhibits on natural history are housed in the Museum. The August J. Schoenebeck Egg Collection, one of the largest in North America, including eggs of the extinct or nearly extinct passenger pigeon, ivory-billed woodpecker, and whooping crane, is on display. Many school children, local citizens, and university students visit the museum each month.

The popular **Museum Lectures Series** presents talks on expeditions, animals, plants, and various aspects of museum work. Open to the public without charge, these talks are usually given monthly on a Monday evening.

Arts and Lectures Series

The **Arts and Lectures Series** sponsors cultural events for the university and surrounding area. This series brings many outstanding attractions to the campus each year.

For the 1972-73 season the Arts and Lectures Series will present a total of more than 25 events. These events will include major symphony orchestras and foreign group attractions, theatre, dance, and jazz. There will also be a number of lectures by well-known personalities (booked in conjunction with the University Activities Board) and a Travel Adventure Film Series.

University of Wisconsin-Stevens Point students pay a 50 cent charge for all concert events, but they are admitted free of charge to the film events upon presentation of the Student Identification card.

Tickets may be picked up in advance at the Arts and Lectures box office or at the door. A brochure advertising the entire series is available on request by either writing or calling the office located in room B-119 of the College of Fine Arts Building, phone number 346-4666.

Art Exhibits

A year-round series of art exhibitions and shows by senior Art majors is open to all students. Housed in the LaFollette Lounge of the University Center and the Edna Carlsten Gallery in the Fine Arts Building, these exhibitions feature artists of national and regional reputation, as well as student shows. The Director of Art Exhibits, under the supervision of the art department, is in charge of the series. The exhibitions are open to students and public without charge.

Musical Activities

Opportunities to participate and opportunities to listen are both part of the musical program open to all students. Students may participate in concert and marching bands, orchestra, choir, opera workshop, oratorio, brass choir, percussion ensemble, clarinet choir, jazz lab band, woodwind quintet and other ensembles. Membership includes not only students specializing in music, but many who desire to continue previous musical experiences. Several concerts and tours are scheduled. Among recent operatic productions have been "The Magic Flute," "Dido and Aeneas," "Die Fledermaus," and two one-act contemporary operas, "The Medium," and the "Devil and Daniel Webster." Musicals have included "Kiss Me Kate," and "Man of La Mancha." Numerous solo recitals by faculty members and students are open to the public throughout the year.

Forensics, Debate, and Public Speaking

The Department of Communication sponsors several activities for students interested in competitive, public, pre-professional, or casual speaking on the campus, in the community, or at other schools. These activities are open to all students of the university and are designed to augment classroom training and verbal skills in a co-curricular environment. The activities are divided into two distinct areas, as indicated below.

Intercollegiate Events

Debate—The university debate team annually attends 15-20 tournaments throughout the nation in competition with students from other colleges and universities. Teams from some 70 different schools are debated during the season which runs from September until mid-April. The team welcomes beginners with no experience along with students from high school debate programs to this activity designed to develop skills in argumentation, analysis, verbal refutation, and research. Academic credit is available.

Forensics—In addition to intercollegiate debate, this university also competes with other colleges and universities in a number of specific speaking contests. These contests include oratory, extemporaneous speaking, impromptu, discussion, after-dinner speaking and rhetorical criticism. Students from the university attend from three to five individual event speaking contests each year. Academic credit is available.

Campus Discourse

Members of the communication department are frequently involved in guiding and advising students in the pursuit of diverse on-campus speaking functions. Numerous activities relative to politics, intramural speaking, leadership development, etc., are pursued in this manner and all students are encouraged to seek support and advice on matters of public discourse in the campus community. A wide variety of speaking activities is closely coordinated with all aspects of the student affairs division to integrate training in communications into all appropriate co-curricular student experiences within the university environment. Some of these activities include:

UW-SP Forum—The Forum is a monthly parliamentary style debate on a wide variety of subjects in which students at all levels of speaking still are urged to express themselves. Several topics of debate have been: Resolved, that abortion laws be abolished; Resolved, that women are already more liberated than the inherent inferiority of their sex warrants, and: Resolved, that university faculties are comprised largely of effete snobs and intellectual eunuchs. The forum meets once a month on Wednesdays.

Intermedia—Four times each year students select a topic area, choose material, and develop a multi-media presentation. These presentations

consist of slides, movies, tapes, music, light, discourse, etc., and utilize the senses of sight, hearing, touch, and smell. The purpose is to create an empathic response from a participating audience on a single concept. This activity attracts students with creative, technical and managerial talents from many different academic areas.

International Tape Exchange—Students in this activity establish a recurring taped discussion exchange with other students attending schools in several foreign countries. Subjects are open-ended depending on the students involved, but generally begin with an exchange of ideas on culture and the problems of being a student. Topics then range at will. Initial contacts have been established with Sweden, France, Philippines, and India.

Student Speaker's Bureau—Students from throughout the campus community who are interested in speaking before a wide range of public audiences are encouraged to register with the Speaker's Bureau. Local and regional organizations request student speakers for a variety of speaking situations. The Speaker's Bureau operates under the direction of a Student Board of Governors. Positions on the Board and as program participants are available.

High School Communication Activities—Each year the university presents several workshops for high school students and coaches. Workshops are presented on Debate, Spring Speech, and Radio-TV-Film. Students on this campus are encouraged to participate in the planning, organization, and presentation of these workshops. In addition, the university acts as host for speaking and debate and tournaments. Students may also become involved in these activities.

Leadership Training—The Department of Communication offers all students an opportunity to develop leadership talents through the Communication 6 course (Organizational Leadership) and other campus leadership training activities in which department personnel participate. Interested students are encouraged to discuss leadership problems with our staff. Organizations may request leadership training or communication workshops for their groups as well.

WWSP Radio-Television-Film

Participation in various phases of radio and television is open to all students in the university. Under the sponsorship of the Department of Communication, study is available on either a credit or non-credit basis.

The Campus Radio Station, WWSP-FM, broadcasts daily to the Stevens Point area. This educational station provides opportunities for experience in administration, programming and production.

A completely equipped television studio located in the Learning Resources Center provides opportunity for students and faculty to prepare productions for presentation over local television facilities. Remote television broadcasts are done periodically with operational experience available in all aspects. Facilities for campus closed circuit television and for creative film production are now being planned.

Projects and equipment are available on a broad basis jointly between the Department of Communication and Instructional Media Services. For course work in these areas see the Department of Communication under "Courses of Instruction." Special workshops open to all students are available in all areas of Radio-Television-Film.

Student Newspaper

The **Pointer**, the university newspaper is produced weekly by a student staff recruited by the student editor and advised by a faculty member. An excellent advent to journalism, the Pointer is the student voice on campus and gives the interested student an opportunity to learn and work in writing, editing, proofreading, layout, advertising and photography.

Theatre and Interpretation

The university offers a rich program of dramatic and oral interpretation activities under the supervision of the Department of Drama and open to all students, whether or not they major or minor in drama.

The University Theatre Winter Season includes major stage productions for the public along with the regular schedule of studio theatre productions. A fall musical and spring opera are presented in conjunction with the Music Department, and a Dance Concert is also included as part of the major production activity each year. Studio theatre productions include workshops, oral interpretation programs, experimental productions and Young People's Theatre. Opportunity for production experience in the studio series is open both to students enrolled in classes studying specific production techniques and, upon application, to qualified students and faculty with strong interest in theatre. A program of touring productions has been a feature of the University Theatre Winter Season in the past. Major productions have toured the region and the state, participated in the American College Theatre Festival and toured Greenland, Iceland, and the Northeast Command for the USO. 1972-73 plans call for a USO sponsored tour of seven weeks in Europe.

The University Theatre Summer Season also offers a program of four

major stage productions in a Summer Theatre Festival. This unique enterprise features a Repertory Company of actors plus the talents of interested students in performance of the world's finest dramatic fare. Membership in the Repertory Company is open to qualified students.

These production activities offer experience in directing, acting, stage design and the multiple aspects of technical theatre under the leadership of a professional staff, providing creative sponsorship for many types of talents and interests. Recent productions have ranged in scope and depth from the musical comedy "Man of La Mancha" and Mozart's "The Magic Flute" to the Greek comedy "Lysistrata," to Shakespeare's "King John," to "The Birthday Party" by Harold Pinter, to "Winnie the Pooh" by A. A. Milne.

Since students enrolled in drama courses are expected to participate in department productions, optional credit for such participation is available to all students. Those intending to participate in production activity may enroll in Drama 126—Laboratory Work in Dramatics, for a total of two credits, in Drama 226 for a total of two credits, in Drama 326 for a total of two credits and in Drama 426 for a total of two credits. In addition, the 1-6 credit Summer Theatre course (Drama 129/429) offers variable credit for participation in the many phases of the University Theatre's Summer Season.



Student Expenses

Academic Fees (per semester)

	1971-72	1972-73
Undergraduate:		
Residents, full time (12 credits or more)	\$241.00	\$259.00
part time (11 credits or less)		
per credit	21.50	22.25
Non-residents, full time (12 credits or more)	\$744.00	\$831.50
part time (11 credits or less)		
per credit	63.50	70.00
Graduate:		
Residents, full time (9 credits or more)	\$270.50	\$285.50
part time (8 credits or less)		
per credit	31.20	31.95
Non-residents, full time (9 credits or more)	\$870.50	\$1,033.00
part time (8 credits or less)		
per credit	97.20	115.20
Summer Session:		
	1972	1973*
Undergraduate resident, per credit	\$ 20.00	
non-resident, per credit	29.00	
Graduate resident, per credit	\$ 30.00	
non-resident, per credit	39.00	

*Fees for the 1973 Summer Session have not been determined as of the date of publication of this catalog. Information on them will be made available as soon as the fees are established.

Fees are subject to change.

Any student who has registered is liable for the payment of a registration fee of \$50.00 (\$4.25 per credit for less than a 12 credit load), which applies to the student's account. This charge will be withdrawn if the student notifies the registrar, before the first day of classes, that he is cancelling his registration.

Students whose fees are paid by agencies outside the university (Vocational Rehabilitation, National Science Foundation, Veterans Administration — in certain cases —, ROTC, PRIDE, Indian scholarships, etc.) must have the notification of their eligibility sent to the University Cashier by July 1 for the first semester, and by December 1 for the second semester, in order that proper arrangements can be made for the students to attend classes without payment of the fees by the student.

Payment of Fees

Fees may be paid in full by the due date indicated on the first billing form.

A partial-payment plan of three installments is also available:

1st billing—40% of the amount due. Payment of this installment must be made by the due date shown on the bill, or class and/or residence hall registrations may be cancelled at the option of the university.

2nd billing—at least 50% of the balance, plus the service charge.

3rd billing—100% of the balance, plus the service charge.

The service charge is calculated at the rate of one percent per month (12% per year) on the unpaid balance at the time of billing.

Students who are more than **30 days delinquent** in the payment of any accounts may be suspended from the university. Students who are delinquent in their financial obligations will not be allowed to receive a transcript or a diploma, nor will they be allowed to register for a subsequent term.

Fee Adjustments

Adjustments of academic fees for full-time students who withdraw from the university are calculated on the following basis:

During the first week of classes — 100% less \$50.00 registration fee

During the second week of classes — 80%

During the third and fourth week of classes — 60%

During the fifth week and thereafter — None

A student whose withdrawal from a class results in a study load of less than 12 semester hours will receive a full adjustment of the difference in fees only during the first two weeks of classes. No adjustment will be made during the third week of classes and thereafter.

A **refund of the first semester room reservation deposit** will be granted if requested prior to July 1. A refund of the second semester room reservation deposit will be granted if requested prior to December 1. A refund of the deposit will not be granted after these dates except in unusual circumstances.

Refunds of fees for room and board are made on a pro-rata basis. In all cases the refund is calculated from the Monday following the date of the termination of the residence hall assignment.

To withdraw from the university, a student must report to the Office of Student Affairs to initiate the withdrawal procedure.

To terminate a residence hall assignment but remain in school, a student must report to the Housing Office. A release from the residence hall agreement is granted for the following reasons: marriage, student teaching, or participation in curricular programs which require off-campus living.

Housing and Dining Services

Facilities are available in the residence halls and dining services at the following rates:

Room—\$225.00 per semester per student; \$450.00 for the academic year. This includes bed linens and their laundering. Students provide their own pillows, blankets, and towels.

Board—\$235.00 per semester (\$470.00 for the academic year), plus the 4% sales tax. This provides twenty-one meals per week. All students who live in the residence halls must eat in the university's dining centers. Students who live off-campus may purchase their board at the rate available to residents of the halls.

These rates provide room and dining service only during periods in which the university is in session. They do not provide for vacation or other closed periods. The rates indicated above are subject to change without notice.

Information and housing application forms are mailed to all students admitted to the university. The housing application should be returned as early as possible, with a \$75.00 room reservation deposit. The applications are processed in the order in which they are received.

Refund of the first semester room reservation deposit will be granted if requested prior to July 1; and of the second semester deposit if requested prior to December 1.

Miscellaneous Fees

A late payment fee of \$5.00 will be assessed if payment is received after the due date shown on the billing form.

A penalty of \$10.00 in addition to all other fees is charged for late registration. This fee is non-refundable.

In a number of courses, special fees are assessed to take care of laboratory breakage, field trips, etc.

A fee of \$5.00 will be assessed for a check which is returned by a bank as a non-negotiable item.

A fee of \$2.00 will be assessed if it becomes necessary to replace a lost identification card. This fee is non-refundable.

A Graduation Fee is payable in the semester or summer session in which the degree is granted: Associate Degree — \$2.00; Bachelor's Degree — \$8.50; Master's Degree — \$12.50.

A service charge of one percent per month (12% per year) on the unpaid balance will be charged to students who participate in the partial payment plan.

Financial Aids

Requests for financial aid from entering freshmen and transfer students will be considered only after a student has been officially admitted to the university.

An entering freshman should make application on the State of Wisconsin freshman application form available from the high school he attends. This form along with the College Scholarship Service Parents' Confidential Statement must be mailed as directed.

A transfer student should obtain the necessary application blank, and the Parents' Confidential Statement form from the Office of Financial Aids.

A continuing student in the university may secure his application materials from the Office of Financial Aids. Returning undergraduate students who have previously received aid will automatically be sent a new application sometime during the latter part of the fall semester. Any student who does not receive an application may pick one up at the Financial Aids Office.

In all cases, the single application form and the Parents' Confidential Statement (the Student Budget Form and Statement of Non Support where deemed advisable) provide the needed data for a decision as to the student's eligibility and the type of assistance to be proposed. A financial aid proposal will be mailed in May to each recipient outlining the amount and kind of aid he may receive. A signed copy of this proposal must be returned by the deadline date to indicate acceptance or rejection of the proposal. Failure to return the proposal by the deadline date is tantamount to a rejection.

Financial aid is not automatically renewed for succeeding years. The student must file a new application for each year or summer session. Generally, freshman and upperclass applications must be received by March 1 of the year in which they expect to enroll for their first semester.

Loans, Grants and Scholarships

The following specific programs may be incorporated into the financial aid proposal, but please keep in mind that all aid proposed by the Financial Aids Office is based on student need only:

State Honor Scholarship: Available only to freshmen, awarded on the basis of high school graduation rank selected by the high school.

State Legislative Grant: Available to freshmen and upperclassmen in limited numbers. The value of each grant is variable depending upon need and academic achievement. The minimum grant shall be \$100 for an academic year. Grants are not automatically renewable.

Educational Opportunity Grant: Restricted by Federal guidelines to exceptionally needy students. It may be continued for four full years, and the award may range from \$200 to \$1,000 per year, not to exceed one-half of the student's entire need.

National Defense Student Loans: Up to \$1,000 annually for undergraduate students, up to \$2,500 for graduate students (both dependent upon need). Loan is interest free until nine months after leaving school; interest then is charged at 3% during the repayment period which may not exceed 10 years and 9 months. A cancellation feature applies to those entering teaching, and for special duty such as teaching the handicapped or teaching in economically deprived areas, and for military service. Students may be eligible for additional loans on a year to year basis.

Wisconsin State Loan: Up to \$1,000 for undergraduate students, up to \$1,500 for graduate students. Available to Wisconsin residents only, based upon need. Interest at the rate of 7% is charged during the repayment period. Repayment begins nine months after school attendance ceases.

Wisconsin Tuition Waivers: A limited number of students from out of Wisconsin may qualify for a partial waiver of the non-resident fee. Such waivers are considered for non-residents during the regular application review. Selected foreign students are awarded a waiver of all fees except those assessed for room and board and on-campus charges.

Guaranteed Loan Program: Another source of financial aid for students not eligible on a need basis is through local banks, savings and loan associations, and credit unions. The federal government provides a guarantee of repayment and an interest subsidy if the borrower's parents show an adjusted gross income below the \$15,000 level (gross - 10% - \$600 for each exemption = adjusted gross income).

Emergency Loans: An emergency loan fund is maintained for short term,

urgent credit needs. Any student desiring such a loan must see the professional staff of the Financial Aids Office.

College Work Study Program Jobs: Students who qualify for federal aid and desire employment will be offered a job under this program. No student may be employed more than 15 hours per week while classes are in session and no more than 40 hours per week during vacation periods.

Other Campus Employment: Additional opportunities for employment on campus are available through the regular student assistance program and the university food service facilities. Interested students should contact individual department chairmen and the university food service directly.

Veterans Benefits

Students attending school under the G.I. Bill will receive payment from the Veterans Administration according to the schedule below:

Semester Hours Carried Undergraduate	Graduate	Dependents			Additional Dependents
		0	1	2	
12 +	9 +	\$175	\$205	\$230	Add \$13 each
9-11	7-8	128	152	177	Add 10 each
6- 8	5-6	81	100	114	Add 7 each
1- 5	1-4	(Approximate payment figured by taking cost of fees and dividing by months of instruction.)			

Special Services

The staff of the Student Financial Aids Office is available for students and parents who desire consultation on financial aid programs. Appointments may be made with the office located in the Student Services Center.

The university maintains an account to accommodate agencies and organizations desiring to pay stipends to a student through the university. Any such agency is welcome to avail itself of this service.

The University Foundation is authorized to receive tax deductible contributions for private scholarship and loan programs.

Cooperative Education Programs

Although the Cooperative Education program is not primarily concerned with financial assistance for the student, it does provide periods of full-time paid employment in positions where the work performed is related to the major studies and career goals of the student. (See the detailed description of this program in the "Academic Work" section of this catalog.)

Admission

Entrance Requirements for Freshmen

To qualify for admission to the University of Wisconsin-Stevens Point, a person must meet the following requirements which have been prescribed by the Board of Regents:

1. He must have graduated from a legally established public or private high school with 16 units of work. (A unit represents a norm of five class periods per week in one field of study for a school year of 36 weeks.)
2. He must be recommended for admission by the high school principal or counselor.
3. He must present a minimum of nine units of credit from the following fields: English and speech, foreign language, natural science, history and social science, and mathematics. (A minimum of three years of English is recommended.)
4. He must have completed the ACT (American College Test) or SAT (Scholastic Aptitude Test, CEEB). ACT is preferred; SAT will be accepted in lieu of ACT if applicant has previously taken SAT.
5. A student ranking at or above the 25th percentile (upper three-fourths) of his high school graduating class will be admitted in good standing if requirements 1, 2, 3 and 4 are satisfied.
6. A student ranking below the 25th percentile (lower one-fourth) of his high school graduating class will be admitted on probation if requirements 1, 2, 3 and 4 are satisfied and if his ACT composite standard score is 17 or above.
7. A student who has satisfied requirements 1, 2, 3 and 4, but does not qualify on the basis of requirements 5 or 6, will be required to enroll in a summer session for the purpose of demonstrating his scholastic ability on the university level. If he carries 6 credits of work or more and earns an over-all grade point average of 1.5 (C=2.0 on a 4 point basis) or better, he will be admitted on probation.

Application for Admission

A high school graduate who wants to enroll in the university should write to the Director of Admissions for an application blank, which should be given to the high school principal or counselor when properly filled out.

The applicant should request the principal or counselor to send the blank to the Admissions Office after adding a record of his credits. A student's eligibility to enroll will then be determined.

A student may make application for admission after October 1st of his senior year in high school. He should follow the procedure outlined in the preceding paragraph.

Entrance with Advanced Standing

A student who has taken work at another college may enroll at Stevens Point with advanced standing. Such a student should follow the same procedure as entering freshmen (see above). He should also request that a transcript of his credits be sent to the Director of Admissions from each college he has previously attended. In addition, a personal reference form must be requested from Stevens Point, completed by the Dean of the institution last attended, and returned to the Director of Admissions at Stevens Point. Credits with a grade of C or better, earned at an accredited institution of college level, may be counted toward graduation provided they fit the general pattern of the curriculum selected by the student.

For transfer students who are not on probation when admitted, credits in any course in which a D grade was earned will be used for meeting prerequisite, course, or credit requirements for a degree, but not necessarily for a major. Such courses will be subject to university regulations regarding the same or similar courses taken on this campus.

Probation and suspension regulations of this university will be applied in determining the academic status of transfer students.

No more than 72 credits will be accepted from any Branch Campus in the former Wisconsin State Universities System or from any other two-year college.

Credits transferred from County Teachers Colleges are applicable only in the Elementary Education curriculum.

If a prospective transfer student has been dropped for any reason by the institution he last attended, he is generally ineligible for admission to this university until he has been out of school for at least one semester following his first suspension or two years (four semesters) following his second suspension. Then he may make application for admission to the Director of Admissions. Each case is considered on its merits. If a student's academic record at another college is such that he would have been dismissed had the record been earned at Stevens Point, his admission is also subject to the rules indicated above, even though he was not dropped from the previous college.

Advanced Standing Test Programs

The university participates in two programs through which a student may receive credit and placement by examination. The programs are the Advanced Placement Program and the College Level Examination Program (CLEP). Additional information in respect to specific examinations which are accepted may be obtained by writing to the Director of Admissions.

Readmission of Former Students

Former students wishing to re-enter the university must request permission to do so from the Director of Admissions. If the student has attended another college or university since he last attended Stevens Point, a transcript from each must be filed before eligibility to return will be determined. In addition, a personal reference form must be requested from Stevens Point, completed by the Dean of the institution last attended, and returned to the Director of Admissions at Stevens Point.

Readmission of a Student Who Has Been Suspended

See page 59.

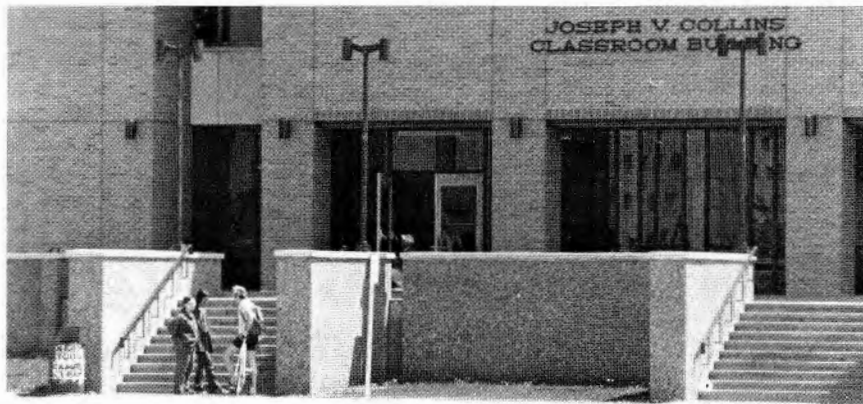
Entrance As an Adult Special Student

Students who are service veterans or are 21 years of age or older may be admitted by giving satisfactory evidence of scholastic ability on the university level.

Persons intending to enroll in this category should follow applicable procedures for enrolling outlined above, and must also write the Director of Admissions outlining their educational background.

Late Registration

No student may register in the university, or for an additional course after the end of the sixth day of classes in any semester.





Academic Work

Academic Regulations

Primary responsibility for learning and following the regulations of the university and for completing all graduation requirements at the proper time rests with the student. While faculty advisers will assist students in planning their programs, they are not expected to relieve students of their responsibility.

Academic Honors

The faculty has established a system of academic honors to recognize the achievement of students with high grade point ratios. Grade point ratios are computed each semester with highest honors designated for students with a grade point ratio of 3.75 or above, high honors for those earning 3.50 to 3.74 and honors for those achieving 3.20 to 3.49. Letters announcing these honors are sent to parents each semester. A student must complete at least 13 semester hours of work in order to be eligible for recognition.

A terminal recognition honors list is computed on the same grade point basis as above. Computations for the commencement program are based on all grades which count toward graduation earned prior to the final semester. Computation of terminal honors for the transcript includes the final semester. Transfer credits are included in the terminal honors computation except when earned in a nonaccredited situation.

Academic Advising

Each student is assigned to an adviser who is available to help him arrange his academic program along lines suggested by the student. It is suggested that a student consult his adviser each semester to review the progress of his academic work and to discuss his course of study for the following semester.

The services of the Counseling Center are also available to all students to discuss academic difficulties or any other phase of the student's life at the university.

Majors and Minors

Both majors and minors are offered in the following fields: American civilization, art, art education, biology, chemistry, communication, drama, economics, English, forestry, French, general science, geography, German, history, Latin American studies, mathematics, music, philosophy, women's

physical education, physics, political science, psychology, resource management (conservation), Russian and East Central European studies, social science, sociology and anthropology, and Spanish.

Majors (but not minors) are also offered in business administration, business education, communicative disorders, communication and drama education, dietetics, early childhood education, education of the deaf, elementary education, experimental food and nutrition, food and nutrition, food service management, home economics education, home economics in business, medical technology, music (applied areas), music education (instrumental and vocal), music literature, pulp and paper technology, social science (broad-field), soil science, water resources, and wildlife.

Minors only are offered in Asian studies, comparative literature, computer science, dance, home economics, learning resources, library science, outdoor education, men's physical education, public administration, and Russian.

There is also a curriculum in military science as part of a voluntary Army ROTC program.

The Semester Hour; The Credit

The unit used in computing the student's study load is the semester hour, which represents one hour of class work, or its equivalent in other forms of instruction, per week for one semester. Two, or sometimes three, hours of laboratory work are usually considered the equivalent of one hour of class work.

A semester hour's work completed with a grade of D or better becomes a credit.

Study Load

In order to graduate, a student must earn 120 credits in addition to credits in required physical education.

A normal study load is 15 semester hours, plus one semester hour of physical education when required. Exceptions **up to** 18 semester hours may be granted as provided for in each college. The student's Dean may permit 18 semester hours, plus one semester hour of required physical education; but permission to do so is granted only in highly unusual cases and only to students whose academic records warrant the exceptions.

Students registering more than one week late in any semester will find it difficult to carry the normal load for that semester, and may be required to take a reduced load.

Veterans under Public Law 550 are expected by the Veterans Administration to carry 12 semester hours to qualify for full benefits. (See details under FINANCIAL AIDS.) Students claiming **Social Security** benefits are required to carry at least 12 semester hours.

Correspondence Courses

Correspondence credits from an accredited university may be applied toward an undergraduate degree. These are considered non-residence credits and are subject to the limitations on extension credit indicated in the section on extension courses.

A student's load must take into account any extension or correspondence credits which he expects to be taking. Such courses should be approved in advance by his adviser.

This university does not offer any correspondence courses.

Department Acceptance of Candidates for Majors and Minors ←

In curricula in which a major field of study is required, a student must declare himself a candidate for a major in a department by no later than the time he has earned 56 credits (exclusive of required physical education) toward graduation. A declaration of intent to major in a given department is accomplished at registration by filling in the appropriate blank on the registration card with the name of the major.

Students at the junior level should, if they intend to declare a **minor**, indicate this intent by filling in the blank for minor designation on the registration card.

A student may be discontinued as a major candidate only if he is notified in writing that the decision has been made. A copy of such notification is to be sent to the Records office. The written notice must be given prior to the completion of two-thirds of the credits required for the major or prior to the beginning of the student's senior year, whichever occurs first; except that a student in good standing as a major candidate during his junior year, who does not continue to meet the standards of the department during his senior year, may be discontinued as a major.

A department may wish to accept or retain a student as a major candidate during his senior year on a conditional basis. The department must notify any such student in writing, at the time of acceptance prior to the senior year, of specific conditions that must be met. If a student, during his senior year, fails to satisfy the written conditions, the department has the right to discontinue his candidacy and shall give written notice of such decision.

A student must have a cumulative grade point ratio of 2.00 in his major(s),

including prescribed collateral courses, in order to be eligible for departmental approval to graduate with the major(s).

A student who believes a departmental action on his major candidacy is unreasonable or unfair has the right to discuss the decision with the dean of the college concerned.

Grading System

Semester grades are recorded by letter only and each letter grade carries a specific number of points per semester hour. The scale of grades and points follows:

Grade	Points per Semester Hour
A (excellent)	4
B (good)	3
C (satisfactory)	2
D (poor)	1
F (failure)	0

These additional designations are used:

S indicates that the work in a continuation course is satisfactory, and that the grade for (both portions of) the course will be assigned when the entire course is completed.

W (Withdrawn) indicates that a course was officially dropped after the end of the second week of classes. Courses dropped before the end of the second week of classes do not appear on the student's record. A grade of W is not included in calculating the grade point ratio. (A student who officially withdraws from the university after the ninth week of classes while doing failing work in a course ordinarily will be assigned a WF in that course. For exceptions, see the section on "Withdrawal from the University.")

WF (Withdrawn failing). This designation is used when a student who is doing failing work withdraws officially from the university after the end of the ninth week of classes. A grade of WF is included in calculating the grade point ratio. (For exceptions, see the section on "Withdrawal from the University.")

P (Pass) and **F** (Fail.) See the following section.

Inc (Incomplete) indicates that the student's work in a course is incomplete, and that the student has obtained the instructor's permission to complete the course. A grade of Inc is not included in calculating the grade point ratio. (See statement on "Incompletes.")

A student who voluntarily stops attending a class at any time without completing the prescribed change of program procedure will be considered as still registered and will receive an F in the course at the end of the semester.

The Grade Point Ratio (GPR) is computed by dividing the number of points earned by the number of semester hours elected. In computing the grade point ratio, WF is treated as an F. The designations S, W, P, and Inc are not included in the computation of the grade point ratio. The maximum ratio is 4.00; the minimum is 0.00. The grade point ratio is used in determining eligibility for honors, for admission to certain majors, colleges, and curricula, and for membership in a number of campus organizations, when scholastic achievement is one of the criteria.

The Point-Credit Ratio is based on the number of credits earned in courses passed, and on the number of points earned in these courses. The maximum ratio is 4.00; the minimum is 1.00. A student must have a point-credit ratio of 2.00 in order to be eligible for graduation.

Transferred Credits

Credits transferred from other institutions are not used in calculating grade point ratios. The cumulative grade point ratio is determined only by the credits and grade points earned on this campus and on the Medford campus.

Credits transferred from accredited institutions for courses in which grades of C or better were earned may count toward graduation, and may be used to meet requirements for prerequisites and for specific courses.

For transfer students who are not on probation when admitted, credits in any course in which a D grade was earned will be used for meeting prerequisite, course, or credit requirements for a degree, but not necessarily for a major. Such courses will be subject to university regulations regarding the same or similar courses taken on this campus.

A student who moves between a branch campus and its parent campus is not considered a transfer student for purposes of this policy.

The Pass-Fail Grading Program

The Pass-Fail grading program provides greater opportunities for the college student to secure a more liberal and broader academic experience than is usually possible under the traditional, many-stepped grading program. It permits a student to take courses from a personally and intellectually oriented motive, rather than from the pressure to secure and maintain a high grade point ratio. It tends to encourage the student to take a

course outside the field of his major concentration in which his prerequisite knowledge would not be adequate to sustain a high letter grade. Such a program would permit the student to experience learning for its own sake.

1. The Pass-Fail program will apply only to undergraduate courses.
2. a. P designates that the student passed the course, and that credit is granted for the course. A grade of P will **not** be included in calculating the grade point ratio.
b. F designates that the student failed the course and that credit is not granted. A grade F **will** be included in calculating the grade point ratio.
3. a. No more than 20 credits of Pass-Fail courses (other than required Physical Education) will be counted toward degree requirements.
b. No more than two courses in the major and no more than one course in the minor may be taken on a Pass-Fail basis.
c. The student will be limited to selecting no more than five credits per semester (other than required Physical Education) under the Pass-Fail program.
4. a. The Pass-Fail program will not be open to freshmen or to students on academic probation (except for courses in required Physical Education).
b. A student may elect to register under the Pass-Fail program in those courses and/or sections which the various academic departments have indicated are available under this option. Such courses and/or sections are designated in the Time Table. Each department has the right to determine which of its courses it will include or exclude from the program and under what conditions.
c. Special registration is required. Students electing the Pass-Fail option should register for it at the Registration Office during the first week of classes. A change either to or from the Pass-Fail option will not be permitted after the last day for registering for a class.

Incomplete

A report of incomplete indicates that the student's work in a course is incomplete, and that the student has obtained the instructor's permission to complete the course. The instructor will indicate on the grade report what work must be completed in order for the student to receive credit and will

also indicate the approximate grade at the time the work became incomplete.

An Incomplete must be removed during the student's next semester in attendance or it automatically becomes a failure. An extension of this time limit may be granted by the Dean of the appropriate college after consultation with the instructor if the reasons are determined to be beyond the control of the student.

Audit

A student may audit a course only if the instructor consents and if no laboratory or performance skills are involved. Auditors may not recite or take examinations, but are expected to attend with reasonable regularity. Audited courses carry no academic credit and cannot be converted to credit after the sixth day of classes. The student is limited to a total credit and audit load of one course beyond the normal maximum credit load. A course which has been audited may not be repeated at later date for credit, nor may it be converted to a credit basis at a later time. No exceptions to these regulations are permitted except in unusual circumstances and with the permission of the Dean of the College in which the student is registered. Only students who are regularly enrolled in the university may audit a class. No auditors will be permitted in a class with limited enrollment. The student's record will show "audit" for such courses if the instructor certifies by such a grade that the prescribed conditions have been met.

Repetition of Courses

Courses in which a student receives a grade of D may **NOT** be repeated unless prior authorization to do so is granted by the dean of the college in which the student is enrolled.

Courses in which a student receives a grade of F may be repeated on the approval of the adviser. Such a course may be repeated **ONLY ONCE**, unless exception is granted by the dean of the college in which the student is enrolled. Repetition of such a course will result in **ONLY ONE** adjustment of the grade point ratio. Further repetition of the same course (even with the dean's approval) will **NOT** result in further cancellation of previous F grades, unless specific exception is granted by the dean.

When a course initially completed at this university (with a grade of D or F) is repeated at this university (not at another university), only the credit and grade earned in the latter attempt will be figured in the grade point ratio.

There is no provision for repeating a course in which a grade of A, B, or C has been earned.

A student who is repeating a course under these prescribed conditions must fill out a special REQUEST TO REPEAT COURSE form which is available at the registration office.

Classification

A student is classified according to the number of credits he has earned before the beginning of the term for which he is registering and which are creditable toward a degree, according to the following schedule:

Number of credits	Classification	Number of credits	Classification
0- 17	1st sem freshman	60- 73	1st sem junior
18- 29	2nd sem freshman	74- 89	2nd sem junior
30- 43	1st sem sophomore	90-103	1st sem senior
44- 59	2nd sem sophomore	104 & over	2nd sem senior

Credits in general physical education and credits transferred from other institutions will be included in determining classification.

Academic Status

Policy regarding the academic status of students is determined by the Board of Regents.

A student's academic status is determined by the **minimum acceptable standards** which are defined as follows:

Total credit earned	Required cumulative grade point ratio
1-17	1.60
18-43	1.80
44 and over	2.00

A student whose cumulative grade point ratio is at or above the minimum acceptable standards will **NOT** be on probation.

I. Probation

- A. A student whose cumulative grade point ratio is below the minimum acceptable standards will be on probation.
- B. A student may be placed on probation for any of the following additional reasons:
 1. A freshman may be admitted on probation. See the statement under "Entrance Requirements for Freshmen."
 2. A transfer student will be placed on probation at the time of his

admission if he does not meet the minimum acceptable standards as stated above.

3. A student who has been readmitted after being suspended for academic reasons is placed on probation.

A student who is on probation must meet the minimum acceptable standards by the end of his second consecutive semester on probation or he will be suspended. (See II A, B, and C, below, for exceptions.)

A semester is defined for this purpose as a term (other than a summer session) in which the student is enrolled for seven or more semester hours at the end of the second week of classes in the semester. For students carrying less than seven semester hours, two such terms shall be considered the equivalent of one semester.

II. Suspension

A student will be suspended for any one of the following reasons:

- A. A student registered as a first-semester freshman will be suspended if his grade point ratio is less than 0.75 at the end of the semester.
- B. Any student other than a first-semester freshman will be suspended at the end of any semester in which his grade point ratio is less than 1.00 and his cumulative grade point ratio is less than the minimum acceptable standard.
- C. A student who is on probation must meet the minimum acceptable standard at the end of his second consecutive semester on probation or he will be suspended, except that:
 1. A transfer student who has been admitted on probation will be suspended at the end of his first semester in attendance at this university if his grade point ratio is less than the minimum acceptable standard.
 2. A student who has been readmitted after having been suspended from this university, and who earns a grade point ratio of at least 2.00 in his first probationary semester after returning, will receive an additional probationary semester.

Readmission

All requests for readmission, including those by prospective transfer students who have been suspended by another college or university, will be made to the Director of Admissions. The following conditions apply:

- A. A student who has been suspended may not be readmitted before the

lapse of at least one semester, unless it can be satisfactorily demonstrated that his academic suspension was due to factors beyond his control and that the cause(s) has (have) been removed.

- B. Similarly, a student who has been suspended for a second time, and each time thereafter, will not be eligible for readmission until a period of two years has elapsed, unless it can be satisfactorily demonstrated that his academic suspension was due to factors beyond his control and that the cause(s) has (have) been removed.
- C. A student whose request for readmission is denied may appeal the decision to a faculty committee assigned such responsibilities of appeal. He should address the appeal to the Director of Admissions who will forward it to the committee. In making its decision, the committee considers the conditions mentioned above.
- D. A prospective transfer student:
 - 1. who has been suspended for academic reasons from another (former) Wisconsin State University may not enroll at this university until he would be eligible for readmission at the university which suspended him.
 - 2. from any other college or university (than another (former) WSU) who was suspended by the institution he last attended is generally ineligible for admission to this university until he has been out of college for at least one semester following his first suspension or for two years following his second or any subsequent suspension. Each case is considered on its merits.

A student may attend a summer session, after which his academic status will be reevaluated at his request.

Change of Program

A. Drop and Add Procedure.

A student is expected to complete the courses in which he is enrolled. However, he may drop a course during the first two weeks of classes in any semester, if he has permission from his adviser. Similarly, he may add a course during the first week of the semester provided the prescribed degree requirements are being met. No student may register for a course after the sixth day of classes. In order to be valid, all changes must follow the procedure established by the registration office.

(Note to advisers: If a change of program during the first two weeks involves only a change of sections in the same course, the change will be handled by the chairman of the department offering the course. It need not be approved by the adviser or the dean. All other changes during the

first two weeks of classes will be handled by the adviser and the chairmen of the departments concerned.)

Dropping a course after the second week and through the ninth week of classes will be permitted if approved by the student's adviser and instructor. After the ninth week of classes in a semester, decisions on drops will be made by the dean of the college in which the student is enrolled, but drops will be permitted only if the reasons for dropping are clearly beyond the control of the student.

A student who officially drops a course after the second week of classes in a semester will receive a W in the course. Repeated occurrence of W will be cause for review of the student's record by the committee of Academic Deans, and possible dismissal of the student from the university.

A student who voluntarily stops attending a course at any time without completing the prescribed change of program procedure will be considered as still registered and will receive an F in the course at the end of the semester.

B. Withdrawal from the University

A student who finds it necessary to leave the university at any time during the semester should report to the Student Affairs office to initiate procedures for withdrawal. Subsequent procedure requires the approval of the dean of the college in which the student is enrolled. A student who officially withdraws from the university after the ninth week of classes in a semester will be assigned grades of WF or W, except that during the final five weeks of the semester an Inc may be assigned at the discretion of the instructor. The dean of the college in which the student is enrolled may assign a W if the student's withdrawal from the university is judged to be for reasons clearly beyond the control of the student.

A student who voluntarily leaves the university at any time without completing the prescribed withdrawal procedures will be considered as still registered and will receive an F in each course in which he is enrolled. In order to be valid, any withdrawal procedures initiated during the semester must be completed by the last day of the semester in which the student leaves the university.

Students who have withdrawn from the university after the second week of classes may return for the following semester without formal readmission, and they may register for the following semester during the period established for the registration of other continuing students.

Reports

At the end of each semester, a report of the student's grades is mailed to him at his home address.

Transcripts

A student may order transcripts of his record by addressing a request to the Record Office. The first transcript is furnished without charge. Subsequent transcripts are furnished for \$1.00 each, except that when more than one is ordered at a time the charge is \$1.00 for the first one and twenty-five cents for each additional copy.

Students who are delinquent in their financial obligations to the university will not be allowed to receive a transcript or a diploma, or be allowed to preregister or register for a subsequent term.

Requests for information concerning activities and scholastic records of students or former students of University of Wisconsin-Stevens Point will not be honored without an authorization for release of the information signed by the individual whose record is involved; except that the university cooperates with high schools in follow-up studies of their graduates.

Final Examinations

All instructors are expected to meet with their classes during the final examination period at the time and place scheduled, either to give a final examination, or to provide feedback from earlier examinations, or to provide an alternative education experience. Exceptions must be made only with the appropriate dean's approval, except that instructors at their discretion may modify the schedule for students who have three examinations on one day or other good reasons.

Smoking in Classes

Smoking by students, faculty, or staff is not allowed in university classrooms. It is the responsibility of the instructor to insure that smoking is not permitted in his classroom or laboratory session. Smoking is not allowed in academic buildings except in certain designated smoking areas and faculty and administrative offices.

Attendance

The university expects all students to attend classes regularly. Within this general guideline an instructor may establish more detailed policies on attendance for his classes. The instructor is expected to give a clear explanation of his attendance policies to all of his classes at the beginning of each semester. The university does not have any system of permitted "cuts." Regular attendance is expected, and the implementing of this policy is the joint responsibility of the student and instructor.

Each student has the responsibility to confer with his instructors regarding all absences. If sudden departure from campus prevents his communicating with each of his instructors, a student who is absent for emergency or extraordinary reasons is expected to notify the Associate Dean of Students.

Failure on the part of a student to make satisfactory arrangements with his instructors regarding excessive absences may be cause for the student's dismissal from a class or from the university. Dismissal may be authorized by the Associate Dean or by the Dean of the College in which the student is enrolled. Such dismissal may carry a grade of F in the course from which the student is dismissed, or in all courses if he is dismissed from the university.

A faculty member in charge of any off-campus trips by an authorized university group (such as class field trips, athletic teams, musical or dramatic organizations, and debate) shall duplicate lists of participating students, distribute a copy to each student in the group, and send a copy to the Office of Student Affairs. Each participating student is responsible for making appropriate arrangements in advance with instructors of each class to be missed.

Instructors should furnish students a reasonable amount of help in making up work missed, where the reason for absence concerns emergencies, off-campus trips, illness, and the like.

Residence Requirements

No more than 90 transfer credits may be accepted for a degree at the University of Wisconsin-Stevens Point.

To be eligible for a degree a student must have earned at least 30 of the total credits (exclusive of required physical education) required for the degree in residence or by extension at this university.

Second Baccalaureate Degree

A student who has completed one baccalaureate degree may be granted a second baccalaureate degree if he completes:

1. thirty additional credits;
2. all requirements of the second degree.

Courses completed for the first degree may be used to satisfy requirements of the second degree. The major completed must be one that is acceptable for the second degree.

Extension, Evening, and Saturday Classes

The university offers evening extension classes in some fifteen to twenty cities in central Wisconsin. A good number of evening and Saturday morning courses are offered on-campus which provide residence credit. These courses are designed to meet the needs of adults wishing to continue or renew their educational experiences. Courses are offered at the freshman as well as the senior level and choices can be made from about forty different courses. Some graduate level courses are available.

For a three credit off-campus course, classes meet once a week for seventeen weeks, and each meeting lasts two and one-half hours. Fees are \$20.25 per undergraduate credit and \$25.00 per graduate credit (subject to change). On-campus evening and Saturday classes are listed in the regular time table. Fees for on-campus classes are \$21.50 per undergraduate credit.

Students are billed for fees through the Business Office. Payments must be made as indicated on the invoice. There is a penalty fee for late payment. Books, where applicable, are included in the fee payment. Credits will be filed in the Registrar's Office at Stevens Point, but will be transferred to other colleges on request. Before enrolling, a student should obtain assurance that credit earned can be applied to the curriculum he is following at the college to which he wishes the credit transferred.

The following limitations are imposed on credits earned in extension, evening, and Saturday courses, and each student is responsible for staying within these limitations:

1. Degree candidates must be formally admitted as a student to the University of Wisconsin-Stevens Point. Application forms must be processed through the Admissions Office.
2. Students who are employed as teachers shall be granted no more than four credits total for extension, correspondence, evening and Saturday courses in any one semester.
3. Extension, correspondence, evening and Saturday courses shall be counted as part of a student's study load if he is regularly enrolled in a college or university during the semester the courses are taken.
4. It is suggested that students consult an adviser for assistance in selecting courses.

For information on courses currently being offered in extension, evening and Saturday classes, write the Office of the Director of Extended Services.

Summer Sessions

The university operates an eight-week summer session each year. A variety of courses is available both at the undergraduate and the graduate levels. High school graduates, not otherwise eligible for admission to this university, may establish eligibility on the basis of summer school attendance. The regular faculty provides the instruction, and the full facilities of the university, including residence halls and the University Center, are available.

Each summer the Universities of Wisconsin sponsor and direct various summer session camp programs. Students should consult their adviser regarding the applicability of credits toward requirements in their curriculum.

A summer school timetable may be secured by writing to the Director of Summer Sessions.

Graduate Study

Master of Science, Master of Science in Teaching, and Master of Arts in Teaching programs are available in specific areas. All courses are listed in the university catalog.

Universities of Wisconsin work cooperatively to provide opportunities within reasonable access to all students of the State.

A limited number of graduate assistantships are available to qualified students who participate in the academic-year program on a full-time basis.

International Programs

Opportunities to study overseas include a Soviet and East Central European Seminar and other projected short term study tours in addition to two major overseas study programs, the "Semester in Britain" and the "Semester in Germany."

The program in London operates each semester and is residential-instructional in nature. It is open mainly to juniors. Students may apply as early as during their freshman year. Selection of students for the program is made a year in advance in order to provide thorough orientation for the experience. Two faculty members accompany the group to London. The remainder of the staff is drawn from colleges and universities in the London area. A three-four week Continental Study Tour may be part of the semester's work if the student group so chooses.

The "Semester in Germany," new in the fall term, 1971, operates on the same general plan but for first semester only each year. It is open to sophomores, juniors and seniors.

Additional semester programs abroad are in the planning stages.

On the Stevens Point campus, the following Area Study programs are available to students: majors and minors in Latin American Studies, Russian and East Central European Studies and American Civilization. A minor in Asian Studies is also available.

Cooperative Education Program

The **Cooperative Education Program** is a unique five year program de-

signed to prepare students more fully for a career in the field of their major studies. It is available to both men and women.

The program accomplishes its purpose by arranging for the student to alternate between periods of full-time study on campus and periods of full-time, paid employment, off-campus in work directly related to the student's major field of study and career goals. (A "period" as here used is either a semester or a summer term, depending on when the period occurs.) In this way the student attains a four year academic education and at the same time gains roughly one and one-half years of valuable practical experience in his chosen professional field.

Although it takes five years to complete the program, students who are participating in it find that they gain these benefits:

1. The knowledge and training they acquire give them a head-start toward employment after graduation.
2. It increases their self-confidence through finding that they **can** handle responsibility and make judgments.
3. They gain greater understanding of other people and skill in human relations.
4. They find greater meaning in their classroom work, as they see its principles and theories applied in the work-a-day world. They then return to the campus with greater motivation and get a greater return from their academic efforts.
5. Although financial assistance is not the basic purpose of the program, Co-op students find that their earnings in the work period do help them to meet part of their school expenses.

All Co-op students spend their first two semesters on campus. During that year, they attend Co-op orientation sessions at which the program is discussed in detail. They complete application forms, and are interviewed by the Co-op Education Coordinator and by prospective employers. The first off-campus work assignment will occur at the beginning of the second or third academic year, depending on the student's major field and the availability of employment opportunities.

Students desiring more information about the program should address their request to the Office of Cooperative Education, Room 240, Main Building.

College of Fine Arts

William J. Hanford, Dean

At Stevens Point, the fine arts are identified as a major concern of education and are taught for humanistic purposes. Traditionally, six of the fine arts have emerged as major arts: art, drama, dance, music, architecture, and literature. The College of Fine Arts offers instruction in the first five of these. Offerings in art, drama, dance, and music are well developed. Offerings in pre-architecture are currently available covering the first two years, preparing the student to transfer to a school of architecture. The sixth of the fine arts, literature, is offered in various departments of the College of Letters and Science. The Department of Communication, offering courses in Communication, Journalism, and Radio-TV-Film, is in the College of Fine Arts.

Program

The fine arts program comprises two types of educational offerings: (a) courses of study; and (b) productions of art exhibits, concerts, plays, forsenics, etc. In many productions, students may enroll for credit, as they do in courses. In all productions, students may participate without credit. Many courses and productions are open to participation by all students enrolled in the university. Attendance at all productions is open to all students enrolled in the university as well as to all residents of central Wisconsin. A number of courses and productions are offered off-campus in communities of central Wisconsin. In summary, the College of Fine Arts merges both curricular and co-curricular aspects into a single program. This serves three groups: the fine arts majors, the general student body, and the citizens of central Wisconsin.

Degrees

Bachelor of Science and Bachelor of Arts degrees are offered for students majoring in art, communication, and drama. The Bachelor of Music degree is offered for students majoring in music and music literature.

Curriculum for the Bachelor of Arts Degree

- I. **English Language and Literature** — 12 credits as follows:
 - A. English 101 and 102, or 103 and 104, or 105 and 106.
 - B. English 211 and 212, or 213 and 214.

- II. **Foreign Language** — 24 credits (including four credits in conversation and composition courses beyond the first-year level) in one language, or 28 credits in two languages, or 30 credits in three. No less than eight credits in a single language will be accepted; and a minimum of 14 credits must be offered in one. High school work with grades of C or better will be accepted for this requirement at the rate of four college credits for each high school unit up to a total of six units or 24 credits. However, a minimum of eight college credits is required.
- III. **Special Humanities Requirements** — 10 credits within the following range of studies: art history, history of music, literary criticism, philosophy of art, colloquium. Students majoring in fields other than language and literature may satisfy this requirement with 10 credits in any literature course or courses numbered 300 or above.
- IV. **History** — 12 credits, including six credits of American history.
- V. **Social Studies** — six credits, selected from the following: Natural Resources 370; cultural geography; economics; philosophy (logic excluded); political science; psychology; sociology and anthropology.
- VI. **Natural Science, and Mathematics or Logic** — one year of laboratory science; and one year of mathematics or one year of logic.
- VII. **Physical Education** — four credits.

Students will register in one section of Physical Education 101 in each of their four academic years; they may not repeat the same activity at the same level. Some courses in Dance may be applied toward this requirement. (See the listing under Dance, in the section COURSES OF INSTRUCTION.)

Students transferring from other institutions will meet this requirement on the basis of one credit per year. Thus, students entering as seniors will be required to earn one credit; as juniors, two credits; as sophomores, three credits; and as freshmen, four credits.

Students who believe they have medical or other grounds for exception must present their claims to the Physical Education department after registration.

- VIII. **Major study and approved electives** to total 120 credits in addition to the required physical education (total: 124). A minimum of 40 credits must be selected from courses numbered 300 or above.

NOTE: Candidates for degrees must fill out an APPLICATION FOR GRADUATION at the Registration and Records office not later than the beginning of the semester or summer session in which they expect to complete

their work. No degree will be granted unless the candidate receives the approval of the faculty during such semester or summer session.

Order of Required Studies:

Each student is expected to complete in the first two years the required courses listed in the curriculum above (except in number VII and VIII), although some exceptions may be granted by the student's adviser **and** the dean. In any case, the following shall be completed:

1. All requirements in English composition and literature and foreign language (unless more than two years are required).
2. Social studies — six credits.
3. Natural Science, and mathematics or logic (contact the dean for approved mathematics course sequence).
4. History — six credits.
5. By the end of the sophomore year the student must select a major study and plan his course with an adviser assigned by the chairman of the major department.

Curriculum for the Bachelor of Music Degree

- I. **English**—six credits: English 101 and 102, or 103 and 104, or 105 and 106.
- II. **Communication** — two credits: Communication 101, or any equivalent performance course in oral communication.
- III. One of the following:
 - A. **Foreign Language** — eight credits.

The equivalent of one year of college work in one language must be completed before credit will count toward this requirement.

Students will be placed in foreign language courses on the basis of their high school records, or a placement examination, and will not receive credit for courses taken at a lower level than that in which they are placed.

This requirement may be satisfied by two acceptable units of high school work completed in one language. Normally, an acceptable unit is one year's work with a grade of C or better.

B. Mathematics — four credits.

Students will be placed in mathematics courses on the basis of their high school records, and will not receive credit for courses taken at a lower level than that in which they are placed.

This requirement may be satisfied by acceptable work in three units of high school mathematics, excluding general mathematics. Acceptable work is an average grade of C or better in the aggregate of three units.

IV. History — six credits: History 105 and 106, or 107 and 108, or 211 and 212.

V. Humanities — nine credits, selected so as to include courses in at least two of the following groups:

A. History and appreciation of art, dance, music, theater; history of art, dance, music, theater.

B. Any literature course may be used to satisfy this requirement; except that if Introduction to Literature, or the survey course in Dramatic Literature or American Literature or English Literature is selected, the full year course must be completed to be credited on this requirement.

C. Philosophy (logic and philosophy of science excluded), colloquium.

VI. Social Studies—nine credits, selected so as to include courses in at least two of the following groups:

A. Economics.

B. Cultural Geography.

C. History (in addition to IV, above).

D. Natural Resources 370.

E. Political Science.

F. Psychology.

G. Sociology and Anthropology.

VII. Natural Science. Select either A or B:

A. Eight to ten credits from the following courses:

1. Astronomy 311.

2. Biology 101, 130, 160.

3. Chemistry 101, 103, 105, 106, 115, 116. (See Note 3 under Chemistry.)
4. Geography 101, 102, 103.
5. Geology 101, 104, 105.
6. Physics 101, 103, 104, 110, 211, 212.

In any one subject, if the course numbered 101 is used to meet this requirement, the other courses listed for that subject can not be used.

Courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.

For students taking the Bachelor of Music Degree in **Applied Music** this requirement may be reduced to five credits with two acceptable units of high school science, or may be eliminated with three acceptable units of high school science. An acceptable unit is one year of work with a grade of C or better.

- B. Three courses selected from the following: Astronomy 100, Biology 100, Chemistry 100, Geography 100, Geology 100, Physics 100.

These courses are designed to increase the student's knowledge, understanding, and appreciation of the science, and its significance in man's attempt to prosper in his environment.

Substitution for the courses listed in this requirement may be accepted with the consent of the Dean of the College of Fine Arts.

VIII. Physical Education—four credits.

Students will register in one section of Physical Education 101 in each of their four academic years; they may not repeat the same activity at the same level. Some courses in Dance may be applied toward this requirement. (See the listing under Dance, in the section COURSES OF INSTRUCTION.)

Students transferring from other institutions will meet this requirement on the basis of one credit per year. Thus, students entering as seniors will be required to earn one credit; as juniors, two credits; as sophomores, three credits; and as freshmen, four credits.

Students who believe they have medical or other grounds for exception must present their claims to the Physical Education department after registration.

IX. Music — as specified under “Music” in the section of the catalog describing COURSES OF INSTRUCTION. The degree is available in three options:

- A. Bachelor of Music.
- B. Bachelor of Music in Applied Music.
- C. Bachelor of Music in Music Literature.

X. (For teacher certification ONLY) Professional Education — 20 credits: Education 323, 336, 380, 381, 398.

Students seeking teacher certification should refer to the pertinent material under COLLEGE OF PROFESSIONAL STUDIES.

XI. Approved electives to total 120 credits in addition to required physical education (total: 124 credits).

XII. At least 40 credits must be earned in courses numbered 300 or above. The dean of the college may, at his discretion, accept a minimum of 32 credits.

NOTE: Candidates for degrees must fill out an APPLICATION FOR GRADUATION at the Registration and Records office not later than the beginning of the semester or summer session in which they expect to complete their work. No degree will be granted unless the candidate receives the approval of the faculty during such semester or summer session.

Curriculum for the Bachelor of Science Degree

I. English—six credits: English 101 and 102, or 103 and 104, or 105 and 106.

II. Communication — two credits: Communication 101, or any equivalent performance course in oral communication.

III. One of the following:

A. Foreign Language — eight credits.

The equivalent of one year of college work in one language must be completed before credit will count toward this requirement.

Students will be placed in foreign language courses on the basis of their high school records, or a placement examination, and will not receive credit for courses taken at a lower level than that in which they are placed.

This requirement may be satisfied by two acceptable units of high

school work completed in one language. Normally, an acceptable unit is one year's work with a grade of C or better.

B. Mathematics — four credits.

Students will be placed in mathematics courses on the basis of their high school records, and will not receive credit for courses taken at a lower level than that in which they are placed.

This requirement may be satisfied by acceptable work in three units of high school mathematics, excluding general mathematics. Acceptable work is an average grade of C or better in the aggregate of three units.

IV. History — six credits.

All history courses may be applied toward this requirement. The courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.

V. Humanities and Social Science — 18 credits, distributed as follows:

A. Humanities — nine to twelve credits, selected so as to include courses from at least two of the following groups, with a maximum of six credits in any one group:

1. All courses in American Civilization.
2. Any literature course, whether in English or another language. The courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met:
 - a. All courses in Colloquium.
 - b. All courses in Comparative Literature, except 231 and 232.
 - c. English 170, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 275, 280, 281, 282, 283, 284, 285, 286, 287, 288, 310, 312, 314, 315, 316, 317, 318, 319, 321, 322, 323, 324, 325, 326, 327, 328, 330, 333, 334, 336, 361, 362, 364, 367, 370, 372, 375, 377, 378, 380, 385.
 - d. French 341, 342, 350, 355, 360, 370.
 - e. German 335, 356, 360, 370, 441, 442.

- f. Spanish 343, 371, 441, 442, 449, 450, 451, 453.
3. Foreign Language culture and civilization:
 - a. French 331, 332.
 - b. German 331, 332.
 - c. Russian 331, 332.
 - d. Spanish 331, 332.
 4. All courses in Philosophy.
 5. Any course in the literature, history, philosophy, appreciation, or logic of Art, Communication, Dance, Drama, Music:
 - a. Art 282, 283, 381, 382, 383, 384, 385, 386, 387, 388.
 - b. Communication 105, 107, 219, 228, 302, 321, 352.
 - c. Comparative Literature 231, 232.
 - d. Dance 101.
 - e. Drama 105, 213, 215, 251, 252, 317, 318, 410, 412, 462.
 - f. Home Economics 329.
 - g. Music 100, 101, 120, 121, 300, 320, 321, 322, 323, 324, 325, 326, 327, 420, 426, 427, 428, 429.
 6. For students not majoring or minoring in Art: Art 103, 104, 221, 231, 232, 241, 251, 261, 271, 321, 331, 332, 341, 342, 343, 344, 351, 361, 371.
 7. All courses in Religious Studies.
- B. Social Science** — six to nine credits, with a maximum of six credits in any one group:
1. Economics.
 2. Cultural Geography.
 3. Natural Resources 370.
 4. Political Science.
 5. Psychology.
 6. Sociology and Anthropology.

VI. Natural Science. Select either A or B:

A. Eight to ten credits from the following courses:

1. Astronomy 311.
2. Biology 101, 130, 160.
3. Chemistry 101, 103, 105, 106, 115, 116. (See Note 3 under Chemistry.)
4. Geography 101, 102, 103.
5. Geology 104, 105.
6. Physics 101, 103, 104, 110, 211, 212.

In any one subject, if the course numbered 101 is used to meet this requirement, the other courses listed for that subject can not be used.

Courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.

B. Three courses selected from the following: Astronomy 100, Biology 100, Chemistry 100, Geography 100, Geology 100, Physics 100.

These courses are designed to increase the student's knowledge, understanding, and appreciation of the science, and its significance in man's attempt to prosper in his environment.

Substitution for the courses listed in this requirement may be accepted with the consent of the Dean of the College of Fine Arts.

VII. Physical Education — four credits.

Students will register in one section of Physical Education 101 in each of their four academic years; they may not repeat the same activity at the same level. Some courses in Dance may be applied toward this requirement. (See the listing under Dance, in the section COURSES OF INSTRUCTION.)

Students transferring from other institutions will meet this requirement on the basis of one credit per year. Thus, students entering as seniors will be required to earn one credit; as juniors, two credits; as sophomores, three credits; and as freshmen, four credits.

Students who believe they have medical or other grounds for exception must present their claims to the Physical Education department after registration.

VIII. Major study and approved electives to total 120 credits in addition to required physical education (total: 124 credits).

IX. At least 40 credits must be earned in courses numbered 300 or above. The dean of the college may, at his discretion, accept a minimum of 32 credits.

NOTE: Candidates for degrees must fill out an APPLICATION FOR GRADUATION at the Registration and Records office not later than the beginning of the semester or summer session in which they expect to complete their work. No degree will be granted unless the candidate receives the approval of the faculty during such semester or summer session.

Teacher Certification

Students who wish to qualify for certification to teach at the secondary school level, with a major offered in the College of Fine Arts, have two options available:

Option I. In the College of Professional Studies, they must complete:

- A. The general requirements for the Bachelor of Science degree in the College of Professional Studies.
- B. The specified major under plan I, II, or III, as listed under major-minor options in secondary education.
- C. The professional education sequence established for certification in secondary education.

Option II. In the College of Fine Arts, they must complete:

- A. The general requirements for the Bachelor of Arts, or Bachelor of Music, or Bachelor of Science degree in the College of Fine Arts.
- *B. The specified major under plan I, II, or III, as listed under major-minor options in secondary education.
- *C. The professional education sequence established for certification in secondary education.

*See the appropriate paragraphs in the section on the College of Professional Studies.

College of Letters and Science

S. Joseph Woodka, Dean
William A. Johnson, Assistant Dean

The University of Wisconsin-Stevens Point offers courses in Letters and Science leading to the Bachelor of Arts and Bachelor of Science degrees.

The aims of the general courses for the Bachelor of Arts and the Bachelor of Science degrees are: (a) to provide the student with a sound education in social studies, sciences, languages, and humanities which will prepare him to be a well informed citizen qualified for responsibilities and leadership in a democratic society; and (b) to provide the basic training for professional, technical, and graduate studies. Most professional and technical fields require education beyond the four-year level and an increasing number of non-professional fields require a college degree. Employers wish to secure the services of persons with sound educational backgrounds. It is the purpose of the Letters and Science curricula to provide this education.

Advisers

Each student in Letters and Science is assigned to an adviser in accordance with the stated policy of the university. The adviser is available to assist the student in his selection of courses and to help him in meeting academic requirements for graduation. It is recommended that the student consult his adviser at the time he makes his course selections, but the student must realize that it is his own responsibility to meet all college and university requirements, rules, and regulations.

Freshmen and sophomores are advised to consult the chairman of the department in which they intend to major, to be sure that they are meeting departmental requirements concerning advising and curriculum.

By the time the student has earned 56 credits (exclusive of required physical education) he must have selected the area of his major study. At that time and thereafter, the chairman of the student's major department may assign an adviser who will assist the student in developing his program of studies.

Semester Study Load

In order to graduate, a student must earn 120 credits in addition to credits in required physical education.

A normal (average) study load in the College of Letters and Science is 15 academic credits per semester plus one credit of physical education when required. In order to approximate an average of 15 academic credits per semester, students usually register for 12-16 academic credits per semester plus one credit of physical education each year. This is considered a “normal” study load.

Students in the College of Letters and Science **MUST** observe the following regulations, if they wish to carry more than the “normal” load:

A student who wishes to carry 17 academic credits (exclusive of required physical education) in any semester must obtain the signature of **both** his adviser and his major department chairman. Permission to carry 17 academic credits will depend primarily on the quality of the student’s academic record.

A student desiring to carry 18 academic credits (exclusive of required physical education) must secure the signature of the Dean of the College. Each request is decided on its own merits, although permission to carry 18 academic credits is generally given only in **highly unusual** cases and only to students whose academic records warrant the exception.

Curriculum for the Bachelor of Arts Degree

- I. **English Language and Literature**—12 credits as follows:
 - A. English 101 and 102, or 103 and 104, or 105 and 106.
 - B. English 211 and 212, or 213 and 214.
- II. **Foreign Language**—24 credits (including four credits in conversation and composition courses beyond the first-year level) in one language, or 28 credits in two languages, or 30 credits in three. No less than eight credits in a single language will be accepted; and a minimum of 14 credits must be offered in one. High school work with grades of C or better will be accepted for this requirement at the rate of four college credits for each high school unit up to a total of six units or 24 credits. However, a minimum of eight college credits is required.
- III. **Special Humanities Requirements** — 10 credits within the following range of studies: art history, history of music, literary criticism, philosophy of art, colloquium. Students majoring in fields other than language and literature may satisfy this requirement with 10 credits in any literature course or courses numbered 300 or above.
- IV. **History**—12 credits, including six credits of American history.

- V. Social Studies** — six credits, selected from the following: Natural Resources 370; cultural geography; economics; philosophy (logic excluded); political science; psychology; sociology and anthropology.
- VI. Natural Science, and Mathematics or Logic** — one year of laboratory science; and one year of mathematics or one year of logic.
- VII. Physical Education** — four credits.

Students will register in one section of Physical Education 101 in each of their four academic years; they may not repeat the same activity at the same level. Some courses in Dance may be applied toward this requirement. (See the listing under Dance, in the section COURSES OF INSTRUCTION.)

Students transferring from other institutions will meet this requirement on the basis of one credit per year. Thus, students entering as seniors will be required to earn one credit; as juniors, two credits; as sophomores, three credits; and as freshmen, four credits.

Students who believe they have medical or other grounds for exception must present their claims to the Physical Education department after registration.

- VIII. Major study and approved electives** to total 120 credits in addition to the required physical education (total: 124). A minimum of 40 credits must be selected from courses numbered 300 or above.

NOTE: Candidates for degrees must fill out an APPLICATION FOR GRADUATION at the Registration and Records office not later than the beginning of the semester or summer session in which they expect to complete their work. No degree will be granted unless the candidate receives the approval of the faculty during such semester or summer session.

Order of Required Studies:

Each student is expected to complete in the first two years the required courses listed in the curriculum above (except in number VII and VIII), although some exceptions may be granted by the student's adviser **and** the dean. In any case, the following shall be completed:

1. All requirements in English composition and literature and foreign language (unless more than two years are required).
2. Social studies — six credits.
3. Natural Science, and mathematics or logic (contact the dean for approved mathematics course sequence).

4. History — six credits.
5. By the end of the sophomore year the student must select a major study and plan his course with an adviser assigned by the chairman of the major department.

Curriculum for the Bachelor of Science Degree

- I. **English**—six credits: English 101 and 102, or 103 and 104, or 105 and 106.
- II. **Communication** — two credits: Communication 101, or an equivalent performance course in oral communication.
- III. **Foreign Language** — eight credits.

The equivalent of one year of college work in one language must be completed before credit will count toward this requirement.

Students will be placed in foreign language courses on the basis of their high school records, or a placement examination, and will not receive credit for courses taken at a lower level than that in which they are placed.

This requirement may be satisfied by two acceptable units of high school work completed in one language. Normally, an acceptable unit is one year's work with a grade of C or better.

- IV. **Mathematics** — four credits.

Students will be placed in mathematics courses on the basis of their high school records, and will not receive credit for courses taken at a lower level than that in which they are placed.

This requirement may be satisfied by acceptable work in three units of high school mathematics, excluding general mathematics. Acceptable work is an average grade of C or better in the aggregate of three units. A unit is one year's work.

- V. **History** — six credits.

All history courses may be applied toward this requirement. The courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.

- VI. **Humanities and Social Science** — 18 credits, distributed as follows:

A. Humanities — nine to twelve credits, selected so as to include courses from at least two of the following groups, with a maximum of six credits in any one group:

1. American Civilization.
2. Any literature course, whether in English or another language. The courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.
3. Foreign Language culture or civilization.
4. Philosophy.
5. Any course in the literature, history, philosophy, appreciation, or logic of Art, Communication, Dance, Drama, Music.
6. For students not majoring or minoring in Art, specialized courses in the performance of Art.
7. Religious Studies.

For a listing of specific courses which meet the Humanities requirement, see paragraph V. A., under the curriculum for the Bachelor of Science Degree in the College of Fine Arts.

B. Social Science—six to nine credits, with a maximum of six credits in any one group:

1. Economics.
2. Cultural Geography.
3. Natural Resources 370.
4. Political Science.
5. Psychology.
6. Sociology and Anthropology.

VII. Natural Science. Select either A or B:

A. Eight to ten credits from the following courses:

1. Astronomy 311.
2. Biology 101, 130, 160.
3. Chemistry 101, 103, 105, 106, 115, 116. (See note 3 under Chemistry.)
4. Geography 101, 102, 103.
5. Geology 104, 105.
6. Physics 101, 103, 104, 110, 211, 212.

In any one subject, if the course numbered 101 is used to meet this requirement, the other courses listed for that subject can not be used.

Courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.

- B. Three courses** selected from the following: Astronomy 100, Biology 100, Chemistry 100, Geography 100, Geology 100, Physics 100.

These courses are designed to increase the student's knowledge, understanding, and appreciation of the science, and its significance in man's attempt to prosper in his environment.

Substitution for the courses listed in this requirement may be accepted with the consent of the Dean of the College of Letters and Science.

VIII. Physical Education — four credits.

Students will register in one section of Physical Education 101 in each of their four academic years; they may not repeat the same activity at the same level. Some courses in Dance may be applied toward this requirement. (See the listing under Dance, in the section COURSES OF INSTRUCTION.)

Students transferring from other institutions will meet this requirement on the basis of one credit per year. Thus, students entering as seniors will be required to earn one credit; as juniors, two credits; as sophomores, three credits; and as freshmen, four credits.

Students who believe they have medical or other grounds for exception must present their claims to the Physical Education department after registration.

- IX. Major study and approved electives** to total 120 credits in addition to required physical education (total: 124 credits).
- X. At least 40 credits** must be earned in courses numbered 300 or above. The dean of the college may, at his discretion, accept a minimum of 32 credits.
- XI. The "One Hundred Credit Rule" — At least 100 of the 120 credits** (exclusive of required physical education) must be earned in courses offered in the College of Letters and Science. Credits earned in courses outside the College of Letters and Science may be counted in the 100 if (1) they are in courses listed (other than as electives) in the curriculum for the degree; or (2) they are used as part of a major or minor acceptable in the College of Letters and Science.

NOTE: Candidates for degrees must fill out an APPLICATION FOR GRADUATION at the Registration and Records office not later than the beginning of the semester or summer session in which they expect to complete

their work. No degree will be granted unless the candidate receives the approval of the faculty during such semester or summer session.

Teacher Certification

Students who wish to qualify for certification to teach at the secondary school level, with a major offered in the College of Letters and Science, have two options available:

Option I. In the College of Professional Studies, they must complete:

- A. The general requirements for the Bachelor of Science degree in the College of Professional Studies.
- B. The specified major under plan I, II, or III, as listed under major-minor options in secondary education.
- C. The professional education sequence established for certification in secondary education.

Option II. In the College of Letters and Science, they must complete:

- A. The general requirements for the Bachelor of Arts or Bachelor of Science degree in the College of Letters and Science.
- *B. The specified major under plan I, II, or III, as listed under major-minor options in secondary education.
- *C. The professional education sequence established for certification in secondary education.

*See the appropriate paragraphs in the section on the College of Professional Studies.

Major Study

By the time he has earned 56 academic credits (exclusive of required physical education) the student must declare his intention to major in a given department. This is accomplished at registration by filling in the appropriate blank on the registration card with the name of the major. A department may refuse to accept or to continue a student for major study in that department if the student's general academic record does not satisfy regulations established by the department and the university. See the statement headed "Department Acceptance of Major Candidates" in the section of the catalog headed ACADEMIC WORK.

Acceptable majors in the College of Letters and Science are: American civilization, biology, business administration, chemistry, economics, English, French, general science (Paragraph A under general science in section "Courses of Instruction"), geography, German, history, Latin American

studies, mathematics, philosophy, physics, political science, psychology, Russian and East Central European studies, social science (Paragraph A under social science in section "Courses of Instruction"), sociology and anthropology, and Spanish.

Minor Study

The Letters and Science degree does not require a minor, but any minor listed in the catalog may be completed. Students at the junior level should, if they intend to declare a minor, indicate this intent by filling in the blank for the minor on the registration card. The minor need not be in any of the departments of the College of Letters and Science, so long as the "One Hundred Credit Rule" is observed. (See paragraph XI in the statement of the curriculum for the degree.)



Preparation for Professional Study

Students planning to enter various professional schools complete part of their college work before being admitted to professional study. A student with such an objective may register in Letters and Science and will be assigned an adviser familiar with the requirements of the profession which he plans to follow. The student will plan his studies within the curriculum of either the Bachelor of Arts or the Bachelor of Science degree and will be responsible for his professional studies.

General descriptions of requirements for some professions are given on the following pages. More specific suggestions will be sent upon request. Different schools training for the same profession sometimes require different pre-professional studies; hence each student must be acquainted with the requirements of the school which he plans to enter, and should consult carefully and frequently with his adviser. The problems confronting each student are given careful consideration by his adviser and the Dean of Letters and Science. **However, the student is responsible for meeting all college and university requirements, rules, and regulations.**

Dentistry

Students preparing to enter dental college should take a course similar to the pre-medical course. Generally speaking, dental schools strongly recommend, but do not specifically require, foreign language. The ruling of the Dental Educational Council of America calls for at least six semester hours of the following: English, biology, physics, and inorganic chemistry, and most schools require a year of organic chemistry. However, some require a minimum of three semester hours. Sufficient additional credits to total at least 60 hours must be submitted as preparation for the customary three years in leading schools of dentistry.

Education

A student who is considering preparation for teaching should follow the general requirements for the Bachelor of Science degree. He should include the specific requirements of that college and of the major study which he plans to pursue.

Students who have not determined the teaching area for which they will study should consult not only their advisers but also the Assistant Dean of the School of Education.

Engineering and Scientific Research

The requirements for professional and graduate study in the fields of engineering and research vary with the specialization but are centered in mathematics and sciences, and often necessitate foreign language ability for research. From one to four years' preparation for these professions (depending upon the specialization) may be completed at Stevens Point. Advisers assist in the student's selection of studies, which should lead toward the Bachelor of Science degree.

Law

Pre-legal studies require three to four years. A good record made while completing the general and major requirements for a Bachelor of Arts or a Bachelor of Science degree will qualify a candidate for admission to Law School. Law Schools recommend, however, that candidates select majors in social studies (history, economics, political science, American institutions) and gain some understanding of American economic, political, and constitutional history as well as an acquaintance with philosophy and social psychology.

Medicine

A student who wishes to prepare for a career in medicine registers as a candidate for a B.S. or B.A. degree. He may major in any field and integrate the pre-medical requirements with the requirements for a degree in his major field.

Completion of pre-medical requirements does not insure admission to a medical school. This is very competitive. Most medical schools make their selection on the basis of three criteria: at least a "B" average, the recommendation of instructors, and a satisfactory score on a medical aptitude test.

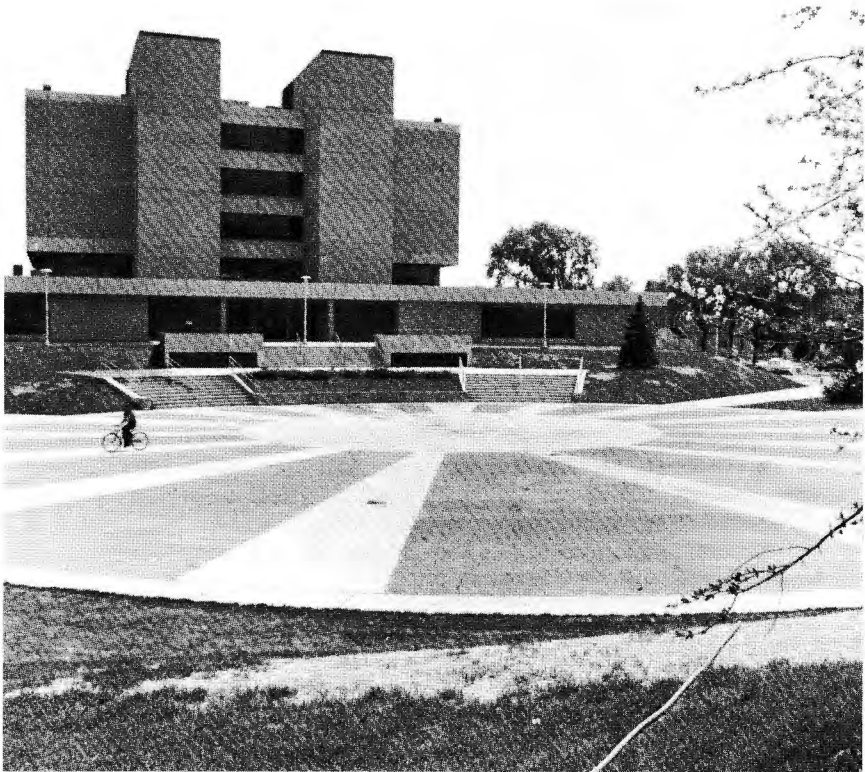
Most medical schools require that the Medical Aptitude Test be taken before admission. This test is administered annually and may be taken in the sophomore or junior year. Few candidates are accepted with less than four years of undergraduate work.

Mortuary Science

This university provides the two years of pre-professional training necessary to enter a mortuary school.

Other Pre-Professional Studies

Students planning to enter other fields will be assigned to advisers who are familiar with requirements in those fields.



College of Natural Resources

Daniel O. Trainer, Dean

Bernard F. Wievel, acting Assistant to the Dean

Mr. Raymond Anderson, Mr. Frederick M. Baumgartner, Mr. Fred W. Baumgartner, Mr. Baxter, Mr. Bowles, Mr. Coble, Mr. Engelhard, Mr. Harpstead, Mr. Ronald Hay, Mr. Heaton, Mr. Hensler, Mr. Jacobi, Mr. King, Mr. Korth, Mr. Lange, Mr. Lee, Mr. Nauman, Mr. Newman, Mr. Roeder, Mr. Shaw, Mr. Spangenberg, Mr. Sylvester.

The University of Wisconsin-Stevens Point offers curricula in natural resources leading to the Bachelor of Science degree in the following disciplines:

Forestry — A degree in forestry can be earned through the completion of one of two possible collateral emphases. An emphasis in forest management is designed to meet the traditional need for competent forest managers in forest product production and wildlife management. An emphasis in forest administration is designed to train a forester in areas of public relations, communication, and business-economics.

Resource Management — A broad area of study with the opportunity for some specialization in specific resource areas. A concentration in soils or forestry courses enables a student to meet federal park management and outdoor recreation or regional planning within this major. Secondary education is also an option within this major.

Soil Science — A curriculum which emphasizes the basic sciences to provide an understanding of soil properties and processes in order to wisely manage land for any purpose. This curriculum meets the requirements for a soil scientist as set forth by the Soil Science Society of America.

Water Resources — Options are offered in water science or water management. The science option emphasizes basic sciences, while the management option allows the student to select areas of special interest in such fields as political science, economics, etc.

Wildlife Management — The wildlife curriculum offers study options in aquatic or terrestrial wildlife ecology. The programs in each of these areas is flexible enough to adequately prepare a student for graduate school or for management positions at the Bachelor of Science level.

Details of these curricula are located in the section COURSES OF INSTRUCTION.

Minor studies are offered in Forestry, Resource Management, and Outdoor Education. A **Master of Science** degree is also offered in Natural Resources.

A six week summer camp session is required of students on completion of their sophomore year for all options except water science. The summer work in Soils, Forestry, Wildlife, and Water is designed to acquaint the student with field practice and work experience prior to the intensive studies of the junior and senior years.

Students majoring in the College of Natural Resources who are also candidates for secondary school teaching will enroll as freshmen in the College of Natural Resources, and apply before their junior year for admission to the Professional Education sequence. They should refer to the pertinent material under the College of Professional Studies.

Advisers

Each student in the College of Natural Resources is assigned to an adviser from the faculty of the discipline in which he intends to major. The adviser will assist him in selecting courses, improving his abilities, making vocational plans, and other aspects of university life. During the student's junior and senior years, his program must be approved by the designated representative.

While the adviser can guide and assist the student, **the student is responsible** for meeting all college and university requirements, rules, and regulations.

Semester Study Load

In order to graduate, a student must earn 120 credits in addition to credits in required physical education.

A normal (average) study load in the College of Natural Resources is 15 academic credits per semester plus one credit of physical education when required. In order to approximate an average of 15 academic credits per semester, students usually register for 12-16 academic credits per semester, plus one credit of physical education each year. This is considered a "normal" study load.

Students who have failed to maintain an average of 15 academic credits per semester should plan to attend summer school or an extra semester.

The dean's signature is not required on senior study list cards unless the load or the courses deviate from the norm.

Curriculum for the Bachelor of Science Degree

- I. **English** — six credits: English 101 and 102, or 103 and 104, or 105 and 106.
- II. **Communication** — two credits: Communication 101, or an equivalent performance course in oral communication.
- III. **One of the following** (all majors in the College of Natural Resources have a mathematics requirement, unless it is waived because of competency attained in high school; **but none has a foreign language requirement**):

- A. **Foreign Language** — eight credits.

The equivalent of one year of college work in one language must be completed before credit will count toward this requirement.

Students will be placed in foreign language courses on the basis of their high school records, or a placement examination, and will not receive credit for courses taken at a lower level than that in which they are placed.

This requirement may be satisfied by two acceptable units of high school work completed in one language. Normally, an acceptable unit is one year's work with a grade of C or better.

- B. **Mathematics** — four credits.

Students will be placed in mathematics courses on the basis of their high school records, and will not receive credit for courses taken at a lower level than that in which they are placed.

This requirement may be satisfied by acceptable work in three units of high school mathematics, excluding general mathematics. Acceptable work is an average grade of C or better in the aggregate of three units.

- IV. **History** — six credits.

All history courses may be applied toward this requirement. The courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.

- V. **Humanities and Social Science** — 18 credits, distributed as follows:

- A. **Humanities** — nine to twelve credits, selected so as to include courses from at least two of the following groups, with a maximum of six credits in any one group:

1. American Civilization.
2. Any literature course, whether in English or another language. The courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.
3. Foreign Language culture or civilization.
4. Philosophy.
5. Any course in the literature, history, philosophy, appreciation, or logic of Art, Communication, Dance, Drama, Music.
6. For students not majoring or minoring in Art, specialized courses in the performance of Art.
7. Religious Studies.

For a listing of specific courses which meet the Humanities requirement, see paragraph V. A., under the curriculum for the Bachelor of Science Degree in the College of Fine Arts.

B. Social Science—six to nine credits, with a maximum of six credits in any one group:

1. Economics.
2. Cultural Geography.
3. Political Science.
4. Psychology.
5. Sociology and Anthropology.

VI. Natural Science. Select either A or B:

A. Eight to ten credits from the following courses:

1. Astronomy 311.
2. Biology 101, 130, 160.
3. Chemistry 101, 103, 105, 106, 115, 116. (See note 3 under Chemistry.)
4. Geography 101, 102, 103.
5. Geology 104, 105.
6. Physics 101, 103, 104, 110, 211, 212.

In any one subject, if the course numbered 101 is used to meet this requirement, the other courses listed for that subject can not be used.

Courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.

B. Three courses selected from the following: Astronomy 100, Biology 100, Chemistry 100, Geography 100, Geology 100, Physics 100.

These courses are designed to increase the student's knowledge, understanding, and appreciation of the science, and its significance in man's attempt to prosper in his environment.

Substitution for the courses listed in this requirement may be accepted with the consent of the Dean of the College of Natural Resources.

VII. Physical Education — four credits.

Students will register in one section of Physical Education 101 in each of their four academic years; they may not repeat the same activity at the same level. Some courses in Dance may be applied toward this requirement. (See the listing under Dance, in the section COURSES OF INSTRUCTION.)

Students transferring from other institutions will meet this requirement on the basis of one credit per year. Thus, students entering as seniors will be required to earn one credit; as juniors, two credits; as sophomores, three credits; and as freshmen, four credits.

Students who believe they have medical or other grounds for exception must present their claims to the Physical Education department after registration.

VIII. Major study and approved electives to total 120 credits in addition to required physical education (total: 124 credits).

IX. At least 40 credits must be earned in courses numbered 300 or above. The dean of the college may, at his discretion, accept a minimum of 32 credits.

NOTE: Candidates for degrees must fill out an APPLICATION FOR GRADUATION at the Registration and Records office not later than the beginning of the semester or summer session in which they expect to complete their work. No degree will be granted unless the candidate receives the approval of the faculty during such semester or summer session.

Teacher Certification

Students who wish to qualify for certification to teach at the secondary school level, with a major offered in the College of Natural Resources, have two options available:

Option I. In the College of Professional Studies, they must complete:

- A. The general requirements for the Bachelor of Science degree in the College of Professional Studies.

- B. The specified major under plan I, II, or III, as listed under major-minor options in secondary education.
- C. The professional education sequence established for certification in secondary education.

Option II. In the College of Natural Resources, they must complete:

- A. The general requirements for the Bachelor of Science degree in the College of Natural Resources.
- *B. The specified major under plan I, II, or III, as listed under major-minor options in secondary education.
- *C. The professional education sequence established for certification in secondary education.

*See the appropriate paragraphs in the section on the College of Professional Studies.



College of Professional Studies

Arthur L. Fritschel, Dean; Gerald F. Johnson, Assistant Dean, School of Communicative Disorders; John E. Bolen, Assistant Dean, School of Education; Agnes A. Jones, Assistant Dean, School of Home Economics.

The College of Professional Studies is composed of the School of Communicative Disorders, the School of Education, and the School of Home Economics. Programs in Medical Technology, Military Science (Reserve Officers Training Corps), and Pulp and Paper (Paper Science and Technology) are also administered in this college. Descriptions of the majors and minors are listed by departments in a later section of the catalog headed COURSES OF INSTRUCTION.

Baccalaureate Degrees

Bachelor of Science degrees are offered in each of the schools:

The School of Communicative Disorders has majors in (1) Communicative Disorders and in (2) Education of the Deaf.

The School of Education, with (1) a major in Elementary Education; and (2) Professional Education courses leading to teacher certification in a number of majors and minors which are listed in a later paragraph. (The Bachelor of Music degree is available for majors in Music, Applied Music, and Music Literature.)

The School of Home Economics, with majors in (1) Home Economics Education, meeting State of Wisconsin requirements for teacher certification; (2) Home Economics in Business; and (3) Food and Nutrition, with options in (a) Dietetics, (b) General Food and Nutrition, (c) Experimental Food and Nutrition, and (d) Food Service Management.

Graduate Degrees

Master of Science and/or **Master of Science in Teaching** degrees are offered in elementary education, elementary education with emphasis in reading, communicative disorders (with emphasis areas in speech pathology, audiology, language disabilities, education of the deaf, and speech and hearing science), and home economics education. A program leading to the **Master of Arts in Teaching** degree is also being offered. For details, see the section on the Graduate College.

Professional Education Program

Students should file formal application for admission to any education curriculum.

Admission to the Professional Education Program or to the School of Education is a prerequisite for the following courses: Education 301, 302, 310, 324, 328 through 340, 380, 381, and 398.

Admission to the Program and Course Work in the School of Education.

- A. Students interested in Secondary Education shall apply for admission to the professional program in the School of Education during their sophomore year.
 1. Each student must secure an application form from the office of the School of Education at which time he will be assigned an adviser for professional program planning in the Educational Foundations and Secondary Education Department.
 2. Each applicant after securing his application will see his adviser in the department of secondary education in the School of Education. The signature of the adviser shall appear on the application form before admission will be granted.
 3. Ultimate responsibility for advising in the major and minor academic areas rests with the chairmen of the major and minor academic areas, and for advising in the professional education courses rests with the chairman of the Educational Foundations and Secondary Education Department of the School of Education.
- B. Students interested in Elementary Education shall apply for admission to the professional program in the School of Education during their freshman year at which time they shall be assigned an adviser in the Elementary Education Department of the School of Education.
- C. All students must meet the following criteria for admission to the professional program in the School of Education.
 1. A grade point ratio of at least 2.00 in freshman English. Exceptions may be made on terms prescribed by the Assistant Dean of the School of Education.
 2. Acceptable performance as determined by the faculty of the School of Communicative Disorders on the freshman speech and hearing screening. If a problem existed and remediation has been

recommended and is in progress, a student may be provisionally admitted.

3. A GPR of at least 2.25 based on credits earned at this university.
- D. The School of Education shall secure a report for advising purposes for each student from the Office of Student Affairs.
- E. A student who has been provisionally admitted shall consult with the Asst. Dean of the School of Education and the chairman of the department in which the student will be doing student teaching.
- F. Students who are denied admission to the professional education program for other than academic reasons may file a special petition with the Teacher Education Review Committee for further consideration.

Transfer Students:

Transfer students and those who have completed a baccalaureate degree from an accredited institution (in meeting the conditions of paragraph C, above) will be conditionally admitted to the Professional Education Program in the School of Education for their first semester, if they satisfy the following requirements:

1. Possess a minimum grade point ratio of 2.25.
2. Possess a grade of C or better in freshman English.

Full admission to the Professional Education Program will be granted when the other requirements have been satisfied. Students who have the baccalaureate degree will need to secure a letter of recommendation from the department of their academic major in the institution from which they graduated.

Students who do not satisfy the above requirements will take the number of credits necessary at this institution to satisfy the above requirements before they may enroll in courses in the Professional Education Program.

Curriculum for the Bachelor of Science Degree (Except for Elementary Education)

- I. **English** — six credits: English 101 and 102, or 103 and 104, or 105 and 106.
- II. **Communication** — two credits: Communication 101 or an equivalent performance course in oral communication.
- III. One of the following:

A. Foreign Language — eight credits.

The equivalent of one year of college work in one language must be completed before credits will count toward this requirement.

Students will be placed in foreign language courses on the basis of their high school records, or a placement examination, and will not receive credit for courses taken at a lower level than that in which they are placed.

This requirement may be satisfied by two acceptable units of high school work completed in one language. Normally, an acceptable unit is one year's work with a grade of C or better.

B. Mathematics — four credits.

Students will be placed in mathematics courses on the basis of their high school records, and will not receive credit for courses taken at a lower level than that in which they are placed.

This requirement may be satisfied by acceptable work in three units of high school mathematics, excluding general mathematics. Acceptable work is an average grade of C or better in the aggregate of three units.

IV. History — six credits.

All history courses may be applied toward this requirement. The courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.

Students qualifying for certification to teach at the secondary school level will meet this requirement with six credits in American history. All American History courses may be applied toward this requirement.

(The Bachelor of Music degree, which is described in the section on the COLLEGE OF FINE ARTS, requires History 105 and 106, or 107 and 108, or 211 and 212.)

V. Humanities and Social Science — 18 credits, distributed as follows:

A. Humanities — nine to twelve credits, selected so as to include courses from at least two of the following groups, with a maximum of six credits in any one group:

1. American Civilization.
2. Any literature course, whether in English or another language.

The courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.

3. Foreign language culture or civilization.
4. Philosophy.
5. Any course in the literature, history, philosophy, appreciation, or logic of Art, Communication, Dance, Drama, Music.
6. For students not majoring or minoring in Art, specialized courses in the performance of Art.
7. Religious Studies.

For a listing of specific courses which meet the Humanities requirement, see paragraph V. A., under the curriculum for the Bachelor of Science Degree in the College of Fine Arts.

B. Social Science — six to nine credits, with a maximum of six credits in any one group:

- *1. Economics.
2. Cultural Geography.
3. Natural Resources 370.
4. Political Science.
- *5. Psychology.
- **6. Sociology and Anthropology.

VI. Natural Science. Select either A or B:

A. Eight to ten credits from the following courses:

1. Astronomy 311.
2. Biology 101, 130, 160.
3. Chemistry 101, 103, 105, 106, 115, 116. (See note 3 under Chemistry.)
4. Geography 101, 102, 103.
5. Geology 104, 105.
6. Physics 101, 103, 104, 110, 211, 212.

In any one subject, if the course numbered 101 is used to meet this requirement, the other courses listed for that subject can not be used.

Courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.

*Required for Home Economics majors.

**Recommended for Home Economics majors.

- B. Three courses selected from the following: Astronomy 100, Biology 100, Chemistry 100, Geography 100, Geology 100, Physics 100.

These courses are designed to increase the student's knowledge, understanding, and appreciation of the science, and its significance in man's attempt to prosper in his environment.

Substitution for the courses listed in this requirement may be accepted with the consent of the Dean of the College of Professional Studies.

VII. Physical Education — four credits.

Students will register in one section of Physical Education 101 in each of their four academic years; they may not repeat the same activity at the same level. Some courses in Dance may be applied toward this requirement. (See the listing under Dance, in the section COURSES OF INSTRUCTION.)

Students transferring from other institutions will meet this requirement on the basis of one credit per year. Thus, students entering as seniors will be required to earn one credit; as juniors, two credits; as sophomores, three credits; and as freshmen, four credits.

Students who believe they have medical or other grounds for exception must present their claims to the Physical Education department after registration.

VIII. Major and minor studies, as required.

(See statement below regarding major-minor options in secondary education.)

- IX. The required professional education sequence** for those seeking teacher certification at the secondary school level includes 20 credits in the following courses: Education 330-340 (two credits in the major field; two credits in the minor field, if required); Education 380, 381, 398. (Psychology 200 is a prerequisite for Education 381.) Students not having a minor will elect at least two credits of other education courses.

- X. Approved electives** to total 120 credits in addition to required physical education (total: 124 credits).

- XI. At least 40 credits** must be earned in courses numbered 300 or above. The dean of the college may, at his discretion, accept a minimum of 32 credits.

NOTE: Candidates for degrees must fill out an APPLICATION FOR GRADUATION at the Registration and Records office not later than the beginning of the semester or summer session in which they expect to complete their work. No degree will be granted unless the candidate receives the approval of the faculty during such semester or summer session.

Teacher Certification

Students who wish to qualify for certification to teach at the secondary school level have two options available:

Option I. In the College of Professional Studies, they must complete the curriculum described above.

Option II. If they have a major which is offered in another college, they may meet graduation requirements by completing:

- A. The general requirements for the Bachelor of Arts, Bachelor of Music, or Bachelor of Science degree in the college offering the major.
- B. The specified major under plan I, II, or III, as listed below under major-minor options in secondary education.
- C. The professional education sequence established for certification in secondary education.

The successful completion of the basic degree requirements, major-minor requirements, and the professional education sequence described above enable a graduating senior to apply for an initial three-year **license to teach** in Wisconsin, in accordance with the certification requirements set up by the State Department of Public Instruction. The secondary education curriculum prepares students for teaching positions in grades seven through twelve in the junior and/or senior high schools. Applications for the license should be filed with the Registration and Records office.

Major-Minor Options in Secondary Education

Students will meet one of the following options:

Plan I. One approved major of at least 34 credits and a minor of at least 22 credits. In a number of instances, the department requirements for a major or a minor in this university exceed the number of credits required for certification.

Plan II. Two approved majors of at least 34 credits.

Plan III. One college- or university-approved broad-field or comprehensive major of at least 54 credits. The broad-field majors are offered only in art, communicative disorders, general science, home economics, music, social science, and women's physical education.

Requirements for the majors and minors are listed under the course descriptions for each department. Students working for teacher certification should note that in some cases the teaching major differs from the major for the student not seeking teacher certification.

Students may major and receive teacher certification in any of the following: art, biology, business education, chemistry, communication, communication and drama, communicative disorders, economics, education of the deaf, English, French, general science, geography, German, history, home economics, mathematics, music, natural resources management, physics, political science, psychology, social science, sociology and anthropology, Spanish, and women's physical education. Students may also major in American civilization if they are also earning a major and a minor in two of the other acceptable academic majors, or if they're earning the broad-field major in social science.

Minors may be chosen for teacher certification in men's physical education, and in any of the major fields listed above, except business education, communicative disorders, drama, education of the deaf, general science, home economics, music, and social science.

A department may refuse to accept a student for major or minor study if the student's general academic record is not satisfactory to that department. The department is also empowered to disapprove a student's retention as a major or minor if his achievement does not continue to meet the standards of that department.

NOTE: Students who major or minor in any of the social sciences (economics, geography, history, political science, and sociology and anthropology) are required by statute to take Economics 200 or 323. Students who major or minor in any of the social sciences or in any of the sciences (biology, chemistry, and physics) are required by statute to take Natural Resources 370. (Substitutes may be approved by the Assistant Dean of the School of Education.)

Curriculum for the Bachelor of Science Degree in Elementary Education

I. **English** — six credits: English 101 and 102, or 103 and 104, or 105 and 106.

II. Communication — two credits: Communication 101, or an equivalent performance course in oral communication.

III. Foreign Language — eight credits; or **Mathematics** — four credits.

The completion of Mathematics 229 and 239 fulfill the general degree requirements in mathematics in the Elementary Education Curriculum.

IV. American History — six credits: History 211 and 212.

V. A. Humanities — nine credits:

1. English 205 and 206, or 211 and 212, or 213 and 214.
2. Music 100.

B. Social Science — fourteen or fifteen credits:

1. Cultural or regional geography — two or three credits.
2. Natural Resources 370 (Intermediate-Upper Elementary, only).
3. Psychology 200 and 260.
4. Electives to total 14 or 15 credits.

VI. Natural Science — thirteen to fifteen credits:

Any three of the following: Biology 101; Chemistry 101 or 103; Geography 101; Physics 101.

The student is advised to take college courses in areas not covered in his high school program.

VII. Physical Education.

Students normally register in one section of Physical Education 101 in each of their four academic years; they may not repeat the same activity at the same level.

In the Elementary Education Curriculum, Physical Education 231 and 232 may each be substituted for two credits of Physical Education 101. If both Physical Education 231 and 232 are taken, they will meet all Physical Education requirements.

Some courses in Dance may be applied toward this requirement. (See the listing under Dance, in the section COURSES OF INSTRUCTION.)

Students transferring from other institutions normally meet this requirement on the basis of one credit per year. Thus, students enter-

ing as seniors are required to earn one credit; as juniors, two credits; as sophomores, three credits; and as freshmen, four credits.

Students who believe they have medical or other grounds for exception must present their claims to the Physical Education department after registration.

VIII. Related Subject Matter — twelve credits: Art 101 and 102; Biology 280; English 275.

IX. Professional Education. One of the following:

A. Primary Education (Grades 1-3): Education 302, 303, 322, 381, 398; Music 381; Physical Education 231.

B. Kindergarten-Primary Education (Grades K-3): Add Education 301 to the listing under Primary Education. Part of the student teaching will be done in Kindergarten.

C. Intermediate-Upper Elementary Education (Grades 4-8): Education 310, 311, 322, 381, 383, 398; Learning Resources 331; Music 381; Physical Education 232.

X. Approved electives to total 120 credits in addition to required physical education.

Students should use some of their elective credits as an area of concentration, or a minor in some field of study if certification for junior high school teaching is desired.

XI. At least 40 credits must be earned in courses numbered 300 or above. The dean of the college may, at his discretion, accept a minimum of 32 credits.

NOTE: Candidates for degrees must fill out an APPLICATION FOR GRADUATION at the Registration and Records office not later than the beginning of the semester or summer session in which they expect to complete their work. No degree will be granted unless the candidate receives the approval of the faculty during such semester or summer session. Application for a teaching license should also be filed at the Registration and Records office.

Early Childhood Education

Students wishing to major in **Early Childhood Education** have two options available—Elementary Education or Home Economics. Both programs follow a common pattern of courses leading to certification for nursery

school and kindergarten. Graduates of this program **will not** be certified for any level above kindergarten. The Home Economics option emphasizes parent education. There is also the possibility that the student may obtain certification for teaching in vocational programs by following the vocational certification option.

Students wishing to prepare for kindergarten teaching may do so in one of two ways: (1) Majoring in Early Childhood Education, either Elementary Education or Home Economics option. This program leads to Nursery School and Kindergarten certification only. (2) Majoring in Elementary Education and taking the kindergarten option listed on page 102. This option would certify the graduate for grades K-8.

I. General Degree Requirements

Students will follow the general degree requirements which became effective on June 1, 1970, as printed on page 65 of the current catalog.

II. Major Requirements

Educ. 242, 301, 381, 398; Psychology 200; Home Ec. 101 **OR** Art 101; Home Ec. 261 **OR** Psychology 260; Home Ec. 351 **OR** 353; Home Ec. 361 **OR** Education 241.

III. Required Support Courses

(Home Economics option elect 9 credits from the following:)

(Elementary Education option elect 12 credits from the following:)

Communicative Disorders 266, 480; Education 351, 353, Physical Education 231.

Completion of I, II, and III meets Wisconsin certification requirements for Nursery-Kindergarten (N-K). Students choose either IV or V, below.

IV. Elementary Education Option

Education 370. Elective options:

- a. Completion of a minor in one of the following: art, biology, dance, drama, music, physical education, psychology, sociology and anthropology.
- b. Completion of a concentration of 15 credits in one of the minor fields listed above, with no more than 9 credits in any one field.

V. Home Economics Option (21 credits)

Home Ec. 104, 105, 211, 364, 366, 371, 467; P.E. 252.

Vocational Certification

The student may wish to obtain certification for teaching in vocational programs. Completion of the above course of study and one year of 2,000 hours of work experience in the area of employment are required

for a Provisional Certificate. Academic requirements for a Standard Certification in vocational education may be fulfilled by taking the following additional courses: Home Ec. 394, 395, a course in evaluation, such as Educ. 383 or Home Ec. 726. (Note: The Standard Certificate also requires 3 years of successful teaching experience and 4,000 hours of work experience in the specialized field.)

Curriculum in Elementary Education for County College Graduates

Graduates of the regular state approved two-year county teachers college course may be tentatively admitted to junior standing in the School of Education upon satisfactory evaluation of their records by the Dean of the College of Professional Studies. Students transferring with less than 60 acceptable credits will be placed on probation for one year and must earn a grade point ratio of 2.25 or higher before filing an application for formal admission. Students may not take education courses until they have been formally admitted to the School of Education.

Past experience has indicated that most county college transfer students will need to take the following courses in order to meet degree and certification requirements:

1. Communication 101.
2. Five credits of Education 398.
3. Humanities — six credits, selected from:
 - a. American Civilization.
 - b. Any literature course, whether in English or another language. The courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.
 - c. Foreign Language culture or civilization.
 - d. Philosophy.
 - e. Any course in the literature, history, philosophy, appreciation, or logic of Art, Communication, Dance, Drama, Music.
 - f. For students not majoring or minoring in Art, specialized courses in the performance of Art.

For a listing of specific courses which meet the Humanities requirement, see paragraph V. A., under the curriculum for the Bachelor of Science Degree in the College of Fine Arts.

4. Mathematics 310.
5. Physical Education — two credits.
6. Science: Chemistry 101 or 103; and Physics 101.

Students desiring the degree in either primary or intermediate-upper elementary education will take additional required courses appropriate

to these areas. These requirements will be indicated on the students' planning sheets.

7. Electives to total 62 credits beyond the county teachers college course. (A total of 64 credits is required of those who began their county college work before 1954.)

Since the student must earn 40 credits in courses numbered 300 or above, most electives should be in that category. The dean of the college may, at his discretion, accept a minimum of 32 credits in junior-senior courses.

Special Education

At the present time there are special education programs in Communicative Disorders, and in Education of the Deaf. Students who are interested in these majors may apply to the Assistant Dean of the School of Communicative Disorders.

A. Education Certification in Communicative Disorders. The Communicative Disorders sequence allows the student to work in a public school setting with students of all ages, from pre-school through high school, and leads to teacher certification upon completion of the Master's degree. For further description of this major, see the departmental listing in the section COURSES OF INSTRUCTION.

B. Certification in Education of the Deaf. The curriculum in Education of the Deaf prepares the student for classroom teaching of deaf children. Upon successful completion of the program, the student will qualify for certification in education of the deaf, and will be prepared with the foundation for graduate study in the area. For further information about this major, see the requirements under Education of the Deaf in the section COURSES OF INSTRUCTION.

Student Teaching

This final step in the sequence of teacher preparation is of extreme importance since it involves experience in an actual classroom situation. At least ten credits of student teaching (Education 398) are required for graduation and recommendation for teacher certification. The organization of the overall program is the responsibility of the Director of Student Teaching, who works closely with student teachers, members of the university staff, and administrators and teachers in the cooperating schools.

A student should not plan to do student teaching in his home town or in a school from which he has graduated or in a school district in which a relative is currently employed or serves as a school board member.

Transfer students must do nine credits of work on this campus previous to the semester in which they do their student teaching.

Some school districts require student teachers to be insured against liability and suit. Student teachers are encouraged to join the S.E.A. to take advantage of the liability clause.

Student teachers must have a medical statement indicating that they are free from T.B.

The university attempts to place student teachers in the locations of their choice. However, the university reserves the right to make the final assignment, basing the decision upon such things as the availability of qualified public school cooperating teachers.

Student Teaching — Elementary Education

The student should apply at the office of Student Teaching for admission to student teaching.

Requirements for admission to student teaching at the elementary level are:

1. Completion of application forms for student teaching.
2. Admission to the School of Education.
3. A cumulative grade point ratio of 2.25 or better for student teaching and of 2.50 for internship.
4. Completion of techniques courses in elementary education.
5. Recommendation from the Chairman of the Department of Elementary Education.
6. Recommendation from the Associate Dean of Students.
7. Recommendation on the health form required by the State of Wisconsin for all certified teachers, from a physician of the student's choice, based on an examination within the last three years.
8. Submission of completed application form no later than March 1 of the academic year preceding the one in which the student teaching will be done.

Elementary education student teachers will have completed Elementary Education methods courses prior to student teaching. Students will enroll in Education 398 (Student Teaching) in the second semester of the junior year or the first or second semester of the senior year. In the Elementary

Education major, students enroll for 13 credits of Education 398. The assignment of student teaching usually includes work at two grade levels, e.g., nine weeks in grade 4, and nine weeks in grade 5. Students in the Kindergarten-Primary program must teach at the kindergarten level for part of the assignment. The typical student teaching program is for a complete semester on a full-day basis. Elementary education students are invited to apply for the intern program as described later in this section.

All students in elementary education are to attend orientation meetings held during the semester prior to student teaching. Information relative to requirements for student teaching, location, and levels of teaching is provided in the orientation programs.

Student Teaching — Secondary Education

The student should apply at the office of Student Teaching for admission to student teaching.

Requirements for admission to student teaching at the secondary level are:

1. Completion of application forms for student teaching.
2. Admission to the Professional Education Program.
3. A cumulative grade point ratio of 2.25 or better for student teaching and of 2.50 for internship.
4. A grade point ratio of 2.25 in the major and minor fields, and of 2.50 in the major and minor fields for internship.
5. Recommendation from the chairmen of the student's major and minor departments.
6. Recommendation from the Associate Dean of Students.
7. Completion of the techniques courses in the area(s) to be taught.
8. Recommendation on the health form required by the State of Wisconsin for all certified teachers, from a physician of the student's choice, based on an examination within the last three years.
9. Submission of completed application form no later than March 1 of the academic year preceding the one in which student teaching will be done.

Student Teaching Plans

The university offers several plans in order to provide realistic student teaching experiences. Each pattern calls for the completion of specific courses of study, and it is imperative that each student bear in mind the sequence of courses, etc., in the careful long-range planning of his overall program of teacher preparation.

Plan A. (Block)

1. The student is enrolled in the “professional semester” or “block” program of student teaching. He will have completed Education 380 and one other course in professional education.
2. During the second semester of the junior year or during the senior year the student will take 15 hours of work in professional education.
 - A. The first segment of the semester (approximately seven weeks) is devoted to Education Psychology (Education 381) and a course in the techniques of teaching. This work is taken on campus. Inasmuch as not all techniques courses are offered on the “block” program, it is imperative that the student plan his course sequence very carefully.
 - B. The remainder of the semester (approximately ten weeks) is spent in student teaching in an approved cooperating school on a full-time basis. This normally means that the student will actually live in the community and attend faculty meetings, extra-curricular activities, etc. University coordinators will check the progress of the student teacher and several special seminars will be held on campus to discuss the student teaching experience. At the end of this period, the cooperating teacher and the university coordinator will provide an evaluation of the work of the student.
 - C. It is the student teacher’s responsibility to arrange for his own housing and meals.
 - D. The student teacher is required to return to the campus during the final week of the semester to confer with the university instructors and supervisors in order to gain further insight into the actual problems of teaching.

Plan B. (Teaching Center)

Plan B differs from Plan A in that:

1. The student must have completed a different sequence of course work

in professional education prior to the start of this pattern.

2. During either semester of the senior year the student teacher will ordinarily enroll for 16 hours of work in professional education.
 - A. Student Teaching (Education 398) and the other required courses (Education 380 and 381) are taken in a designated geographic area which serves as a "teaching center" for student teachers, cooperating schools, and university personnel.
 - B. This "teaching center" makes it possible to blend theory and practice throughout the entire semester and affords expanded opportunity for observational and teaching experiences.
 - C. Plans are being developed to bring about an even more closely articulated program of experimentation and in-service opportunity for both the student teachers and the professional personnel of the school districts participating in the center program.
 - D. Students who elect this plan are required to live in the teaching center area during the entire semester.

Plan C. (Internship)

1. A student who is planning to teach at either the elementary or secondary level may enroll as a "teaching intern."
2. The required courses in professional education must be completed before the student begins the teacher-internship. In secondary education, he must also have completed at least three-fourths of the work toward the major, and all of the minor if he wishes to teach in it.
3. The intern is a paid member of a public school staff who spends an entire semester in a school system. During this time he is involved in experiences covering the entire range and variety of a teacher's duties, both in and out of the classroom.
4. Other considerations:
 - A. A student entering the internship program should have a cumulative grade point ratio of 2.50 or better, and a grade point ratio of 2.50 or better in the major and in the minor, if he wishes to teach in his minor.
 - B. No on-campus work may be carried during the semester.
 - C. A summer conference may be required.

- D. The student must apply for a special intern-teaching license which costs \$5.00.
- E. The student may be assigned to either the fall or spring semester.
- F. The intern must report for the orientation program that is organized by the cooperating school system.
- G. Inasmuch as only ten credits are earned during the internship semester, all prospective interns may be required to attend the university for an extra semester or summer session in order to prevent an overload of course work during any of the eight regular semesters.
- H. Students considering the internship plan should contact the Student Teaching office as soon as possible. Internship assignments for the full school year are usually made during February for the following year, and it is therefore necessary for the student to have his application completed by that time.

The Student Education Association

The Student Education Association, with state and national affiliation, is a preprofessional group for students interested in teaching. The organization is open to **all** students with this interest, regardless of admission to the School of Education. Programs usually include topics not covered in education courses. The membership provides educational journals, student teaching insurance, and admission to the WEA's annual teachers' convention as well as other benefits.

Teacher Corps Program

The Wisconsin Indian Teacher Corps Program at the University of Wisconsin-Stevens Point is a two-year federally funded project (1971-73) involving twenty-one interns in elementary education. The purpose of the program is to: (a) develop a community-based program in elementary schools, (b) initiate multi-unit organization and Individually-Guided-Education in the elementary schools in the program and (c) develop a competency-based teacher education program at the university.

The project, one of 87 Teacher Corps programs throughout the country, involves the local communities and school systems of Ashland, Bayfield, Hayward and Webster. Interns participate in student teaching, community activities and academic course work in their respective communities. Information regarding the Teacher Corps program may be obtained in the office of the Director, Dr. Terrence J. Snowden.

The Associate Degree

General Requirements for the Associate Degree

- I. **English** — six credits: English 101 and 102, or 103 and 104, or 105 and 106.
- II. **Communication** — two credits: Communication 101, or an equivalent performance course in oral communication.
- III. One of the following:

- A. **Foreign Language** — eight credits.

The equivalent of one year of college work in one language must be completed before credit will count toward this requirement.

Students will be placed in foreign language courses on the basis of their high school records, or a placement examination, and will not receive credit for courses taken at a lower level than that in which they are placed.

This requirement may be satisfied by two acceptable units of high school work completed in one language. Normally, an acceptable unit is one year's work with a grade of C or better.

- B. **Mathematics** — four credits.

Students will be placed in mathematics courses on the basis of their high school records, and will not receive credit for courses taken at a lower level than that in which they are placed.

This requirement may be satisfied by acceptable work in three units of high school mathematics, excluding general mathematics. Acceptable work is an average grade of C or better in the aggregate of three units.

- IV. **History, Humanities, and Social Science** — 12 credits, selected so as to include courses from at least two of the following groups, with a maximum of six credits in any one group:

- A. **History.** All history courses may be applied toward this requirement. The courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.

B. Humanities — courses from the following:

1. American Civilization.
2. Any literature course, whether in English or another language. The courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.
3. Foreign Language culture or civilization.
4. Philosophy.
5. Any course in the literature, history, philosophy, appreciation, or logic of Art, Communication, Dance, Drama, Music.
6. For students not majoring or minoring in Art, specialized courses in the performance of Art.
7. Religious Studies.

For a listing of specific courses which meet the Humanities requirement, see paragraph V. A., under the curriculum for the Bachelor of Science Degree in the College of Fine Arts.

C. Social Science — courses from the following:

1. Economics.
2. Cultural geography.
3. Natural Resources 170.
4. Political Science.
5. Psychology.
6. Sociology and Anthropology.

V. Natural Science. Select either A or B:

A. Five or six credits from the following courses:

1. Biology 101, 130, 160.
2. Chemistry 101, 103, 105, 106, 114, 115, 116. (See note 3 under Chemistry.)
3. Geography 101, 102, 103.
4. Geology 104, 105.
5. Physics 101, 103, 104, 110, 211, 212.

In any one subject, either the course numbered 101 or course(s) numbered above 101 will be counted toward this requirement, but not both.

Courses need not be taken in sequence, nor need a sequence be completed, except that stated prerequisites must be met.

B. Two courses selected from the following: Astronomy 100, Biology 100, Chemistry 100, Geography 100, Geology 100, Physics 100.

These courses are designed to increase the student's knowledge, understanding, and appreciation of the science, and its significance in man's attempt to prosper in his environment.

Substitution for the courses listed in this requirement may be accepted with the consent of the Assistant Chancellor for Academic Affairs.

VI. Physical Education — two credits.

Students will register in one section of Physical Education 101 in each of their two academic years; they may not repeat the same activity at the same level. Certain courses in Dance may be applied toward this requirement. (See the listing under Dance, in the section COURSES OF INSTRUCTION.)

Students who believe they have medical or other grounds for exception must present their claims to the Physical Education department after registration.

VII. Additional approved work to total 62 credits.

A minimum of 30 credits, including the last 15, must be earned at the University of Wisconsin-Stevens Point or at its branch campus, the University of Wisconsin Center—Medford.

A cumulative grade point ratio of 2.00 is required for granting of the Associate Degree.

A candidate for the degree shall fill out an application for the Associate Degree at the Registration and Records office. Ordinarily such application shall be made not later than the beginning of the semester or summer session in which the student expects to complete the work.

A student who does not apply for the degree when first eligible may make application up to two years after the required work is completed.

Work taken beginning in June, 1970, may be credited toward the degree. The first degrees will be awarded May 14, 1972.

Eligibility for the degree will be checked by the Registrar's Office and degrees will be approved by the Assistant Chancellor for Academic Affairs and by the Chancellor.



The Graduate College

Winthrop C. Difford, Dean

Graduate work was implemented at the University of Wisconsin-Stevens Point in the summer of 1960. It began as a cooperative program with the nine then State Colleges and the University of Wisconsin.

In 1962, the Wisconsin State College System, at the request of the Coordinating Council for Higher Education, initiated plans to grant the master's degree for classroom teachers on each of the campuses. The first master's degrees were conferred at Wisconsin State University-Stevens Point in the summer of 1964.

UW-SP implemented a full-time academic year program in the fall of 1966. Graduate courses and a number of graduate-undergraduate combination courses afford students ample opportunity to complete their program in one academic year and one summer session.

Specific requirements for degrees are established by each department which offers a graduate degree.

The graduate program has been granted full accreditation by the North Central Association of Colleges and Secondary Schools.

The Graduate Council is the working committee of the Graduate Faculty. It is composed of elective members and the Chancellor of the university, the Assistant Chancellor for Academic Affairs, and the Dean of the Graduate College who are ex-officio members. The elective members are the Chairman of the Graduate Faculty who is elected at large from the Graduate Faculty, six members from the College of Letters and Science, three members from the College of Professional Studies, two members from the College of Fine Arts, and one member from the College of Natural Resources. The College representatives are elected from and by the graduate faculty membership of their respective colleges.

Final authority is vested in the Graduate Faculty for the approval of graduate courses, the determination of policy, and the establishment of rules and regulations governing graduate work.

Admission

Application for admission to the Graduate College must be filed on standard forms provided by the Graduate College office. Transcripts of undergraduate and all graduate work attempted, even if not completed, must be mailed directly to the dean by the institution formerly attended, and must bear the official seal of the institution.

Baccalaureate graduates of the University of Wisconsin-Stevens Point need not furnish transcripts of their records here. Transcripts of post-graduate and graduate work taken elsewhere are required even though it may not be applicable toward the next degree.

The following **admission requirements** must be met:

1. A baccalaureate degree from an accredited institution.
2. Satisfactory mental and physical health.
3. Acceptance by the department or college in which graduate specialization is to be undertaken.
4. For admission **in good standing**, a cumulative grade point ratio of 2.75 in undergraduate courses, or a 2.90 grade point ratio in the last half of the undergraduate program. (A = 4 points.)
5. For admission **on probation**, a cumulative grade point ratio of 2.25-2.74 in undergraduate courses; or not less than six credits of graduate course work at an accredited school with a grade of B or better in each course. This credit may not be applied to a master's degree.
6. For the MST degree, certification for teaching in Wisconsin or another state.
7. Such other requirements as may be prescribed by the Graduate Council. These requirements may include standardized testing.

A student who does not meet all of the standards listed above may be admitted on a provisional basis by the Dean of the Graduate College.

A decision regarding admission may be appealed by submitting a letter to the Graduate Council requesting reconsideration.

Students who do not expect to pursue a degree, but who are otherwise qualified, may be admitted with the approval of the Dean of the Graduate College.

When admission standards have been met, a Permit to Register will be granted by the Dean of the Graduate College.

Assignment of an adviser is made by the department chairman as soon as practicable after the student has been admitted.

Transfer of Credit

Students who have made satisfactory records in graduate courses at other

graduate schools may be granted credit for those courses within the following limits:

- (a) Nine credits may be accepted from other institutions (extension credit included in this total must not exceed six credits).
- (b) Credits in courses in which the grade earned was less than B will not be accepted.
- (c) Credits in correspondence courses will not be accepted.

In all cases the credits submitted for transfer must be earned at an accredited institution and be acceptable as graduate credit at that institution. Furthermore, the credit must be applicable to the student's proposed program. Credits submitted for transfer must be approved by the chairman of the student's major department and by the Dean of the Graduate College.

Registration

In order to register for a graduate course, the student must have a Permit to Register. (See the section on ADMISSION above.)

New students are advised to file applications and begin planning their programs three months prior to the term for which they are registering. The Department Chairmen, or advisers assigned by them, will assist the students in planning their programs.

Continuing students will follow registration procedures as developed by the Registrar and published in the Time Table. Registration procedures for Saturday and evening only classes are outlined in instructions published by the Director of Extended Services.

The university reserves the right to limit class size, or to cancel classes when the number of registrations is too small to warrant offering the course.

The maximum study load for a graduate student is 15 semester hours in each semester during the academic year.

Academic Standards

All students are expected to maintain a B average to remain in the program. Students admitted in full status who fail to earn a B average will be placed on probation. Failure to raise the overall average to B or better during the next nine credits will drop the student from the program.

Students admitted on probation must earn a B average during their first

six to twelve credits to remain in the program. Upon earning the B average, the probationary status will be removed. No credit shall be granted for a grade lower than C, but the grade shall be counted in figuring the student's average.

Any graduate student may appeal a decision regarding retention in the program by submitting a letter to the Graduate Council requesting reconsideration.

A grade of incomplete must be removed before the end of the next semester or summer session in which the student is registered; if not, it automatically becomes a failure (thesis courses excepted).

A graduate student may not take more than six credits beyond the minimum requirement for the purpose of raising his grade point ratio.

Admission to Candidacy for the Master's Degree

Admission to the Graduate College does not automatically admit a student to candidacy for a specific degree program. To be eligible for **candidacy** in the Master's degree program, the following additional provisions must be met:

1. He must have earned not less than nine credits of graduate work in residence at UW-SP.
2. Deficiencies, if any, must have been removed, and all subject matter prerequisites in the area of specialization must have been completed.
3. He must have a B average in all graduate work.
4. He must have demonstrated fitness for candidacy on such written or oral examinations as may be prescribed by the Graduate Council. The Miller Analogies Test should be taken prior to applying for candidacy, although the test is not used for admission purposes.
5. Applications for Admission to Candidacy must be filed in the Graduate Office after the completion of nine credits, and must include a planned program for the completion of the work. Applications must be approved by the student's adviser before being approved by the Dean of the Graduate College.

Application for the Master's Degree

Candidates for degrees must fill out an APPLICATION FOR GRADUATION at the Registration and Records office not later than the beginning of the

semester or summer session in which they expect to complete their work. No degree will be granted unless the candidate receives the approval of the Graduate Faculty during such semester or summer session. X

General Requirements for all Master's Degrees

1. **A minimum of thirty credits** in graduate courses is required, of which at least fifteen must be earned in residence at the University of Wisconsin-Stevens Point.
2. **A minimum of one-half** of the total number of credits must be taken in courses open to graduate students only (courses numbered 700 or over).

In addition, for the MAT and MST, one-half of the credits in the area of specialization must be taken in courses open to graduate students only (courses numbered 700 or above).

3. **At least a B average** must be achieved in all work taken to satisfy the degree requirements. A grade of C will be accepted in no more than eight of the thirty credits required (nine of the forty-four, for the MAT).
4. **Completion of a thesis** is optional. The student's choice of adviser and of a thesis topic must be approved by his department. The completed thesis must be approved by the thesis adviser and by a thesis committee of at least two other members of the Graduate Faculty appointed by the department. The thesis adviser shall be the chairman of the committee. Any member of the Graduate Faculty may serve on the committee. The Dean of the Graduate College serves as an ex-officio member of all thesis committees. A bound copy of the thesis must be filed in the library at least ten days before graduation.
5. **A comprehensive examination** is required of all students, and is administered in April, November, and early July each year. It is based on the student's course work. When a thesis is offered in partial fulfillment of degree requirements, the comprehensive exam may be, at least in part, an **oral defense of the thesis**. A student must complete arrangements for the examination with his academic adviser at least 30 days before the date of the examination.
6. **All credit** accepted toward a degree, including transfer credit, must have been **earned within a seven-year period**. No extensions will be granted except for unusual health conditions, fulfillment of military obligations, or such other extenuating circumstances as the Graduate Council may recognize.

Specific requirements for the various degrees are listed in the sections immediately following.

The Master of Arts in Teaching (MAT) Degree

- I. **The general requirements** for the master's degrees must be met, as specified above.
- II. **In addition to the minimum of thirty credits** in graduate courses, the MAT degree requires fourteen credits in the Professional Sequence.
 - A. **Area of Specialization** — eighteen to twenty-one credits in one of the following:

Biology; Communication (may include electives in Drama); English; History; Social Studies (six to nine credits in one of the following disciplines, and the remainder in at least two of the others: Economics, cultural Geography, History, Natural Resources, Political Science, and Sociology).
 - B. **Professional Education** — nine to twelve credits:

Education 702, 760 (six credits); and three to six credits from Education 583, 701, 721, 751.
 - C. **Professional Sequence** — fourteen credits:

Education 761, 762.

Additional credits may be required to correct deficiencies.

Wisconsin teacher certification regulations require that teachers of the social studies have a course in both cooperatives and conservation. Teachers in any of the science areas must have a course in conservation.

- III. **Thesis option** — select either A or B:
 - A. **A thesis**, carrying two to six credits for research in an area of specialization. (See item 4 under general requirements.)
 - B. **A research paper**, carrying no credit, will be required if a thesis is not elected. Growing out of the **MAT Seminar, Secondary**, this paper must be approved by the seminar instructor, and filed in the department of the area of specialization.

The Master of Music Education (MMEd) Degree

- I. **The general requirements** for the master's degrees must be met, as specified above.
- II. **The minimum of thirty credits** in graduate courses is distributed as follows:

A. Major Applied Music — four credits.

B. Music Theory — six credits.

A placement examination is required. Students found not qualified will take Music 711, and one other graduate course in music theory. Qualified students will take Music 712, and one other graduate course in music theory.

C. Music Literature/History — six credits.

A placement examination is required. Students found not qualified will take Music 720, and one other graduate course in music literature/history. Qualified students may select any graduate courses in music literature/history, except Music 720.

D. Music Education — six credits.

Music 786, 787.

E. Thesis option — select one of the following:

1. Thesis — four credits. (See item 4 under general requirements.)
Electives — four credits.
2. Seminar paper, no credit, with oral examination by a faculty committee. Electives — eight credits.

III. Performance examination.

A jury examination in performance is required as a part of a general evaluation of the student's work. This examination may be taken at any time after completion of the requirement in the applied major field.

IV. Teacher certification — candidates for the MMed degree must meet state requirements for teacher certification.

The Master of Science (MS) Degree — Communicative Disorders

I. The general requirements for the master's degrees must be met, as specified above.

II. The minimum of thirty credits in graduate courses is distributed as follows:

A. Required Core Courses — nine to eleven credits:

Communicative Disorders 695 (or its equivalent for full-time, on-campus students), 710, 711, 767.

B. Area of Specialization — twelve to 13 credits in courses numbered 700 or above, in one of the following emphasis areas:

1. **Audiology:** Communicative Disorders 551, 552, 553, 554, 750, 755, 760, 765, 795.

2. **Language Disabilities:** Communicative Disorders 562, 732, 733, 734, 740, 795.

3. **Speech Pathology:** Communicative Disorders 560, 561, 579, 725, 730, 735, 740, 745, 795.

4. **Education of the Deaf:** Communicative Disorders 550, 555, 556, 557, 558, 559, 732, 750, 766, 768.

C. Electives in areas supporting the specialization, of which not more than seven credits can be earned in workshops. A **thesis** may be selected, usually for three credits. (See item 4 under general requirements.)

The Master of Science (MS) Degree — Home Economics Education

The applicant's quality of work and the distribution of courses obtained at the undergraduate level must be approved by the Home Economics Education staff. (Since students in Home Economics Education must meet state teacher certification requirements, the analysis of courses completed is essential.)

I. The general requirements for the master's degrees must be met, as specified above.

II. The minimum of thirty credits in graduate courses is distributed as follows:

A. Home Economics Education — nine to twelve credits:

1. Home Economics 796, 799 (**Thesis**). (See item 4 under general requirements.)

2. Home Economics Education 595, 596, 791, 792, 793, 798 (required).

B. Education — three to nine credits.

C. Home Economics and related fields — twelve to eighteen credits,

selected from one, or two, or three of the following areas:

- 1. Clothing and Textiles:** Home Economics 522, 529, 533, 721, 729.
- 2. Child Development and Family Relationships:** Home Economics 667, 765, 769.
- 3. Food, Nutrition, Institution Management:** Home Economics 547, 577, 583, 646, 648, 649, 650, 655, 657, 748, 749, 753.
- 4. Consumer Education and Management:** Home Economics 771, 779.
- 5. Housing and Interiors:** Home Economics 511, 581, 612, 613, 616, 712, 719.
- 6. Other:** Home Economics 690.

The Master of Science (MS) Degree — Natural Resources

The Master of Science degree — Natural Resources encompasses the disciplines of forestry, water resources, wildlife, soil science, and resource management. Emphasis in the graduate program is directed toward environmental problems and their solution.

Students seeking the MS degree need not have an undergraduate major in one of the Natural Resource specialties. The number of deficiencies which will have to be completed will depend on the content of the undergraduate major; a student with a major in the social sciences or humanities should expect to have more deficiencies than one who has a major in the sciences or mathematics.

- I. The general requirements** for the master's degrees must be met, as specified above.
- II. The minimum of thirty credits** in graduate courses is distributed as follows:
 - A. No more than twelve credits** (not including thesis) may be taken in any one discipline:
 - 1. Forestry:** Forestry 521, 522, 524, 525, 532, 625, 626, 627, 628, 632, 693, 720, 730.
 - 2. Natural Resources:** Natural Resources 570, 571, 572, 573, 673, 674, 675, 790, 791, 792, 793, 795, 796, 797, 799.
 - 3. Soils:** Soils 561, 562, 564, 661, 665, 693, 760, 762.

4. Water: Water 582, 680, 681, 780, 781, 786, 787, 788, 789.

5. Wildlife: Wildlife 641, 642, 644, 645, 646, 651, 652, 653, 740, 742, 752.

B. Courses must be taken in at least three disciplines (e.g., Forestry, Wildlife, Biology, Education).

C. Thesis option. Select one of the following:

1. Two to six credits of thesis (see item 4 under general requirements), and two credits of seminar.

2. Two credits of seminar.

The Master of Science in Teaching (MST) Degree

I. The general requirements for the master's degrees must be met, as specified above.

II. The minimum of thirty credits in graduate courses is distributed as follows:

A. Professional Education — six to nine credits.

B. Liberal Arts — six to nine credits from outside the area of specialization.

C. Area of Specialization — the remaining credits selected from one of the following:

Biology; Communication (may include electives in Drama); Elementary Education; English; History; Social Studies (six to nine credits in one of the following disciplines, and the remainder in at least two of the others: Economics, cultural Geography, History, Natural Resources, Political Science, and Sociology).

Students may deviate from this distribution, keeping within the spirit and intent of the MST program. Approval of the adviser, department chairman, and Dean of the Graduate College is required.

III. Thesis option. Select either A or B:

A. A thesis, carrying two to six credits for research in an area of specialization. (See item 4 under general requirements.)

B. A research paper, carrying no credit, will be required if a thesis is not elected. Growing out of the **Seminar: Problems in Teaching**, this paper must be approved by the seminar instructor, and filed in the department of specialization.

Courses of Instruction

Course Numbers

Courses numbered below 100 do not carry college-level credit.

Courses numbered 100-199 are offered primarily at the freshman level. They are open to all students who have the prerequisites stated in the course descriptions. If no prerequisite is stated, the course is open to all students without restriction.

Courses numbered 200-299 are offered primarily at the sophomore level. They require sophomore standing or some other prerequisite. They are open to students who have earned 26 credits (exclusive of required Physical Education), or who have the prerequisites stated in the course descriptions.

Courses numbered 300-399 are offered primarily at the junior level. They require junior standing and whatever prerequisites are stated in the course descriptions. They are open to students who have earned 56 credits (exclusive of required Physical Education) and who have the prerequisites stated. In exceptional cases and for justifiable cause, the chairman of the department may give permission for a student with fewer than 56 credits to register for these courses, if he meets all other prerequisites. Such permission must be given in writing before the student registers for the course(s).

Courses numbered 400-499 are offered primarily at the senior level. They require senior standing and whatever prerequisites are stated in the course descriptions. They are open only to students who have earned 86 credits (exclusive of required Physical Education) and who have the prerequisites stated. In exceptional cases and for justifiable cause, the chairman of the department may give permission for a student with fewer than 86 credits to register for these courses, if he meets all other prerequisites. Such permission must be given in writing before the student registers for the course(s).

Any student who registers for courses contrary to these regulations will not receive credit for such courses.

To receive a degree, a student must earn at least 40 credits in courses numbered 300-499.

Graduate Courses

Courses numbered 300/500 - 399/599 may be taken either at the 300-level for undergraduate credit, or at the 500-level for graduate credit.

Courses numbered 400/600 - 499/699 may be taken either at the 400-level for undergraduate credit, or at the 600-level for graduate credit.

Courses numbered 700/799 are offered only at the graduate level.

Students may take courses numbered 500-799 only with the prior approval of the Dean of the Graduate College.

Pass-Fail Grading Program

Certain undergraduate courses (or certain sections of undergraduate courses) are available on a "Pass-Fail" basis. Such courses or sections are designated in the Time Table. For the regulations governing this program see the section of the catalog entitled "Academic Work."

AMERICAN CIVILIZATION

Mr. Mickelson, adviser.

A. A major in American Civilization consists of 45 credits divided among the four major areas: American History; American Literature; American Fine Arts, Communication, and Philosophy; and American Social Sciences. It is intended to provide a view of American Civilization as a recognizable entity—enabling the student to better understand his own culture and its relation to other cultures. Each student will be able to pursue personal interests in American culture by a concentrated selection of courses.

1. The major requires 26-29 credits of basic studies in American Life: English 213, 214 (American Literature); Geography 226 (North America); History 211, 212 (United States History); Music 101 (American Music); Political Science 101 (American National Government); Sociology 300 (The American Community); and American Civilization 300 (American Life), three or six credits.
2. Also required are nine credits of courses numbered 300 or above in a civilization other than that of the United States: courses from an approved list covering the history, literature, fine arts, philosophy, and social science of England, France, Germany, Russia, Latin America, the Far East, etc.
3. To complete the required 45 credits, sufficient additional credits of electives in courses numbered 300 or above should be selected from an approved list of courses in the four areas of American Civilization.
4. For teacher certification, students are required to make either of the following applications of Plans 1 and 3 as listed under the requirements for work in Secondary Education.

Plan 1 — Students earning a major and minor in two of the contributing disciplines may at the same time earn a major in American Civilization.

Plan 3 — Students earning the broad field major in social science can at the same time earn a major in American Civilization.

5. Students in the College of Letters and Science who are earning majors and minors in participating or non-participating fields can earn an interdepartmental major or minor in American Civilization.

B. A Minor in American Civilization consists of American Civilization 300 (three credit limit) and an additional 23 credits chosen from an approved list of courses in the four areas of American Civilization, the additional courses to be selected from at least three of the four areas with a minimum of nine credits in courses numbered 300 or above.

American Civilization 101. American Personality and the Creative Arts. Three credits. An interdisciplinary approach to American national personality as revealed by analyses of forms of American artistic expression: architecture, drama, fiction, music, painting, and poetry. The introductory course in American Civilization, demonstrating methods and philosophy of study.

American Civilization 300/500. American Life. Three credits. The integrating course in American Civilization for juniors and seniors, emphasizing an interdisciplinary study of American life in

terms of concentration on a specific theme, person, or period, such as individualism, Frank Lloyd Wright, or the 1920's. A subtitle will be added to the title each time the course is offered. The course may be repeated any number of times but the same title cannot be repeated.

American Civilization 701. Contemporary American Culture. Three credits. An interdisciplinary approach to American life, thought, and creative expression since World War II; materials integrated from history, literature, and music.

ANTHROPOLOGY

Courses in Anthropology are taught by members of the department of Sociology and Anthropology, which also administers the major and minor in Sociology and Anthropology.

For the description of the major and minor and for course listings in Anthropology, see the section headed **Sociology and Anthropology**, later in the catalog.

ART

Mr. Runke, chairman; Mr. Boyce, Mr. Brown, Mr. Fabiano, Miss Garvey, Mr. Hagen, Mr. Halverson, Mr. Hanford, Mr. Keats, Mr. Kwiatkowski, Miss Porter, Mr. Sandmann, Mr. Sauer, Mr. Schneider, Mr. David Smith, Mr. Volk.

A. A major in Art consists of 54 credits in Art, including Art 101, 102, 103, 221, 231, 232, 241, 251, 261, 271, 282, 283, and 490.

For teacher certification, Education 322, 331, 380, 381, and 10 credits of 398; and Psychology 200 and 260 are also required. (A minor is not required with a 54 credit major.)

B. A minor in Art consists of 22 credits including:

1. Art 101, 102, and 103;
2. Two of these: Art 221, 231, 232;
3. Two of these: Art 241, 251, 261, 271;
4. Art 282 or 283 or 381.

In certain cases, substitutions may be permitted by the chairman of the department.

A fee is charged for some studio courses to cover the cost of materials furnished to the student by the department.

The Art department, after consultation with the student, reserves the right to hold one piece of work in each studio area for display purposes and as part of the permanent collection of the department.

Upper class Art majors and minors who are approaching graduation are invited to use the Edna Carlsten gallery facilities to mount a culminating show of their work. Shows can be mounted on an individual or multi-person basis. Gallery space and reservations can be arranged with the gallery director.

Art 101. Design: 2-dimensional. Three credits. Fundamental design principles in the art process on the 2-dimensional plane, including art structure, color theory, and principles of arrangement, utilizing a variety of materials. Students may not receive credit for both Art 101 and Home Economics 101. Fee: \$1.00.

Art 102. Design: 3-dimensional. Three credits. Fundamental design principles in the art process in 3-dimensions, in structure and arrangement utilizing a variety of materials. Fee: \$1.00.

Art 103. Drawing. Three credits. Basic drawing utilizing a variety of subject matter, media, and approaches with emphasis on visual perception and awareness. Prerequisite: Art 101 or 102. Fee: \$3.00.

Art 104. Drawing. Three credits. Advanced problems in drawing emphasizing

conceptual development. Prerequisite: Art 103. Fee: \$3.00.

Art 106. Layout and Lettering. Two or three credits. Fundamentals of lettering in various alphabets; problems in poster, sign, and advertising layout in a variety of media.

Art 221. Printmaking. Three credits. Printmaking in black and white, and color, employing basic graphics media and techniques. Prerequisite: Art 103. Fee: \$9.00.

Art 231. Painting: Watercolor. Three credits. Painting in transparent and opaque watercolor. Prerequisite: Art 103. Fee: \$3.00.

Art 232. Oil Painting. Three credits. Painting techniques in figure, still life, and landscape. Prerequisite: Art 103. Fee: \$3.00.

Art 233. Life Drawing. Three credits. Drawing the human figure with attention to anatomy utilizing a variety of media. Prerequisite: Art 103. Fee: \$9.00.

Art 241. Crafts. Three credits. Application of design principles in various craft activities. Prerequisite: Art 103. Fee: \$9.00.

Art 251. Sculpture. Three credits. Introduction to materials and techniques of sculpture. Prerequisite: Art 103. Fee: \$9.00.

Art 261. Ceramics. Three credits. Introduction to the materials and techniques of ceramics; methods of construction of ceramic ware, glazing, firing, and kiln management. Prerequisite: Art 103. Fee: \$9.00.

Art 271. Art Metal. Three credits. Basic materials and techniques of art metal. Prerequisite: Art 103. Fee: \$9.00.

Art 282. History of Ancient and Medieval Art. Three credits. Historical survey of architecture, sculpture, and painting, including Egypt, Greece, Rome, and Medieval Europe. Prerequisite: Sophomore standing.

Art 283. History of Renaissance and Modern Art. Three credits. Historical survey of architecture, sculpture, and painting in the western world from the 15th century to the present. Prerequisite: Sophomore standing.

Art 321. Printmaking. Three credits. Advanced problems in the graphics media. Prerequisite: Art 221. Fee: \$9.00.

Art 331. Painting: Watercolor. Three credits. Advanced problems in watercolor media. Prerequisite: Art 231. Fee: \$3.00.

Art 332. Oil Painting. Three credits. Advanced problems in the oil medium and other contemporary media. Prerequisite: Art 232. Fee: \$3.00.

Art 333. Life Drawing. Three credits. Continuation of study of the human figure with emphasis towards experimental work. Prerequisite: Art 233. Fee: \$9.00.

Art 341. Crafts. Three credits. Advanced problems of applied design in various craft activities. Prerequisite: Art 241. Fee: \$9.00.

Art 342. The Crafts of the American Indians. Two or three credits. A laboratory investigation into the material culture of the Indians of North America with particular emphasis on the traditional crafts of the Woodland Cultures. Laboratory experience in such crafts as weaving, lapidary, basketry, quill embroidery, ceramics, and other media as are available directly from natural resources. Some field trips may be required.

Art 343. Woven Textiles. Three credits. Design principles in two and three dimension woven textiles. Use of armature, frame and harness looms; natural and synthetic fibers. Prerequisite: Art 101, 102, 103; or Home Economics 101 and 233, or concurrent registration. Fee: \$9.00.

Art 344. Printed Textiles. Three credits. Design principles in hand printed two and three dimensional textiles; direct area dyeing, resist dyeing, silk screen and block printing. Prerequisite: Art 101, 102, 103; or Home Economics 101 and 233, or concurrent registration. Fee: \$9.00.

Art 351. Sculpture. Three credits. Advanced problems in sculpture including

a greater variety of materials and advanced techniques. Prerequisite: Art 251. Fee: \$9.00.

Art 361. Ceramics. Three credits. Advanced problems and techniques in ceramic art. Prerequisite: Art 261. Fee: \$9.00.

Art 371. Art Metal. Three credits. Advanced problems in art metal. Prerequisite: Art 271. Fee: \$9.00.

Art 381. History of the Visual Arts. Three credits. Major periods, styles, artists, and problems of architecture, sculpture, and painting. Not open to Art majors to fulfill Art department art history requirements or to students who have had Art 282 or 283.

Art 382. History of Latin American Art. Two credits. Survey of the visual arts of Latin America from prehistoric to contemporary times. Prerequisite: Art 282 or 283 or 381.

Art 383. History of 19th and 20th Century European Painting. Three credits.

Historical survey of the development of modern European painting. Prerequisite: Art 282 or 283 or 381.

Art 384. History of Painting in the United States. Three credits. Historical survey from the colonial period to the present. Prerequisite: Art 282 or 283 or 381.

Art 385. History of Sculpture in the United States. Two credits. Historical survey of native sculpture, sculptors, and movements in sculpture of the United States from the colonial period to the present. Prerequisite: Art 282 or 283 or 381.

Art 386. History of Modern Architecture. Three credits. Historical survey of the development of modern and American architecture of the 19th and 20th centuries. Prerequisite: Art 282 or 283 or 381.

Art 387. History of Classical Art. Three credits. Historical survey of the visual arts of Greece and Rome with special emphasis on architecture and sculpture. Prerequisite: Art 282 or 283 or 381.



Art 388. African Art. Three credits. Sub-Saharan African art; survey of the visual tribal arts of sub-Saharan black Africa with emphasis on architecture and sculpture.

Art 399. Special Work. Each one to three credits. Upper class students majoring or minoring in Art, may by agreement with the chairman of the Art Department and an appropriate member of the Art Department, arrange for special advanced work, for which credit may be allowed on the basis of the scope of the work intended. **399A—Design** (Fee: \$1.00 per student); **399B—Drawing**; **399C—Printmaking** (Fee: \$3.00 per credit); **399D—Painting**; **399F—Crafts** (Fee: \$3.00 per credit); **399G—Sculpture** (\$3.00

per credit); **399H—Ceramics** (Fee: \$3.00 per credit); **399J—Art Metal** (Fee: \$3.00 per credit); **399K—Art History**; **399Z—** (Subtitle will be supplied).

Art 490. Seminar. Two credits. Open only to Art majors; research into problems and developments in the field of Art.

Art 701. Historical and Philosophical Concept of Art. Three credits. Philosophical and aesthetic aspects of Art in both its historical and contemporary phases; the arts in the life of the individual; the function of the arts in society. For students with little or no background in Art.

ASIAN STUDIES

Mr. Walker, adviser.

A Minor in Asian Studies consists of 24 credits:

1. **Basic Courses**—12 credits selected from the following:

Asian Studies 101 (Introduction); **Geography** 327 (Asia); **History** 215 (East Asia to 1800); 216 (East Asia Since 1800); **Philosophy** 105 (India and China); **Political Science** 106 (Developing Areas, when offered with primary emphasis on Asia).

2. **Specialized Courses**—12 credits selected from the following specialized Asian content courses (area or disciplinary emphasis to be determined in consultation with the Asian Studies adviser):

Anthropology 137 (Peoples of Asia); **Asian Studies** 399 (Special Work); **Comparative Literature** 250 (Oriental); **Geography** 331 (China); **History** 345 (China to 1644), 346 (China Since 1644), 347 (Japan to 1854), 348 (Japan Since 1854), 349 (Korea to 1800), 350 (Korea Since 1800); **Music** 428 (Pacific, Near East, Asia); **Philosophy** 335 (Hinduism, Buddhism), 336 (Contemporary Indian Thought); **Political Science** 370 (South Asia), 371 (China), 372 (Southeast Asia), 488 (U.S. Policy in Asia), 490 (Political Thought of India), 494 (Communism in Asia); **Religious Studies** 100 (Eastern Religions); **Sociology** 375 (Social Structures and Change in Northeast Asia).

3. Asian language study is recommended.

Asian Studies 101. Introduction to Asian Studies. Three credits. A study of traditional and contemporary Asia, emphasizing its unity and diversity, from an interdisciplinary approach; geographical, historical, philosophical, religious, governmental, social, anthropological, linguistic, literary, artistic, and cultural aspects of Asian life.

Asian Studies 399. Special Work. One to three credits. Upper class students enrolled for the Asian Studies minor may, by agreement with the Asian Studies adviser, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

ASTRONOMY

Mr. Blocher, Mr. McMillan, Mr. Taylor.

Astronomy 100. Unveiling the Universe. Three credits. An encounter with man's ideas concerning the physical universe, from earth to intergalactic space. Two hours lecture, two hours laboratory per week. This course may be used in partial fulfillment of Part B of the Natural Science requirement of the general degree requirements.

Astronomy 311. Introduction to Astronomy. Three credits. Descriptive approach to astronomy through study of the solar system, stars, star clusters, nebulas, and galaxies; evening meetings required for observation; use made of telescopes and planetarium.

BIBLIOGRAPHY

Mr. Kampenga.

Bibliography 351. Introduction to Library Resources. Two credits. Introduction to the systematic approach to subject materials, printed bibliography, references and materials of critical

search, with practice in compilation of bibliographies using approved forms of descriptive bibliography and footnote usage. Open to sophomores with consent of instructor.

BIOLOGY

Mr. Thiesfeld, chairman; Mr. Barnes, Mr. Becker, Mr. Copes, Mr. Dombeck, Mr. Epple, Mr. Freckmann, Mr. Geeseman, Mr. Hall, Mr. Joseph Harris, Mr. Don Hay, Mr. Heig, Mr. Hillier, Mr. Knopf, Mr. Long, Mr. Sam Moore, Mr. Pierson, Mr. Post, Mr. Quick, Mr. Simpson, Mr. Harry Smith, Mr. Taft, Mr. Temp, Mr. White, Mr. Whitmire, Mr. Wilde.

A. A major in Biology consists of a minimum of 34 credits including Biology 130; 160; 205; 210; 490; and one of the following: 281, 314, 351 or 381. The additional courses must include one advanced plant course and one advanced animal course, other than that taken to satisfy the physiology requirement. One year of college chemistry and at least one semester of college mathematics (selected from Mathematics 107, 110, 224, or 225) are required.

Geology 339 and Wildlife 441 are acceptable as part of the biology major.

To be accepted as a major, to be retained as a major, and to be approved for

graduation, the student must have a minimum grade point ratio of 2.00 in courses taken within the Biology major. The department chairman may allow exemptions to the above on a conditional basis.

B. A minor in Biology consists of a minimum of 22 credits including Biology 130; 160; 281 or 351. At least four credits should be in courses numbered 300 or above in the area (plant or animal) opposite to that selected for the physiology course.

Students who have taken Biology 101 may complete a minor by taking Biology 281 or 351; 205 or 210; and other courses specifically approved by the chairman of the department to total at least 22 credits.

To be approved for graduation with a minor in Biology, the student must have a minimum grade point ratio of 2.00 in courses taken within the Biology minor.

Biology 100. Biological Principles and Man. Three credits. A survey of biology with special emphasis on man's present and future relationship to his environment. Two hours lecture, three hours laboratory per week. This course will apply to part B of the Natural Science requirement for the Bachelor of Music and the Bachelor of Science degrees.

Biology 101. General Biology. Five credits. Biological principles; survey of a wide variety of plant and animal life. Three hours lecture, four hours laboratory per week. Credit for this course cannot be counted for graduation or the major if Biology 130 and 160 (or equivalent) are counted.

Biology 109. Nature Study. Two credits. General relationships of plant and animal life (to mankind) with special attention to nature study teaching and its correlation in the elementary grades.

Biology 130. Introduction to Plant Biology. Five credits. General biological principles with emphasis on growth, reproduction, structure and functions of plants; morphological studies of typical plants. Three hours lecture, four hours laboratory per week.

Biology 160. Introduction to Animal Biology. Five credits. Anatomy, physiology, adaptation, and classification of animals; morphology and anatomy of various types of animals. Three hours lecture, three hours laboratory per week. Additional two-hour test sections four times during the semester.

Biology 205. Introduction to Ecology. Three credits. Interrelationships of plants and animals; ecosystem concepts; organization and distribution of biotic communities; application of ecological principles to human affairs. Prerequisite: Biology 101; or 130 and 160.

Biology 210. Heredity and Eugenics. Three credits. General principles of heredity and variation in plants and animals, with emphasis on human inheritance. Prerequisite: Sophomore standing.

Biology 244. Trees and Shrubs. Three credits. Identification of the woody plants, native and cultivated, in summer and winter conditions; their use in landscaping and wildlife plantings and methods of vegetative propagation. One hour lecture, four hours laboratory per week. Nominal pro-rata charge for field trip expenses. Prerequisite: Biology 101 or 130.

Biology 277. Ornithology. Three credits. Identification, life histories, and habits of birds, with emphasis on local species. One hour lecture, four hours laboratory per week. Nominal pro-rata charge for field trip expenses. Prerequisite: Sophomore standing.

Biology 280. Personal and Community Health. Three credits. Health practices and problems in the fields of personal and community health. Prerequisite: Sophomore standing.

Biology 281. Animal Physiology. Four credits. A general course dealing with body functions. Three hours lecture, three hours laboratory per week. Prerequisite: Biology 160; or Biology 101 and Chemistry 101.

Biology 309/509. Field Biology. Three credits. Field trips; collection, preparation, and identification of local plants and animals. One hour lecture, four hours laboratory per week. Nominal pro-rata charge for field trip expenses. Not to be counted as credit if Biology 342 and/or Biology 379 are also taken. Prerequisite: Biology 101, or 130 and 160.

Biology 311/511. Organic Evolution. Three credits. Origin and evolution of the Bios. Prerequisite: Biology 101, or 130 and 160.

Biology 314/514. Cell Biology. Four credits. The structure of the cell and function of its component organelles. Methods for study of the cell and the cellular and molecular bases of cytogenetics. Two hours lecture, four hours laboratory per week. Nominal pro-rata charge for field trip expenses. Prerequisite: Biology 130, 160, and one year of college chemistry.

Biology 320/520. Biological Technique. Four credits. Preparation of plant and

animal tissues, organs, and entire organisms for microscopic and macroscopic study. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 101, or 130 and 160.

Biology 322/522. Museum Methods. Three credits. Preparation, utilization, and care of natural history materials for research and exhibition; preparation of educational programs for museums, nature centers, and schools; for teachers and those interested in museum or nature center professions. Six hours laboratory per week. Prerequisite: Consent of the instructor.

Biology 330/530. Plant Morphology. Four credits. Form and structure of plants and plant parts, both vegetative and reproductive. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 130.

Biology 331/531. Plant Anatomy. Four credits. Study of the internal structures of vascular plants, with special emphasis on development, function, and evolutionary history. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 101 or 130.

Biology 333/533. General Bacteriology. Four credits. Introduction to morphology, physiology, classification, and cultivation of bacteria, yeasts, and molds, with consideration of applied phases of bacteriology. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 101, or 130, or 160. Preparation in chemistry is highly desirable.

Biology 335/535. Mycology. Four credits. The taxonomy, morphology, physiology, and ecology of fungi; the role of fungi in disease, industry, decomposition, food production, and biological research. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 130 or consent of instructor.

Biology 337/537. Plant Pathology. Three credits. Causes, symptoms, spread, and control of plant diseases. Two hours lecture, two hours laboratory per week. Prerequisite: Biology 130.

Biology 342/542. Vascular Plant Taxonomy. Three or four credits. A survey of the major groups with emphasis on identification, classification, and phylogeny of flowering plants. Two hours lecture, and two or four hours laboratory per week. Prerequisite: Biology 101 or 130.

Biology 345/545. Agrostology. Two credits. The structure, identification, classification, and evolution of grasses and grass-like plants. One hour lecture, two hours laboratory per week. Prerequisite: Biology 101 or 130.

Biology 346/546. Aquatic Plants. Four credits. The taxonomy and ecology of aquatic plants with emphasis on local species of freshwater angiosperms and algae. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 101 or 130.

Biology 351/551. Plant Physiology. Four credits. Plant growth and the chemical and physical processes associated with growth and reproduction. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 130, and one year of college chemistry.

Biology 355/555. Plant Ecology. Three credits. Analysis of physical and biotic environment of plants; plant adaptations; composition, distribution and dynamics of plant communities; ecological methods; field trips. Two hours lecture, three hours laboratory per week. Prerequisite: Biology 205 or consent of the instructor; a course in plant taxonomy is recommended but not required.

Biology 360/560. Invertebrate Zoology. Four credits. Structure, function, classification, and life history of each of the major groups of invertebrate animals (exclusive of the insects and parasitic invertebrates). Two hours lecture, four hours laboratory per week. Nominal pro-rata charge for field trip expenses. Prerequisite: Biology 101 or 160.

Biology 362/562. Animal Parasitology. Four credits. Structure, classification, and life histories of animal parasites. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 101 or 160.

Biology 364/564. Protozoology. Four credits. Biology of free-living and parasitic protozoa; systematics, morphology, morphogenesis, physiology, genetics, and ecology. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 160. A year of chemistry is highly desirable.

Biology 367/567. General Entomology. Four credits. Structure, classification, and natural history of insects, with practice in collecting, mounting, and identification. Two hours lecture, four hours laboratory per week. Nominal pro-rata charge for field trip expenses. Prerequisite: Biology 101 or 160.

Biology 370/570. Comparative Vertebrate Anatomy. Four credits. Structure and evolutionary relationships of vertebrates; basic similarities and progressive changes in animals as they increase in complexity from aquatic to land forms. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 160.

Biology 371/571. Embryology. Four credits. Early embryology of vertebrates and the development of organ systems. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 160.

Biology 372/572. Natural History of Vertebrates. Four credits. Life histories and classification of midwestern vertebrates. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 101 or 160.

Biology 373/573. Histology. Four credits. The microanatomy and related function of vertebrate (primarily mammalian) organs, tissues, and cells. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 160; Chemistry 105 and 106, or 115 and 116. Biology 281 is strongly recommended but not required.

Biology 374/574. Ichthyology. Four credits. Classification and natural history of fishes, with emphasis on food, game, and forage fishes found in Wisconsin. Two hours lecture, four hours laboratory per week. Nominal pro-rata charge for field trip expenses. Prerequisite: Biology 101 or 160.

Biology 375/575. Life Histories of Fishes. Three credits. Reproduction, behavior, growth, habitat, food, parasites, associates, and senescence of fishes. Two hours lecture, two hours laboratory per week. Prerequisite: Biology 101 or 160 or consent of instructor.

Biology 376/576. Herpetology. Three credits. The biology of reptiles and amphibians, including research methods and identification of species found in North America. Two hours lecture, three hours laboratory per week. Prerequisite: Biology 101 or 160.

Biology 378/578. Mammalogy. Three credits. Taxonomy, zoogeography, life history, and ecology of mammals with field work. Two hours lecture, two hours laboratory per week. Nominal pro-rata charge for field trip expenses.

Biology 379/579. Field Zoology. Three credits. Field trips; collection, preparation, and identification of local animals. One hour lecture, four hours laboratory per week. Nominal pro-rata charge for field trip expenses. Prerequisite: Biology 101 or 160.

Biology 381/581. Comparative Animal Physiology. Four credits. A comparative study of physiological adaptations of aquatic and terrestrial animals to their environments. Three hours lecture, three hours laboratory per week. Prerequisite: Biology 160 and one year of college chemistry.

Biology 383/583. Human Reproduction. Three credits. Developmental, physiological, and anatomical components of human reproduction. Prerequisite: Biology 100 or 101 or 160 or consent of instructor.

Biology 385/585. Animal Ecology. Three credits. Distribution and abundance of animals; habitat relationships; properties, dynamics, and natural regulations of animal populations; intraspecific and interspecific reactions. Two hours lecture, three hours laboratory per week. Prerequisite: Biology 205 or consent of instructor; a course in statistics is recommended but not required.

Biology 388/588. Animal Behavior. Three credits. A comparative approach to the study of animal behavior; description, classification, analysis, and evolution of behavioral patterns of vertebrates, with emphasis on social behavior and underlying mechanisms. Two hours lecture, three hours laboratory per week; individual term project. Nominal pro-rata charge for field trip expenses. Prerequisite: Biology 160.

Biology 399/599. Special Work. One or two credits. Upper class students ma-

joring or minoring in Biology may, with the consent of the chairman of the Biology Department, arrange for special research projects and be allowed one or two credits for the satisfactory completion of them.

Biology 405/605 Selected Topics in Ecology. Three credits. Major concepts and problems in an area of ecology. Three hours lecture; or two hours lecture and three hours laboratory per week. Prerequisite: Biology 205.

Biology 425/625. Problems in Quantitative Biology. Two credits. Selected problems in quantitative biology and independent projects involving analysis of data obtained in the student's field of interest. One hour lecture, three hours laboratory per week. Prerequisite: Biology 130 and 160; Mathematics 110 recommended.

Biology 490/690. Seminar. One credit. Studies and discussions of biological problems. Required of all Biology majors during the senior year.

Biology 705. Advanced Ecology. Three credits. Studies in population and community ecology and measurements of the effect of environment on organisms. Two hours lecture, three hours laboratory per week. Prerequisite: Biology 205 or equivalent.

Biology 710. Advanced Genetics. Four credits. Genetic analysis of selected organisms; transmission, function, and mutation of genes; radiation and genes; quantitative inheritance and population of genetics. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 210 or equivalent.

Biology 711. Physiological Mechanisms. Four credits. Respiration, photosynthesis, nitrogen metabolism and pertinent metabolic pathways as related to current knowledge of cell structure and growth. Three hours lecture, two hours laboratory per week. Prerequisite: Biology 551 or consent of instructor.

Biology 726. Problem Analysis. Two credits. A specialist will direct investigations of principles and mechanics within the area of his specialty. Lectures will alternate with reports from the participants. This course may be repeated as often as the topic area changes. Prerequisite: Consent of instructor.

Biology 728. Integrated Biological Concepts. Three credits. Designed to integrate biology and relate it to other natural sciences, social sciences, and humanities, by the exploration of major biological concepts. Includes laboratory and field work. Open to experienced teachers who have had an introductory course in a biological science and who are not specializing in a biological science.

Biology 790. Graduate Seminar. One credit. Studies and discussions of biological problems.

Biology 796. Independent Study. One to three credits. Planned reading designed to enrich and supplement the student's preparation and mechanics within the area of his specialty. This course may be repeated as often as the topic changes. Prerequisite: Consent of instructor.

Biology 799. Thesis. Two to six credits.

BUSINESS AND BUSINESS ADMINISTRATION

Courses in Business are taught by members of the Economics and Business Department, which also administers the major in Business Administration.

A major in Business Administration consists of (a) 48 credits in Business and Economics, and (b) seven credits of required collateral courses. A student completing this major will at the same time fulfill the requirements for a minor in Economics.

A. The 48 credits in Business and Economics shall include:

1. Forty-two credits as follows: Business 210, 211, 310, 330, 340 or Economics 315, and Business 370 or 380; Economics 200, 201, 311 or 365, 330, 341, 345 or Psychology 270, Economics 360, and 453.
2. Six credits from the following: Business 261, 320, 350; Economics 361.

B. The required collateral courses are English 250 and Mathematics 108.

A minimum grade point ratio of 2.00 in courses taken within the major is a requirement for acceptance of the student as a major at the start of his junior year. The minimum grade point ratio of 2.00 in courses in the major is also a requirement for the student's retention as a major during his junior and senior years and for department approval of the major for graduation. The department chairman may allow exceptions to this standard on a conditional basis.

Business 210. Principles of Accounting

I. Three credits; four hours per week. Accounting fundamentals applied to individual proprietorships; the account cycle; financial statements; special journals and subsidiary ledgers; accounting for cash, notes, receivables, and fixed assets; voucher system; payroll accounting. Prerequisite: Sophomore standing.

Business 211. Principles of Accounting

II. Three credits; four hours per week. Accounting principles applied to corporations; partnership accounting; cost accounting for manufacturing firms; budgeting; interpretation of financial statements; flow of funds; tax considerations in business decisions. Prerequisite: Business 210.

Business 261. Principles of Insurance.

Three credits. For the non-specialist, an introduction to the history of insurance, basic definitions and terminology, the fields of insurance and types of car-

riers, the insurance contract, the planning and purchase of insurance. Prerequisite: Economics 200, or consent of instructor.

Business 310. Intermediate Accounting.

Three credits; four hours per week. Theories in corporation accounting and application of alternative accounting procedures with problems illustrating their use. Prerequisite: Business 211.

Business 311. Cost Accounting.

Three credits; four hours per week. Principles of accounting for cost in manufacturing enterprises, including overhead costs, job order and process cost systems, standard cost procedures, and distribution of cost principles and procedures. Prerequisite: Business 310 with a grade of C or better, or consent of instructor.

Business 312. Advanced Accounting.

Three credits; four hours per week. Advanced and specialized accounting ap-

plications; office and branch office accounting, consolidations and fiduciaries. Prerequisite: Business 310 with a grade of C or better, or consent of instructor.

Business 320. Data Processing. Three credits. Computer systems and their application to business problems; machine indoctrination, coding, computer logic, programming, and specialized techniques allied with integrated data processing. Prerequisite: Economics 200, or consent of the instructor.

Business 330. Marketing. Three credits. An analysis of institutions, functions, and problems in marketing; planning and procedures related to the distribution of goods: costs, price determination, and trends. Prerequisite: Economics 201.

Business 340. Business Law. Three credits. Law of real and personal property, agency, negotiable instruments, and contracts.

Business 350. Investments. Three credits. Construction and management of

investment portfolios in order to meet the needs of personal and institutional investors; selection of securities in order to balance income, risk, and capital growth. Prerequisite: Economics 341.

Business 370. Personnel Relations. Three credits. Principles, policies, and practices applicable to personnel problems in dealing with staffing, training, wages, labor relations, communications. Prerequisite: Economics 200.

Business 380. Principles of Management. Three credits. Theory of management, managerial functions, departmentalization, staffing, direction, planning, and control. Prerequisite: Economics 200.

Business 499. Special Work. Upper-class students majoring in Business Administration may, by agreement with the department chairman, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

BUSINESS EDUCATION

Mr. Hille, chairman; Mrs. Ann Carlson, Mrs. Sage.

A. The comprehensive major in Business Education consists of:

1. Business Education 101, 102, 103, 104, 304, 305, 306, and 307.
2. Collateral courses including: Business 210, 211, 310, 320, 340, and 380; Economics 200, 201, and 330; Mathematics 108.

B. The comprehensive major in Business Education, Secretarial, consists of the courses listed under A, above, with the following exceptions:

1. Omit Business 210, 211, and 310.
2. Add Business Education 303.
3. Add five credits of Business or Economics courses.

C. The comprehensive major in Business Education, Accounting, consists of the courses listed under A, above, with the following exceptions:

1. Omit Business Education 103, 104, and 305.
2. Add Business Education 303.
3. Add eight credits of Business or Economics courses.

D. The major in Business Education, with a minor in a field outside of Business Education, consists of:

1. The courses listed under A, above, with the omission of Business Education 306 and Business 320.
2. Completion of a minor in some other subject.

Business Education 101. Beginning Typewriting. Two credits. The mechanism of the typewriter, its technique of operation and the development of basic skill.

Business Education 102. Advanced Typewriting. Two credits. Development of typewriting proficiency. Prerequisite: Business Education 101, or exemption on proficiency.

Business Education 103. Beginning Shorthand. Four credits. Introduction to shorthand; reading and dictation practice.

Business Education 104. Advanced Shorthand. Four credits. Development of shorthand abilities. Prerequisite: Business Education 103, or exemption on proficiency.

Business Education 303. Production Typewriting. Three credits. Advanced typewriting problems and practices; machine transcription. Prerequisite: Business 101 and 102, or equivalent.

Business Education 304. Office Procedure and Machines. Three credits. Principles of office organization, filing systems, business machines. Prerequisite:

Business Education 102 and 104, or equivalent.

Business Education 305. Secretarial Techniques. Three credits. Shorthand, typewriting, and English in the transcription of letters; duties, responsibilities, and personal qualities of the secretary; human relations in the business office. Prerequisite: Business Education 102 and 104, or equivalent.

Business Education 306. Secretarial Practices. Three credits. On-the-job work experience and training in industrial situations. Prerequisite: Business Education 102 and 304, or equivalent.

Business Education 307. Business Communication. Three credits. Methods and procedures in business letter writing; introduction to report writing.

Business Education 499. Special Work. Upper class students majoring in Business Education may, by agreement with the chairman of the Business Education department, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

CHEMICAL ENGINEERING

Several curricula for students planning to transfer to a course in Chemical Engi-

neering have been approved by the faculty. For information, consult the chairman of the Chemistry Department.

CHEMISTRY

Mr. Trytten, chairman; Mr. Andrews, Mr. Chitharanjan, Mr. Farnsworth, Mr. Kocurek, Mr. Lang, Mr. Nienke, Mr. Radtke, Mr. Reed, Mr. Rouda, Mr. Schmid, Mr. Showalter, Mr. Sommers, Mr. Steinpreis, Mrs. Taft, Mr. Thurmaier, Mr. Weaver.

A. A major in Chemistry (Letters and Science) may be earned in either of two ways:

1. A minimum of 34 credits, including Chemistry 225 (see note 1), 226, 228, 248, 335, 336, 338, 395, 496; and at least six credits chosen from Chemistry 329, 365, 425, 445, 446, 455.

Collateral requirements include Mathematics 110, 111, 212; Physics 110, 211, 212.

2. For those desiring professional certification by the American Chemical Society, a minimum of 41 credits, including Chemistry 225 (see note 1), 226, 228, 248, 329, 335, 336, 338, 395, 445 or 446, 455, 496; and at least five credits chosen from Chemistry 425, 445 or 446, 499 (one advanced course in mathematics or physics may be substituted for one of the chemistry courses in this group).

Collateral requirements include Mathematics 110, 111, 212; Physics 110, 211, 212; one year of German or Russian or its high school equivalent.

B. A major in Chemistry for teacher certification consists of a minimum of 28 credits, including Chemistry 225, 226, 228, 248, and ten credits in courses numbered 300 or over; normally these ten credits will consist of Chemistry 335, 336, 338, 391, and 492. (See Note 2, below.)

Collateral requirements include Mathematics 110, 111, 212; Physics 110, 211, 212.

A minimum grade point ratio of 2.00 in courses taken within the major is a requirement for acceptance of the student as a major at the start of his junior year. The minimum grade point ratio of 2.00 in courses in the major is also a requirement for the student's retention as a major during his junior and senior years and departmental approval of the major for graduation.

A maximum of one grade below C in Chemistry courses numbered 300 or above may be applied to the major.

Students not meeting these standards may petition the chairman of the department for consideration.

C. A minor in Chemistry consists of 22 credits, including Chemistry 225 (see Note 1), 226, 228, 248, and at least four additional credits of chemistry selected from courses numbered 300 or over, but excluding 499.

A minimum grade point ratio of 2.00 in Chemistry courses is required for departmental approval of the minor.

- Notes:**
1. For students majoring in chemistry the normal prerequisite for Chemistry 225 is Chemistry 115 and 116. With the consent of the chairman of the department, Chemistry 105 and 106 may be substituted for Chemistry 115 and 116.
 2. By special permission of the chairman of the department, Chemistry 330 may, in some cases, be substituted for Chemistry 335-336-338. However, the minimum of 10 credits of chemistry courses numbered 300 or over, exclusive of 499, must still be met.
 3. Students may not receive credit for both Chemistry 101 (or 103) and Chemistry 105.
 4. Several of the chemistry courses listed below are designed as service courses or for majors other than chemistry, and they do not count toward the chemistry major. In the case of courses numbered 300 and over, the course description includes this restriction.

Chemistry 100. Appreciation of Chemistry. Three credits. Introduction to selected principles of chemistry, emphasizing the relation between chemistry and modern society. Two hours lecture, two hours laboratory per week. This course will apply to part B of the Natural Science requirement for the Bachelor of Music and the Bachelor of Science degree.

Chemistry 101. Basic Chemistry. Five credits. Introduction to the principles of chemistry; atomic structure, bonding, stoichiometry, and descriptive chemistry involving some of the elements and compounds. Three hours lecture, one hour quiz, three hours laboratory per week. Not open to students who qualify for Chemistry 103, except with permission of the chairman of the department.

Chemistry 103. Basic Chemistry. Three credits. Fundamental laws and principles of chemistry; a study of atomic structure, bonding, and stoichiometry. Two hours lecture, three hours laboratory per week. Prerequisite: One year of high school chemistry; one year of high school algebra or equivalent, or Mathematics 103.

Chemistry 105. Fundamental Chemistry. Five credits. An introductory lecture and laboratory course for students who desire one year of college chemistry; fundamental principles, theories, and problems of chemistry, the descriptive chemistry of metallic and non-metallic elements, chemical equilibrium, organic and nuclear chemistry, and qualitative analysis. Three hours lecture, one hour quiz, and three hours laboratory per week. Prerequisite: Two acceptable units of high school mathematics, or Mathematics 104.

Chemistry 106. Fundamental Chemistry. Five credits. A continuation of Chemistry 105. Prerequisite: Chemistry 105.

Chemistry 114. General Chemistry Laboratory. One credit. For students enrolled in Chemistry 115 who desire introductory laboratory work; particularly for those with little or no laboratory experience. Three hours laboratory per week. Prerequisite: Concurrent enrollment in Chemistry 115.

Chemistry 115. General and Quantitative Chemistry. Four credits. Laws and principles of chemistry; atomic struc-

ture, formulas, and equations; stoichiometry and chemical equilibria. Three hours lecture, one hour quiz per week. Prerequisite: One year of high school chemistry; three years of high school mathematics or Mathematics 105. High school courses must have a grade of C or better to be accepted as prerequisites.

Chemistry 116. General and Quantitative Chemistry. Four credits. A continuation of Chemistry 115. Two hours lecture, one hour quiz, three hours laboratory per week. Prerequisite: Chemistry 115.

Chemistry 220. Survey of Organic Chemistry. Four credits. A systematic survey of the compounds of carbon for students needing only one semester of organic chemistry. Three hours lecture, three hours laboratory per week. Prerequisite: Chemistry 106 or 116.

Chemistry 225. Organic Chemistry. Three credits. An integrated study of the compounds of carbon. Prerequisite: Chemistry 116; or Chemistry 106 and consent of the chairman of the department.

Chemistry 226. Organic Chemistry. Three credits. A continuation of Chemistry 225. Prerequisite: Chemistry 225.

Chemistry 228. Organic Chemistry Laboratory I. Two credits. Basic methods and techniques used in the preparation and analysis of organic compounds. Six hours laboratory per week. Prerequisite: Chemistry 226 or concurrent registration.

Chemistry 240. Techniques of Analytical Chemistry. Four credits. Introduction to the methods used in chemical analysis, including instrumental and separation techniques. Two hours lec-

ture, six hours laboratory per week. Prerequisite: Chemistry 106 or 116.

Chemistry 248. Quantitative Analysis Laboratory. Two credits. Precision laboratory measurement in chemical analysis. Six hours laboratory per week. Prerequisite: Chemistry 116; or Chemistry 106 and consent of the chairman of the department.

Chemistry 260. Elementary Biochemistry. Four credits. Introduction to the structure and cellular reactions of the primary constituents of living cells; for students with limited preparation in organic chemistry. Three hours lecture, three hours laboratory per week. Prerequisite: Chemistry 106 or 116, or consent of instructor.

Chemistry 329. Organic Chemistry Laboratory II. Two credits. Extension of Chemistry 228 with more advanced preparative methods and instrumental techniques; introductory qualitative and quantitative analysis of organic compounds. Six hours laboratory per week. Prerequisite: Chemistry 226 and 228.

Chemistry 330. Brief Course in Physical Chemistry. Four credits. Introduction to physical chemistry with emphasis on the "classical" areas such as kinetics, thermodynamics, and colloidal phenomena. Three hours lecture, three hours laboratory per week. For students wanting only one semester of physical chemistry; not to be counted toward the major in chemistry. Prerequisite: Chemistry 220 or 228, and 240 or 248; Mathematics 212 or 224, or concurrent registration in either; Physics 104 or 211, or concurrent registration in either.

Chemistry 335. Physical Chemistry Lectures. Three credits. Atomic and molecular structure, thermodynamics, kinetics. Prerequisite: Chemistry 226, and

395 or concurrent registration in 395; Mathematics 212; Physics 212; or consent of instructor.

Chemistry 336. Physical Chemistry Lectures. Three credits. Continuation of Chemistry 335. Prerequisite: Chemistry 335, or consent of instructor.

Chemistry 338. Physical Chemistry Laboratory. Two credits. Laboratory work illustrating the principles of physical chemistry. Six hours laboratory per week. Prerequisite: Chemistry 248, 335, and 336 or concurrent registration in 336.

Chemistry 361. Physiological Chemistry. Five credits. Basic principles of biochemistry as they apply to human biology with laboratory emphasis on the application of biochemical techniques to clinical chemistry. Three hours lecture, six hours laboratory per week. Not to be counted toward the major or minor in chemistry. Prerequisite: Chemistry 240 or 248; 226 and 228, or 220.

Chemistry 365. Biochemistry. Five credits. The chemistry of the components of living cells, and the nature and mechanism of cellular reactions. Three hours lecture, six hours laboratory per week. Prerequisite: Chemistry 226, 228, and 248.

Chemistry 372. Wood Chemistry. Three credits. The chemistry of carbohydrates, cellulose, lignin, and wood extractives, and the effect of wood structure on their rates of reaction. Two hours lecture, three hours laboratory per week. Not to be counted toward the major or minor in chemistry. Prerequisite: Chemistry 220 or 228; 240 or 248; Forestry 428.

Chemistry 375. Polymer Science. Three

credits. The chemistry and physics of polymers, including synthesis, characterization, and mechanical properties. Two hours lecture, three hours laboratory per week. Prerequisite: Chemistry 226, and 336 or concurrent registration.

Chemistry 391. Seminar for Chemistry Majors in Teacher Education. One credit. Current topics in chemical education, chemical education literature, demonstrations, typical high school laboratory programs, and textbook evaluations. Prerequisite: Chemistry 226 and 228, or consent of instructor.

Chemistry 395. Seminar I. One credit. The use of the chemical and scientific literature; introduction to the concept of the seminar; student participation in studies and discussions of current developments in chemistry. Prerequisite: Chemistry 226.

Chemistry 425. Advanced Organic Chemistry. Three credits. Theoretical and physical organic chemistry including reaction mechanisms, quantum mechanical applications, and advanced stereochemistry. Prerequisite: Chemistry 336.

Chemistry 445. Analytical Chemistry I. Three credits. Theory and application of complex chemical equilibria and selected methods of analytical separations. One hour lecture, six hours laboratory per week. Prerequisite: Chemistry 336 and 338.

Chemistry 446. Analytical Chemistry II. Four credits. Instrumental methods of analysis including optical, electrical, and radiochemical methods. Two hours lecture, six hours laboratory per week. Prerequisite: Chemistry 336 and 338.

Chemistry 445. Advanced Inorganic Chemistry. Three credits. Nuclear chem-

istry, atomic and molecular structure, coordination compounds, inorganic reaction mechanisms, nonaqueous solvents, descriptive inorganic chemistry. Prerequisite: Chemistry 336 or concurrent registration.

Chemistry 458. Inorganic Chemistry Laboratory. One or two credits. Advanced preparative techniques; characterization of inorganic compounds; inorganic reaction kinetics; application of radioisotopes to chemical problems. Three or six hours laboratory per week. Prerequisite: Chemistry 338 or concurrent registration; Chemistry 455 or concurrent registration. (Only one credit is allowed with concurrent registration in Chemistry 338.) If the course is taken for one credit, it may be repeated for a total of two credits.

Chemistry 492. Seminar to Chemistry Majors in Teacher Education. One credit. Continuation of Chemistry 391. Prerequisite: Chemistry 391, or consent of instructor.

Chemistry 496. Seminar II. One credit. Student participation in studies and discussions of current developments in chemistry. Prerequisite: Chemistry 336, 395; or consent of instructor.

Chemistry 499. Special Work. Seniors majoring in chemistry may, with the consent of the chairman of the Chemistry Department, arrange for special research projects, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

CHILD DEVELOPMENT

See **Early Childhood Education**.

CHINESE

Courses in Chinese are administered by the Department of Foreign Languages and Comparative Literature.

Chinese 101. First Year Chinese. Four credits. Elementary modern Mandarin, for students with no previous training in the language.

Chinese 102. First Year Chinese. Four credits. Continuation of Chinese 101. Prerequisite: Chinese 101 or equivalent.

CIVIL DEFENSE EDUCATION

Don W. Heimlich, director; Richard E. Shurbert, deputy director; Merlin Streim, coordinator.

A contract between UW-Stevens Point and the Department of Defense, Office of Civil Defense, enables the university to conduct classes and conferences to accomplish the following:

- A. Orient public officials in their civil defense obligations;
- B. Develop a cadre of civil defense instructors;
- C. Train professional and operational personnel;
- D. Conduct seminars for civil defense oriented groups.

These non-credit offerings are presented throughout the State of Wisconsin and are scheduled as the need and interest develops. The specific areas of instruction are as follows:

- A. Radiological Monitoring for Instructors—40 class hours.
- B. Shelter Management for Instructors—40 class hours.
- C. Civil Defense Management—40 class hours.
- D. Radiological Defense Officer—40 class hours.
- E. Planning and Operations I—Community Shelter Planning—40 class hours.
- F. Planning and Operations II—Plans and Planning Procedures—40 class hours.
- G. Planning and Operations III—Operations—40 class hours.
- H. Emergency Operations Simulation Training—12 class and 4 lab hours.
- I. Conferences.

COLLOQUIUM

The purpose of the Colloquium is to help students acquaint themselves with great ideas developed by mankind and to evaluate the theories and practices of the twentieth century in the light of human learning of the past three thousand years. It is a course for reading and discussion.

The separate courses need not be taken in numerical sequence. Each course includes books from the ancient to the current and is sufficiently flexible to provide for the needs and interests of the students who register.

Credit in these courses may, with the consent of the chairman of the departments, be used to satisfy some of the requirements in the departments of History, Social Science, English, and Philosophy.

Colloquium 301, 302, 303, 304. Colloquium on Important Books. Each two credits. Group reading and discussion of some of the writings of eight different authors from the Greek era to the present. Prerequisite: Consent of the instructor.

COMMUNICATION

Mr. Christopherson, chairman; Mr. Allen, Miss Behrens, Mr. Bullis, Mr. Croft, Mr. Davidson, Mr. Dowling, Mr. Dreyfus, Mr. Ellery, Mr. Fritz, Miss Goldberg, Miss Gray, Mrs. Hacker, Mr. Houlihan, Miss Isaacson, Mr. Kauffeld, Mr. Kelley, Miss Kyes, Miss Leary, Mrs. McQueen, Mr. Menzel, Mr. Moe, Mr. Phillips, Mrs. Rice, Mr. Rogers, Mr. Witt.

A. A major in Communication in the College of Fine Arts consists of a minimum of 32 credits in Communication courses, 14 of which must be in courses num-

bered 300 or above. The following courses are required: Communication 105, 107, 210, 211, 217, and 219. Communication 101 and more than four credits of Communication activities may not be included among courses used to complete the major.

B. A major in Communication for teacher certification consists of a minimum of 36 credits in Communication courses, 14 of which must be in courses numbered 300 or above. The following courses are required: Communication 105, 107, 210, 211, 217, 219, 317, and 318. Communication 101 and more than four credits of Communication activities courses, may not be included among courses used to complete the major. (This major satisfies certification requirements in the academic area designated **Speech** by the Wisconsin Department of Public Instruction.)

C. An Interdepartmental major in Communication and Drama for teacher certification consists of 39 credits, 14 of which must be in courses numbered 300 or above. The following are required:

1. Communication 101, or equivalent; Communication 317 or 318; Drama 382; Communication or Drama electives (three or more credits) selected to satisfy the Humanities requirement.
2. Communication 228, 303, 312 or 324, 320; three credits of Communication electives.
3. Drama 130, 171, 240, 375; three credits of Drama electives. (This major satisfies certification requirements in the academic area designated **Speech** by the Wisconsin Department of Public Instruction.)

D. A minor in Communication in the College of Fine Arts consists of 21 credits including Communication 105, 107, 219; and one of the following: 210, 211, or 217. Communication 101 and more than two credits of Communication activities courses may not be used to complete the minor.

E. A minor in Communication for teacher certification consists of 24 credits including Communication 105, 107, 210, 211 or 217, 219, and 317 or 318. Communication 101 and more than two credits of Communication activities courses may not be used to complete the minor. (This minor satisfies certification requirements in the academic area designated **Speech** by the Wisconsin Department of Public Instruction.)

Communication 101. Fundamentals of Oral Communication. Two or three credits. Introduction to and application of those principles which lead to an understanding of and facility with practical discourse.

Communication 105. Man and Communication. Three credits. A historical survey of communication theories and practices with special emphasis on developments in the twentieth century.

Communication 106. Organizational Leadership. Two credits. Problems and procedures of organizational operation focusing on: parliamentary procedure; the management of meetings; leadership; methods of resolving problems common to campus, community, and related organizations.

Communication 107. Nature of Practical Argument. Three credits. An introduction to the logical structure of

ordinary argumentative acts, its application in communicative practice and theory.

Communication 126. Communication Activities: Debate-Forensics. One credit. Directed experience in debate and forensics, by special arrangement with the instructor. (May be repeated.)

Communication 127. Communication Activities: Media. One credit. Directed experience in film, radio, TV, newspaper, and yearbook production, by special arrangement with the instructor. (May be repeated.)

Communication 210. Introduction to Mass Communication. Three credits. Investigation of and experience with communication processes within the context of mass media and mass audience. Prerequisite: Sophomore standing.

Communication 211. Introduction to Interpersonal Communication. Three credits. Investigation of and experience with communication conducted within small groups. Prerequisite: Sophomore standing.

Communication 213. Fundamentals of Public Speaking. Two credits. Frequent practice in preparation and presentation of speeches, with moderate emphasis on analysis and evaluation. Prerequisite: Sophomore standing.

Communication 217. Introduction to Organizational Communication. Three credits. Investigation of and experience with communication within institutionalized channels. Prerequisite: Sophomore standing.

Communication 218. Speech Dynamics in Early Childhood. Three credits. Influence on physical maturation and

learning on development of speech; the role of communication in childhood; inter-relationships of creativity and communication. Prerequisite: Sophomore standing.

Communication 219. Art of Criticism. Three credits. An introduction to the nature and practice of criticism as applied to communicative acts, with special emphasis on the description and evaluation of messages. Prerequisite: Sophomore standing.

Communication 228. Survey of Public Address. Three credits. A historical and analytical study of outstanding speakers from the Greeks to the present. Prerequisite: Sophomore standing.

Communication 301/501. News and Public Affairs. Three credits. The informational forms of mass communication and factors which constrain these forms and their functions.

Communication 302/502. Popular Arts. Three credits. The entertainment and promotional forms of mass communication and the factors constraining these forms and their functions.

Communication 303/503. Advanced Public Speaking. Two or three credits. The preparation of a variety of expository talks delivered in an extemporaneous manner; emphasis on analysis and evaluation in depth. Prerequisite: Communication 101 or consent of instructor.

Communication 304/504. Advanced Argumentation and Persuasion. Two credits. Projects in analysis, research, ordering of arguments and evidence, refutation, composition, and delivery. Prerequisite: Consent of instructor.

Communication 307/507. Psychology of Speech. Three credits. Principles of

psychology as they apply to speech, with emphasis on experimental research.

Communication 312/512. Speech Composition. Three credits. Speech composition, with emphasis on theory of style, models of speech composition, and practice in speech writing and delivery.

Communication 317/517. Directing High School Forensics and Debate. Two credits. Prerequisite: Communication 126 or 326.

Communication 318/518. Directing High School Mass Communication Activities. Two credits. Problems and methods of supervising high school radio, TV, film, newspaper and yearbook activities. Prerequisite: Communication 127 or 327.

Communication 320/520. Group Discussion. Three credits. Recognition and definition of problems, critical analysis, possible solution; the function of discussion in our society.

Communication 321. Evolution of American Media. Three credits. A historical study of the development and regulation of the mass media in America, with special emphasis on the interrelationships among the various media.

Communication 324/524. Theory of Speech Criticism. Three credits. Introduction to the basic concepts, terminology, methods, and literature of rhetorical criticism, classical and modern.

Communication 325. Promotional Communication. Three credits. Application of communication principles to methods used by individuals and institutions to relate to their respective publics.

Communication 326. Communication Activities: Debate-Forensics. One credit. Directed experience in debate and forensics, by special arrangement with the instructor. (May be repeated.)

Communication 327. Communication Activities: Media. One credit. Directed experience in film, radio, TV, newspaper, and yearbook production, by special arrangement with the instructor. (May be repeated.)

Communication 330/530. Business and Professional Communication. Two or three credits. Basic issues or problems in business and professional communication; emphasis on the case method and laboratory experience.

Communication 331/531. Print Laboratory. Three credits. Training in the forms of print communication with variable focus on writing, layout, and design. Focus will be specialized each time the laboratory is scheduled; may be repeated. Prerequisite: Consent of the instructor.

Communication 332/532. Television Laboratory. Three credits. Training in the forms of television communication with variable focus on writing, editing, producing, directing. Focus will be specified each time the laboratory is scheduled; may be repeated. Prerequisite: Consent of the instructor.

Communication 333/533. Radio Laboratory. Three credits. Training in the forms of radio communication with variable focus on writing, reporting, producing, directing. Focus will be specified each time the laboratory is scheduled; may be repeated. Prerequisite: Consent of instructor.

Communication 334/534. Film Laboratory. Three credits. Training in the forms

of film communication with variable focus on writing, editing, producing, directing. Focus will be specified each time the laboratory is scheduled; may be repeated. Prerequisite: Consent of the instructor.

Communication 350/550. Media Law. Three credits. Regulations, laws, conventions governing the mass communication media, with attention to principles common across media and unique to film, broadcast, or print industries.

Communication 352/552. Media History. Three credits. In-depth investigation of the development of particular mass communication media. Variable focus on print, broadcasting, or film; emphasis will be specified each time the course is offered. May be repeated.

Communication 365/565. Writing for the Media. Three credits. Intensive preparation in writing and specific media contexts: news features, scientific reports, documentaries, and others. Prerequisite: Consent of the instructor.

Communication 372/572. Communication Theory. Three credits. Analysis and application of philosophical, behavioral, and other conceptual frameworks in communication theory.

Communication 375/575. Mass Communication Seminar. Three credits. Variable focus on such topics as international communication, literary journalism, film aesthetics, radio-television programming. Topics will be specified each time the seminar is offered. May be repeated.

Communication 380/580. Perspectives in Communication Education. Three credits. Philosophies of communication education; its leading practitioners and contemporary issues.

Communication 390/590. Seminar. Three credits. Study and discussion of a new development, special problem, or area of interest in the field of communication. A subtitle will indicate the emphasis each time the course is offered. Prerequisite: Consent of instructor.

Communication 400/700. Communication and Natural Resources. Three credits. Research report writing for professional journals, technical writing for the general audience, and outdoor writing on such activities as hunting, fishing, and camping, with attention to media techniques and case studies. Prerequisite: Consent of the instructor.

Communication 499. Special Work. Upper class students majoring or minoring in Communication may, by agreement with the chairman of the Communication Department, arrange for a special out-of-class work, for which credit may be allowed on the basis of one for each week, or its equivalent, devoted exclusively to a special project.

Communication 701. Foundations of Oral Communication. Three credits. The nature and criticism of oral communication with application of theory to student performance. Selected classical and contemporary examples. Prerequisite: an introductory course in Communication.

Communication 710. Introduction to Graduate Study. Three credits. Graduate disciplines, techniques, and resources of graduate research in Communication.

Communication 712. British Public Address. Two credits. A historical and critical treatment of leading British speakers and their speeches.

Communication 714. American Public Address. Two credits. A historical and critical treatment of leading American speakers and their speeches.

Communication 720. Studies in Interpersonal Communication. Three credits. Readings and discussion on problems in small group and face-to-face communication situations.

Communication 730. Theories of Mass Communication. Three credits. Readings and discussions on problems in the theories of mass communication.

Communication 738. Contemporary Public Address. Three credits. A historical

and critical study of selected spokesmen and their addresses, 1940 to present.

Communication 770. Seminar in Rhetoric and Public Address. Three credits. Problems in rhetoric and public address.

Communication 796. Independent Study. One to three credits. Planned study designed to enrich and supplement the student's preparation in his area of specialization. Regularly scheduled conferences with a staff supervisor.

Communication 799. Thesis.

Graduate courses in **DRAMA** are also available as electives in the program for the Master of Arts in Teaching and the Master of Science in Teaching degrees in Communication.

NOTE: Graduate courses in **DRAMA** are also available as electives in the program for the Master of Arts in Teaching and the Master of Science in Teaching degrees in **COMMUNICATION**.

COMMUNICATIVE DISORDERS

Mr. Gerald Johnson, Assistant Dean of the School of Communicative Disorders; Mr. Aylesworth, Miss Karen Carlson, Mr. Chappell, Mr. Curtis, Mr. Thomas Jensen; Mr. Leonard, Mr. Lowell, Mr. Meyer, Mr. Nash, Mr. David Nelson, Mr. Nix, Miss Tufts, Mr. Tyszka, Mr. Wentland.

A student majoring in **Communicative Disorders** and/or **Education of the Deaf** must be advised by a faculty member in the School of Communicative Disorders. The student has three options: (1) education certification by the School of Education in Communicative Disorders, (2) a major in the College of Professional Studies in Communicative Disorders, or (3) education certification in Education of the Deaf. No minor is available.

A. A broad-field major in Communicative Disorders for education certification consists of 54 credits selected from Communicative Disorders and Psychology. The following are required:

1. Communicative Disorders 108 and/or 266, 260, 262, 264, 351, 361, and 495; additional courses to total at least 34 credits.
2. Psychology 200, 250, and 260.

3. Eleven credits from Communicative Disorders and Psychology so as to total 54 credits.

The following are required to meet requirements for teacher certification: Education 329, 351, 381, 383, and 398.

B. A major in Communicative Disorders (College of Professional Studies) consists of the following: Communicative Disorders 108 and/or 266, 260, 262, 264, 351, 361, and 495, and additional courses to total at least 34 credits in Communicative Disorders. This major does not meet the State of Wisconsin certification requirements in Wisconsin public schools.

A student who elects option A or B, above, will **NOT** be recommended for employment until he receives a Master's degree in Communicative Disorders.

C. A major in Education of the Deaf is described under the heading "Education of the Deaf" later in this section of the catalog.

Students will be required to maintain an academic record that is consistent with school standards, and they must achieve proficiency as speech and hearing clinicians. Students who do not meet these standards will not be considered as majors by the school.

Remedial Speech and Hearing Service

Clinical therapy is available for students who have a speech and/or hearing problem. Students in need of this remedial service may contact or be referred to the Center for Communicative Disorders for consultation, diagnosis, and/or therapy.

Courses in Communicative Disorders were formerly designated as courses in Speech Pathology and Audiology.

D. The Master of Science Degree—Communicative Disorders is described in the section of the catalog on THE GRADUATE COLLEGE.

Communicative Disorders 108. Introduction to Communicative Disorders. Three credits. Introduction to the problems of articulation, voice, stuttering, cleft palate, aphasia, cerebral palsy, delayed speech, mental retardation, and hearing loss.

Communicative Disorders 260. Introduction to Phonetics. Three credits. Descriptive and scientific analysis of speech; study and use of the International Phonetic Alphabet, training in auditory discrimination, transcription skill, and the scientific measurement of

speech. Prerequisite: Sophomore standing.

Communicative Disorders 262. Articulation Disorders. Three credits. Etiology and diagnosis of articulation disorders; examination of the principles of therapy and their application in therapy procedures. Prerequisite: Sophomore standing.

Communicative Disorders 264. Speech and Hearing Science. Five credits. Developmental and gross anatomy and physiology of the human systems per-

taining to speech and hearing, including dissections of comparative specimens. Three hours lecture, four hours laboratory per week. Prerequisite: Sophomore standing.

Communicative Disorders 266. Normal Development of Speech, Language, and Hearing. Three credits. Receptive and expressive aspects of normal development of speech, language, and hearing studied in detail. Prerequisite: Sophomore standing.

Communicative Disorders 295. Practicum. One or two credits. Practical experience in the use of diagnostic procedures and examination routine used in the Speech and Hearing Clinic. Practicum will include observation and/or supervised therapy with speech and/or hearing defective persons. At least 45 hours of clinical practice will be required for each credit. Prerequisite: Sophomore standing.

Communicative Disorders 307. Psychology of Speech. Three credits. Principles of psychology as they apply to speech, with emphasis on experimental research.

Communicative Disorders 349. Communications and Interpreting for the Deaf. Three credits. Manual communications and fingerspelling as used by the deaf; historical and contemporary development of manual communications; interpreting, and fingerspelling; performance skills in the "simultaneous method" with laboratory experiences in visual English, social communications, instructing, and interpreting.

Communicative Disorders 350/550. Summer Camp for the Deaf and Hearing Impaired. Four to six credits. Topical information and practicum experience;

topics for discussion will include counseling, guidance, play techniques, natural language development, and adaptive speech and hearing procedures. Prerequisite: Physical Education 241 or consent of instructor.

Communicative Disorders 351/551. Basic Procedures of Audiology and Audiometry. Three credits. Nature of hearing; measurement and evaluation of hearing acuity; supervised testing.

Communicative Disorders 352/552. Hearing Rehabilitation I: Lipreading. Three credits. History, methods, materials, and research pertaining to lipreading.

Communicative Disorders 353/553. Hearing Rehabilitation II: Auditory Training. Three credits. History, methods, materials, and research pertaining to auditory training.

Communicative Disorders 354/554. Audiometry. Three credits. Techniques utilized in evaluating the auditory function; pediatric, geriatric, G.S.R., Bekesy, and speech audiometry. Prerequisite: Communicative Disorders 351.

Communicative Disorders 355/555. Language for the Deaf and Hearing Impaired. Three credits. Principles and methods of developing language skills; vocabulary development, English composition, development of receptive and expressive oral and written language.

Communicative Disorders 356/556. Language for the Deaf and Hearing Impaired. Three credits. A continuation of Communicative Disorders 355.

Communicative Disorders 357/557. Speech for the Deaf and Hearing Impaired. Four credits. Multisensory approach for the teaching of speech; ar-

tication, voice, sentence rhythm, ear training utilizing residual hearing, kinesis, visual skills, and speech intelligibility.

Communicative Disorders 358/558. Methods of Teaching the Deaf and Hearing Impaired. Four credits. Methods of teaching in group and individual situations; subject matter in reading, writing, social studies, arithmetic, science, language arts, and physical education as it applies to special techniques for the deaf; demonstrations and observations of methods; vocational training studied.

Communicative Disorders 359/559. History, Philosophy, and Program Development of Deaf Education. Three credits. Theories and practices in curriculum planning with emphasis on traditional and experimental programs.

Communicative Disorders 360/560. Organic Speech and Language Disorders. Three credits. Etiology and symptomatology of organic speech and language disorders that result in communication problems of children and adults, with emphasis on cerebral palsy, adult aphasia, and related communicative disorders.

Communicative Disorders 361/561. Stuttering: Theories and Therapies. Three credits. Intensive study of causes and treatment of stuttering; practicum required.

Communicative Disorders 362/562. Introduction to Language Learning Disabilities. Three credits. Abnormal language development and resultant language disabilities of children with emphasis on children with mental retardation, developmental aphasia, cultural deprivation, psychogenic deafness, Strauss Syndrome, dyslexic reading disability, dysgraphic writing disability,

dyscalculic arithmetic disability, and other related language disorders; general language therapy principles and procedures. Prerequisite: Communicative Disorders 266.

Communicative Disorders 379/579. Voice Disorders. Three credits. Disorders of the various dimensions of the voice; functional and organic etiologies; diagnosis and therapy procedures. Prerequisite: Consent of the instructor.

Communicative Disorders 380/580. Communicative Disorders in School Children. Three credits. Examination of the various communicative disabilities and pertinent literature. Designed for teachers and school administrators. Not open to majors in Communicative Disorders or those with credit in Communicative Disorders 108.

Communicative Disorders 490. Senior Seminar. Three credits. Required of all majors in Communicative Disorders. Each student will be required to identify and investigate a problem for further study. Class meetings will be devoted to individual and group discussions of current problems and research in Communicative Disorders. Prerequisite: Consent of instructor.

Communicative Disorders 495/695. Advanced Practicum. One to four credits. Advanced clinical experience in diagnosis, testing and therapy with speech and/or hearing defective persons in the Speech and Hearing Clinic. At least 45 hours of clinical practice will be required for each credit. Prerequisite: Consent of instructor.

Communicative Disorders 499. Special Work. Upper class students majoring in Communicative Disorders may, by agreement with the Assistant Dean of the School of Communicative Disorders, ar-

range for special out-of-class work for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

Communicative Disorders 710. Seminar in Communicative Disorders. Three credits. Scientific inquiry into the clinical processes; heritage and literature of the profession.

Communicative Disorders 711. Speech and Hearing Science. Three credits. Psychological, acoustical, anatomical, and physiological characteristics of normal speech and hearing; basic laboratory techniques for evaluating these factors.

Communicative Disorders 712. Advanced Speech and Hearing Science. Four credits. Experimental literature and experimentation dealing with speech production, transmission, and perception.

Communicative Disorders 725. Advanced Study in Stuttering. Two credits. Research, theories, and therapies regarding stuttering behavior in children and adults.

Communicative Disorders 730. Speech Habilitation in Cerebral Palsy. Three credits. Etiologies, symptomatology, and special learning problems in cerebral palsy; emphasis on the complexity of the evaluative procedure and the neurological basis of therapy in speech habilitation; consideration of the variety of services available to the cerebral palsied.

Communicative Disorders 732. Language Theories. Three credits. The nature of language learning and acquisition from several theoretical viewpoints related to dynamic psycholinguistic aspects of language behavior.

Communicative Disorders 733. Language Therapy I. Three credits. Respective therapeutic goals, materials, techniques, and methods for fostering the development of communication skills of children with developmental aphasia, psychogenic deafness and muteness, the Strauss Syndrome, maturational delay of language, and related disorders of language.

Communicative Disorders 734. Language Therapy II. Three credits. Respective therapeutic goals, materials, techniques, and methods for fostering the development of communication skills of children with mental retardation, cultural language deprivation and deficiency, dyslexia, dysgraphia, dyscalculia, and related disorders of language.

Communicative Disorders 735. Advanced Studies in Voice Pathology. Three credits. Pathologies and dysfunctions producing organic and functional voice disorders; consideration of both medical and vocal rehabilitation.

Communicative Disorders 740. Aphasia and Related Language Disorders. Three credits. The nature, etiologies, and principles of the treatment of adult language disorders resulting from brain damage and mental retardation.

Communicative Disorders 745. Advanced Methods in Articulatory Pathology. Three credits. An analysis of the diagnosis and treatment of articulatory pathology; special consideration given to measurements in articulatory assessment and therapeutic planning.

Communicative Disorders 750. Aural Rehabilitation and Hearing Aids. Three credits. Theories, principles, and methods related to lipreading, auditory training, speech conservation, and hearing aid orientation and selection; considera-

tion of the role of residual hearing and special speech problems of the aurally impaired person.

Communicative Disorders 755. Pathologies of the Auditory Mechanism. Two credits. Pathologies of the ear and their effect on auditory function; the reflection of pathologies in audiometric data and consideration of medical therapeutics.

Communicative Disorders 760. Advanced Clinical Audiometry. Four credits. Differential diagnosis of auditory disorders through special tests for conductive, cochlear, and retrocochlear dysfunctions; traditional and experimental techniques are studied and compared.

Communicative Disorders 765. Theories of Hearing. Four credits. Psychoacoustic and bioacoustic aspects of hearing; the nature of auditory stimuli and perceptual behavior; consideration of the system for pitch identification and discrimination, intensity levels, localization, and other factors. Student investigations are required.

Communicative Disorders 766. Problems of the Deaf and Hearing Impaired. Three credits. Contemporary problems and an analysis of the research pertaining to the deaf and hearing impaired.

Communicative Disorders 767. Differential Diagnosis of the Deaf, Language, and Hearing Impaired. Three credits. Methods and techniques utilized in differentiation of deafness, childhood apha-

sia, mental retardation, emotional disorders, language dysfunctions, and perceptual difficulties.

Communicative Disorders 768. Guidance and Counseling of the Deaf and Hearing Impaired. Three credits. Problems concerning the management of the deaf and hearing impaired in relationship to their educational, vocational, social, and emotional adjustments within the home, school, and community.

Communicative Disorders 795. Workshops in Communicative Disorders. Three to six credits. The course content of these workshops is designed to expand the course content of the graduate program. Individual and/or group projects will be required. The workshops may be repeated for credit as the course content changes. (Identification Audiometry; Pediatric Audiometry; Acoustic Problems in the Community, Industry, and the Military; Hearing Aids; Mental Retardation; Preschool Language; Stuttering in Children; Stuttering in Adults; Cleft Palate; Laryngectomy; Research in Communicative Disorders; Public School Speech and Hearing Services.)

Communicative Disorders 796. Independent Study. One to three credits. Planned study designed to enrich and supplement the student's preparation in Speech Pathology, Audiology, Language Disabilities, Education of the Deaf, and Speech and Hearing Science.

Communicative Disorders 799. Thesis. Two to six credits.

COMPARATIVE LITERATURE

The minor in Comparative Literature is administered by the Department of Foreign Languages and Comparative Literature.

A minor in Comparative Literature consists of the following:

1. Comparative Literature 101 and 102—six credits.
2. Six credits in advanced literature courses in which the student must do the reading in a language other than his native language.
3. Comparative Literature 399.
4. Additional courses in Comparative Literature and English to total twenty-one credits, as follows:
 - a. At least twelve credits in Comparative Literature courses.
 - b. Additional credits selected from English 310, 312, 319, 361, 362, 372, 380.

Comparative Literature 101. Masterpieces of the Western World. Three credits. Selected readings in western literature from Homer to Montaigne, for a general understanding of the artistic achievement of the writers involved and the student's literary heritage.

Comparative Literature 102. Masterpieces of the Western World. Three credits. An extension of Comparative Literature 101; readings from Milton to Mann.

Comparative Literature 231. Survey of Dramatic Literature. Three credits. Tragedy: styles, theories, and literature of world drama; emphasis on the classic heritage; representative plays studied in the context of their times. Prerequisite: Sophomore standing or consent of instructor.

Comparative Literature 232. Survey of Dramatic Literature. Three credits. Same as Comparative Literature 231, covering comedy. Prerequisite: Sophomore standing or consent of instructor.

Comparative Literature 240. Literature of the Bible. Three credits. A critical analysis of the Bible as literature. Prerequisite: Sophomore standing.

Comparative Literature 250. Oriental Literature. Three credits. Selected readings in narrative, dramatic, philosophic, and lyric literature of China, India, and Japan.

Comparative Literature 300. Classical Poetry. Three credits. Selected readings from the poetry of Homer, Sappho, Pindar, Anacreon, Theocritus, Lucretius, Catullus, Vergil, and Horace.

Comparative Literature 301. Classical Prose. Three credits. Selected readings from the prose of Plato, Aristotle, Livy, Cicero, Plutarch, Tacitus, Petronius, Suetonius, and Marcus Aurelius.

Comparative Literature 302. Medieval Literature. Three credits. Selected readings from English, French, German, and Spanish medieval literature: epics, lyric poetry, and drama. The area of concentration will be specified each time the course is offered.

Comparative Literature 303. Literature of the Renaissance. Three credits. Selections from the works of such writers as Petrarch, Erasmus, Castiglione, Machiavelli, Rabelais, Cellini, Montaigne, and Cervantes.

Comparative Literature 317. The Novel Before 1850. Three credits. Selections from the works of such writers as Cervantes, Lyly, Nash, Voltaire, Goethe, Hoffman, Balzac, Stendahl, Gogol, and Mansoni, with major emphasis on evolution of form and theme.

Comparative Literature 321. French Literature in Translation. Three credits. Selected readings from the seventeenth and eighteenth centuries.

Comparative Literature 322. French Literature in Translation. Three credits. Selected readings from the nineteenth and twentieth centuries.

Comparative Literature 323. German Literature in Translation. Three credits. Selected readings from the eighteenth to the mid-nineteenth centuries.

Comparative Literature 324. German Literature in Translation. Three credits. Selected readings from the late nineteenth and twentieth centuries.

Comparative Literature 327. Spanish Literature in Translation. Three credits. Selected readings from the Renaissance and neo-classical literature.

Comparative Literature 328. Spanish Literature in Translation. Three credits.

Selected readings from the nineteenth and twentieth centuries.

Comparative Literature 330. Pre-Revolution Russian Literature in Translation. Three credits.

Comparative Literature 331. Post-Revolution Russian Literature in Translation. Three credits.

Comparative Literature 350. Special Problems. Two or three credits. Special focus on one of the following: a non-English writer; a comparative study of two writers; a literary group or genre; a recurrent theme in literature. A subtitle indicating the focus will be added each time the course is offered; any needed foreign language preparation will be indicated. Prerequisite: Language preparation by the student for the problem to be handled.

Comparative Literature 399. Special Work. Upper class students minoring in Comparative Literature may, by agreement with their adviser, arrange for special out-of-class work for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project. Prerequisite: language preparation by the student for the work to be handled.

COMPUTER SCIENCE

Courses in Computer Science are administered by the Mathematics Department.

A minor in Computer Science consists of 24 credits, including Computer Science 106 (which may be waived for students who demonstrate proficiency in basic FORTRAN programming); Mathematics 224, or 110 and 111; Computer Science 226, or Mathematics 213; Computer Science 229, 301, and 310. The remaining six credits will be selected from one or both of the following groups; however, no more than one course from Group A may be applied toward the minor:

A. Economics 433, Mathematics 225 (may not be applied toward the minor in Computer Science by Mathematics majors), Psychology 300.

B. Business 320; Computer Science 312, 390, 499; Mathematics 360.

Computer Science 106. Elementary Mathematical Programming. Two credits. Introduction to digital computing; FORTRAN as basic language; emphasis on programming logic and algorithms for problems drawn from elementary mathematics. Prerequisite: Mathematics 105 or eligibility for Mathematics 107.

Computer Science 226. Finite Mathematics. Three credits. Topics in logic, probability and matrices. Mathematics 213 and Computer Science 226 may not both be taken for credit. Prerequisite: Mathematics 224, or eligibility for Mathematics 110.

Computer Science 229. Introduction to Computer Programming. Three credits. Stored programs; data storage; overflow; addressing; assembler language. Not open to students who have credit in Mathematics 29. Prerequisite: Computer Science 106, or consent of the chairman of the department.

Computer Science 301. Introduction to Information Structures. Three credits. Development in processing of data bases; sorting; searching and retrieval against the developed file; transformation and referencing. Prerequisite: Computer Science 226 and 229 or consent of the chairman of the department.

Computer Science 310. Algorithmic Languages for Digital Computers. Three credits. Structure and facilities of current algorithmic procedure oriented languages, and their implementation, operation, and use in an operating systems environment. Prerequisite: Computer Science 106 and 229.

Computer Science 312. Computer and Programming Systems. Three credits. Design and assembly systems, program intercommunication, input-output control systems, debugging systems, structure of programming and data libraries. Prerequisite: Computer Science 106 and 229.

Computer Science 390. Special Topics in Computer Science. Two or three credits. Topic and number of credits will be announced in the time table. Prerequisite: Consent of the chairman of the department.

Computer Science 499. Special Work. Upper class students in Computer Science may, by agreement with the chairman of the Mathematics Department, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

COOPERATIVE EDUCATION

Mr. Graver, Coordinator

Students participating in the Cooperative Education Program will devote from three to five periods (either semesters or summer sessions) in full-time training experiences in work related to their academic major or career goals.

Co-op students are required to register for those periods, but they receive no academic credit. Registration means that a record of the work experience will be

entered on the permanent record of participating students, and that they have the status of full-time students during the work period.

Cooperative Education 001. First Work Period. No credit. Prerequisite: Approval by the Coordinator's office and by the Chairman of the student's major department; acceptance by the employing organization.

Cooperative Education 002. Second Work Period. No credit. Prerequisite: Satisfactory completion of Cooperative Education 001; approval by the Coordinator's office and by the Chairman of the student's major department; acceptance by the employing organization.

Cooperative Education 003. Third Work Period. No credit. Prerequisite: Satisfactory completion of Cooperative Education 002; approval by the Coordina-

tor's office and by the Chairman of the student's major department; acceptance by the employing organization.

Cooperative Education 004. Fourth Work Period. No credit. Prerequisite: Satisfactory completion of Cooperative Education 003; approval by the Coordinator's office and by the Chairman of the student's major department; acceptance by the employing organization.

Cooperative Education 005. Fifth Work Period. No credit. Prerequisite: Satisfactory completion of Cooperative Education 004; approval by the Coordinator's office and by the Chairman of the student's major department; acceptance by the employing organization.

DANCE

Courses in Dance are taught by members of the Drama Department, which also administers the minor in Dance. Courses in Dance may also meet requirements in Drama and in Physical Education. See the appropriate entries under Drama and Physical Education.

- A. A minor in Dance (modern dance emphasis)** consists of Dance 101, 105, 302, and at least four credits of 309; eight credits selected from Dance 103, 104, 218, 219, 303, and 304; and four credits selected from Dance 301, 410, Dance Education 220 and 420. (Total: 24 credits.)
- B. A minor in Dance (ballet emphasis)** consists of Dance 101, 103, 302, and at least four credits of 309; eight credits selected from Dance 105, 106, 205, 206, 305, and 306; and four credits selected from Dance 301, 410, Dance Education 220 and 420. (Total: 24 credits.)
- C. A minor in Dance for Teacher Certification** consists of 26 credits:
1. Dance 101, 216, 302, at least four credits of 309; Dance 103 (for students choosing the ballet option), or Dance 105 (for students choosing the modern dance option); Dance Education 217, 220, 420.
 2. Eight credits selected from **one** of the following options:
 - a. Modern Dance: Dance 103, 104, 218, 219, 303, and 304.
 - b. Ballet: Dance 105, 106, 205, 206, 305, and 306.

Any Dance course selected in lieu of Physical Education 101 must be counted as

a required Physical Education course in meeting requirements for a degree, and can **not** also be counted in the other 120 credits required.

Students minoring in Dance must complete 120 credits for graduation **plus** sufficient credits to meet the general Physical Education requirement.

Dance 101. History and Appreciation of Dance. Three credits. Cultural history of dance, theory and philosophy of dance, and laboratory experience in dance technique. Two hours lecture, one and one-half hours laboratory per week.

Dance 103. Beginning Modern Dance I. Two credits. Modern dance technique, composition, and improvisation. Three hours per week. One credit of Dance 103 may be used toward the Physical Education requirement.

Dance 104. Beginning Modern Dance II. Continuation of Dance 103. Three hours per week. One credit of Dance 104 may be used toward the Physical Education requirement. Prerequisite: Dance 103, or consent of instructor.

Dance 105. Beginning Ballet I. Two credits. Instruction in basic barre exercises and floor work. Three hours per week. One credit of Dance 105 may be used toward the Physical Education requirement.

Dance 106. Beginning Ballet II. Two credits. Continuation of Dance 105, with the addition of floor progressions and combinations. Three hours per week. One credit of Dance 106 may be used toward the Physical Education requirement. Prerequisite: Dance 105, or consent of instructor.

Dance 108. Folk and Square Dance. One credit. Instruction in beginning international folk dance. Two hours per week. May be used toward the Physical Education requirement.

Dance 110. Social Dance. One credit. Instruction in beginning ballroom dance. Two hours per week. May be used toward the Physical Education requirement.

Dance 205. Intermediate Ballet I. Two credits. Continuing instruction in barre and center floor combinations. Four hours per week. May be repeated once, with consent of instructor, for a total of four credits. One credit of Dance 205 may be used toward the Physical Education requirement. Prerequisite: Dance 106, or consent of instructor.

Dance 206. Intermediate Ballet II. Two credits. Continuation of Dance 205. May be repeated once, with consent of instructor, for a total of four credits. One credit of Dance 206 may be used toward the Physical Education requirement. Prerequisite: Dance 205, or consent of instructor.

Dance 211. Specialty Dance and Stage Movement. Two credits. Theatrical dance forms and period styles of movement. Three hours per week. Open only to Dance minors and Drama majors and minors, or by consent of instructor. One credit of Dance 211 may be used toward the Physical Education requirement.

Dance 216. Fundamentals of Rhythm and Dance. One credit. Instruction in rhythmic structure of music and movement basic to dance forms. Two hours per week. Prerequisite: Sophomore standing.

Dance 218. Intermediate Modern Dance

I. Two credits. Instruction in modern dance technique, composition, and improvisation. Four hours per week. May be repeated once, with consent of instructor, for a total of four credits. One credit of Dance 218 may be used toward the Physical Education requirement. Prerequisite: Dance 104, or consent of instructor.

Dance 219. Intermediate Modern Dance II. Two credits. Continuation of Dance 218. Four hours per week. May be repeated once, with consent of instructor, for a total of four credits. One credit of Dance 219 may be used toward the Physical Education requirement. Prerequisite: Dance 218, or consent of instructor.

Dance 227. Dance Workshop. One to six credits. Dance training in workshops and institutes. The workshop area of concentration will appear as a subtitle each time the course is offered. Prerequisite: Sophomore standing; open to freshmen by consent of instructor and Chairman of the Department.

Dance 301. Pantomime. Three credits. Instruction in pantomime technique, composition, and improvisation. Four hours per week. Prerequisite: Dance 206 or 219, or Drama 272, or consent of instructor.

Dance 302. Dance Composition I. Three credits. Experience in creative manipulation of the basic elements of movement into brief choreographed forms. Four hours per week. Prerequisite: Consent of instructor; sophomores may enroll with special permission of instructor and Chairman of the Department.

Dance 303. Advanced Modern Dance I. Two credits. Instruction in modern dance technique, composition, and improvisation. Four hours per week. May

be repeated twice, with consent of instructor, for a total of six credits. One credit of Dance 303 may be used toward the Physical Education requirement. Prerequisite: Consent of instructor.

Dance 304. Advanced Modern Dance II. Two credits. Continuation of Dance 103. Four hours per week. May be repeated twice, with consent of instructor, for a total of six credits. One credit of Dance 304 may be used toward the Physical Education requirement. Prerequisite: Consent of instructor.

Dance 305. Advanced Ballet I. Two credits. Instruction in advanced ballet techniques and combinations. May be repeated twice, with consent of instructor, for a total of six credits. One credit of Dance 305 may be used toward the Physical Education requirement. Prerequisite: Consent of instructor.

Dance 306. Advanced Ballet II. Two credits. Continuation of Dance 305. May be repeated twice, with consent of instructor, for a total of six credits. One credit of Dance 306 may be used toward the Physical Education requirement. Prerequisite: Consent of instructor.

Dance 309. Dance Theatre. Two credits. Performance experience in ballet and modern dance. Four hours per week. May be repeated twice, with consent of instructor, for a total of six credits. One credit of Dance 309 may be used toward the Physical Education requirement. Prerequisite: Audition with instructor; open to sophomores by consent of instructor and Chairman of the Department.

Dance 399. Special Work. One to six credits. Students may, by agreement with the instructor and the Chairman of

the Drama Department, arrange for special out-of-class work on individual or group projects, for which credit may be given on the basis of one credit for every week, or its equivalent, devoted exclusively to the project. Subtitle will be listed each time the course is offered.

Dance 410. Dance Production. Three credits. Instruction and practical experience in all aspects of the theatrical production of dance. Three hours per week. Prerequisite: Consent of instructor; open to juniors by special permission of instructor and Chairman of Department.

DANCE EDUCATION

Dance Education 217. Methods of Teaching Recreational Dance. One credit. Techniques of teaching social and folk dance. Two hours per week. Prerequisite: Dance 216.

Dance Education 220. Dance in the Elementary School. One credit. Instruction in dance forms basic to a balanced elementary school physical education program. Two hours per week. Prerequisite: Sophomore standing.

Dance Education 327. Dance Workshop.

One to six credits. Advanced training in Dance Education workshops and institutes. The workshop area of concentration will appear as a subtitle each time the course is offered. Prerequisite: Consent of instructor.

Dance Education 420. Dance Practicum. Two credits. Controlled experience in teaching dance. Three hours per week. Prerequisite: Consent of instructor; open to juniors with special permission of instructor and Chairman of the Department.

DIETETICS

See **Home Economics**.

DRAMA

Mr. Faulkner, chairman; Mrs. Akenson, Mr. Baruch, Mrs. Bridgeman, Mr. Crandell, Mrs. Faust, Miss Hover, Mrs. O'Keefe, Mrs. Pruett, Mr. Schmitt.

A. A major in Drama consists of forty-five credits, of which thirty-six shall be in Drama courses, as listed below:

1. Drama 130, 171, 240, 375—twelve credits.
2. Twelve to fifteen credits from the following areas: Aesthetics of Theatre, Drama Theory and Criticism, Dramatic Literature, History of Theatre, Playwriting.
3. Nine to twelve credits from the following areas: Acting, Children's Theatre, Creative Dramatics, Directing, Dance/Movement, Oral Interpretation, Technical Theatre, Theatre Management.

Since the Drama department expects majors to participate in departmental productions, optional credit for such participation is available for all students. Students may enroll in Drama 226 for a total of two credits, in Drama 326 for a total of two credits, and in Drama 426 for a total of two credits.

4. A minimum of nine credits is required in one or more of the following: Art, Communication, History, Literature, Music, Philosophy, Psychology.

B. An Interdepartmental major in Communication and Drama for teacher certification consists of 39 credits, 14 of which must be in courses numbered 300 or above. The following are required:

1. Drama 130, 171, 240, 375; three credits of Drama electives.
2. Communication 101 or equivalent; Communication 317 or 318; Drama 382; Communication or Drama electives (three or more credits) selected to satisfy the Humanities requirement.
3. Communications 228, 303, 312 or 324, 320; three credits of Communication electives.

(This major satisfies certification requirements in the academic area designated **Speech** by the Wisconsin Department of Public Instruction.)

C. A minor in Drama consists of 22 credits, including Drama 130, 171, 240, and 375; and ten elective credits chosen with courses from both Groups 2 and 3, as listed under the major. Students seeking teacher certification and electing this (non-certifiable) minor in Drama will be required to have Drama 382.

D. A minor in Drama with emphasis in Dance consists of 22 credits, including Drama 130, 171, 240, 375 (three credits in dance composition may substitute for Drama 375); and ten credits chosen from Group 2 and/or Group 3, as listed under the major, of which at least six credits must be in the area of dance/movement.

Drama 105. Appreciation and History of Theatre. Three credits. A survey of the development of theatre including the modern media of television and motion pictures; emphasis on preparation for intelligent criticism as a member of an audience.

Drama 126. Laboratory Work (Dramatics and Forensics). One credit. Practical work in dramatics or forensics by special arrangement with the instructor. May be repeated for a maximum of two credits.

Drama 129. Drama Workshop. One to

six credits. A program designed to provide the student with intensive laboratory experience. The workshop's area of concentration will appear as a subtitle each time the course is offered.

Drama 130. Introduction to Interpretative Reading. Three credits. Fundamentals of oral interpretation.

Drama 132. Voice and Diction. Two credits. Improvement of the speaking voice, analysis and correction of poor speech patterns, and the study of syllabification and word emphasis to convey meaning more clearly.

Drama 171. Theories and Techniques of Acting I. Three credits. Fundamentals of acting; character analysis; techniques and practice; relation of the role to the play as a whole. Four hours per week.

Drama 172. Theories and Techniques of Acting II. Three credits. Continuation of Drama 171, with emphasis on character development. Four hours per week. Prerequisite: Drama 171 or consent of instructor.

Drama 212. Forensic Activities. Three credits. Theory and practice for all public school forensic and dramatic activities; recommended for prospective teachers. Prerequisite: Sophomore standing or consent of the instructor.

Drama 213. Survey of Dramatic Literature (Tragedy). Three credits. Styles, theories and literature of world drama; emphasis on the classic heritage; representative plays studied in the context of their times. Prerequisite: Sophomore standing.

Drama 215. Survey of Dramatic Literature (Comedy). Three credits. Styles, theories, and literature of world drama; emphasis on the classic heritage; representative plays studied in the context of their times. Prerequisite: Sophomore standing.

Drama 226. Laboratory Work (Dramatics and Forensics). One credit. Practical work in dramatics or forensics by special arrangement with the instructor. This may be repeated for a maximum of two credits.

Drama 230. Interpretive Reading. Three credits. Principles and techniques of oral interpretation of modern forms of literature; Chamber Theatre and Read-

er's Theatre. Prerequisite: Drama 130, or consent of instructor.

Drama 240. Elements of Stagecraft. Three credits. Elementary theory and practice in the technical aspects of theatre. Prerequisite: Sophomore standing.

Drama 242. Stage Lighting. Three credits. Theory and practice in the application of methods and principles of lighting for theatrical production. Two hours lecture, two hours laboratory per week. Prerequisite: Drama 240, or consent of instructor.

Drama 243. Stage Costume Design and Construction. Three credits. The study and application of the principles of design as applied to stage costume with emphasis on the drafting of patterns and construction of workable, stageworthy costumes. One hour lecture and four hours of lab per week. Prerequisite: Sophomore standing.

Drama 251. History of Theatre: Beginning through Renaissance. Three credits. Study of the development of the arts and techniques of the theatre from the beginning through the Renaissance. Prerequisite: Sophomore standing.

Drama 252. History of Theatre: Restoration through Twentieth Century. Three credits. Study of the development of the arts and techniques of the theatre from the Renaissance to the present. Prerequisite: Sophomore standing.

Drama 255. Introduction to Stage Costume. Three credits. Survey of the historical development and fundamental principles of the art of costuming for the stage in their relation to theory and practice. Two hours lecture, two hours lab per week. Prerequisite: Sophomore standing.

Drama 270. Stage Make-up. Two credits. The purpose and techniques of application of theatrical make-up; the use of make-up in the various theatrical media; emphasis on stage use. One hour lecture, two hours laboratory per week. Prerequisite: Drama 171, or consent of instructor.

Drama 271. Advanced Acting I. Three credits. Intensive study in the art of acting; emphasis on production, styles of acting, development of techniques, rehearsal problems. Four hours per week. Prerequisite: Drama 171 and 172, or Drama 171 and consent of instructor.

Drama 272. Advanced Acting II. Three credits. Continuation of Drama 271. Four hours per week. Prerequisite: Drama 271.

Drama 317/517. European Drama I. Three credits. An intensive study of the European Drama and Theatre; representative plays; theatre trends.

Drama 318/518. European Drama II. Three credits. Continuation of Drama 317. Prerequisite: Drama 317, or consent of instructor.

Drama 326. Laboratory Work (Dramatics and Forensics). One credit. Practical work in dramatics or forensics by special arrangement with the instructor. May be repeated for a maximum of two credits.

Drama 327/527. Fundamentals of Playwriting. Three credits. Basic elements of the playwriting process; idea, structure, theme, plot, characterization, dialogue, language; project writing and class criticism.

Drama 328/528. Advanced Playwriting. Three credits. Continuation of Drama

327, with emphasis on project writing and performance. Prerequisite: Drama 327, or consent of instructor.

Drama 340/540. Scene Design. Three credits. Theory and practice in scenic design; special projects. Four hours per week. Prerequisite: Drama 240.

Drama 375/575. Beginning Directing I. Three credits. Theory of directing; exercises in blocking and performance of scenes. Four hours per week. Prerequisite: Drama 171; also recommended that the student have Drama 240 and at least three credits in dramatic literature.

Drama 376/576. Beginning Directing II. Three credits. Practice in directing scenes and one-act plays; development of skills in directing. Four hours per week. Prerequisite: Drama 375, or consent of instructor.

Drama 382/582. Play Production in the Secondary School. Three credits. Simplified play production for the secondary school teacher; play selection, rehearsal, staging, publicity, budgeting; basic techniques of classroom performances of plays and readings. Not to be counted for the major or minor in Drama in the College of Fine Arts.

Drama 383/583. Creative Dramatics. Three credits. Philosophy and techniques of creative drama with emphasis on its relation to creative education in general.

Drama 399. Special Work. One to six credits. Upper class students majoring or minoring in Drama may, by agreement with the chairman of the Department of Drama, arrange for special work on individual or group projects, for which credit may be given on the basis of one credit for every week, or

its equivalent, devoted exclusively to the project.

Drama 410/610. Masters of the Theatre.

Two credits. An intensive study of one or more playwrights and/or designers and/or directors and/or actors. The subject will be determined by the instructor offering the course. A subtitle will be added each time the course is offered indicating the subject(s). (May be taken more than once for credit as subject matter changes.) Prerequisite: Senior standing, or junior standing and consent of the instructor.

Drama 412/612. Contemporary Theatre.

Three credits. A study of the American and European theatre of the last few years. Representative plays from the works of contemporary dramatists as well as analysis of current theatre trends. Prerequisite: Senior standing, or junior standing and consent of the instructor.

Drama 426/626. Laboratory Work (Dramatics and Forensics).

One credit. Practical work in dramatics or forensics by special arrangement with the instructor. May be repeated for a maximum of two credits.

Drama 429/629. Drama Workshop.

One to six credits. A program designed to provide the student with intensive laboratory experience. The workshop's area of concentration will appear as a subtitle each time the course is offered. Prerequisite: Senior standing, or junior standing and consent of instructor.

Drama 430/630. Classic Forms of Interpretation.

Two or three credits. Principles and techniques of interpreting classic forms of literature; choric reading choir. The third credit may be taken at the student's option to participate in a choric reading choir. Prerequisite: Sen-

ior standing, or junior standing and consent of instructor.

Drama 449/649. Special Technical Problems.

Three credits. Special projects and techniques of handling advanced technical theatre problems. Prerequisite: Drama 240, and any two of Drama 242, 243, and 340.

Drama 462/662. Dramatic Criticism.

Three credits. Criticism of forms and styles based on major ancient and modern theories; includes play analysis and production evaluation. Prerequisite: Senior standing, or junior standing and consent of instructor.

Drama 475/675. Advanced Directing I.

Three credits. Problems of directing with emphasis on full-length plays, including styles, forms, and production coordination. Four hours per week. Prerequisite: Drama 376, or consent of instructor.

Drama 476/676. Advanced Directing II.

Three credits. Continuation of Drama 475. Four hours per week. Prerequisite: Drama 475.

Drama 484/684. Children's Theatre.

Two credits. Selection, direction, and production of plays for children's audiences. Prerequisite: Senior standing, or junior standing and consent of the instructor.

Drama 490/690. Seminar in Theatre.

Three credits. Research and discussion of specialized areas of theatre and drama. A subtitle indicating the subject(s) will be added each time the course is offered; may be taken more than once for credit as subject matter changes. Prerequisite: Senior standing, or junior standing and consent of instructor.

Drama 702. Foundations of Dramatic Art. Three credits. An intensive study of theatre as an art and as a cultural force. The approach is an aesthetic and historical consideration of dramatic literature and the interpretative arts of the stage, motion picture, radio, and television.

Drama 725. Problems in Play Production. Three credits. A lecture-laboratory course in the directing and mounting of productions.

Drama 770. Seminar. Three credits. Selected studies and advanced theory in drama and interpretation. Subtitle indicating the subjects will be added

each term as course is offered. (May be taken more than once for credit as subject matter changes.)

Drama 785. Creative Drama for Children. Three credits. Survey of story materials; development of diction and bodily movements; characterization and improvisation.

Drama 796. Independent Study. One to three credits. Planned study designed to enrich and supplement the student's preparation in his area of specialization. Regularly scheduled conferences with a staff supervisor.

Drama 799. Thesis. Two to six credits.

EARLY CHILDHOOD EDUCATION

Mr. Fritschel in charge.

The major in Early Childhood Education is an interdisciplinary major administered by the Dean of the College of Professional Studies. It consists of:

A. Core courses to total 43 to 46 credits, as follows:

1. Education and Psychology, 22 credits: Education 242, 301, 381, and 10 credits of 398; Psychology 200.
2. Home Economics, 12 credits: Home Economics 101, or Art 101; Home Economics 261 or Psychology 260; Home Economics 351 or 353; Home Economics 361 or Education 241.
3. Required support courses—select nine credits in the Home Economics option, or 12 credits in the Elementary Education option: Communicative Disorders 266 (3 cr.), 380 (3 cr.); Education 351 (3 cr.), 353 (3 cr.); Physical Education 231 (3 cr.)—This course will also fulfill **two** credits of the general Physical Education requirement for a degree.

Select **either B. or C.:**

B. Home Economics option, 21 credits: Home Economics 104, 105, 211, 364, 366, 371, 467; Physical Education 252.

Vocational certification is optional. If elected, the following additional work is

required—Home Economics 394 (2 or 3 cr.), 395 (2 cr.), and Home Economics 793 or Education 383 (3 cr.).

The Provisional certificate requires 2,000 hours of work experience; and the Standard certificate requires three years of successful teaching and 4,000 hours of work experience.

C. Elementary Education option, 20 to 27 credits:

1. Education 349, five credits.
2. Elective options—select either a. or b.:
 - a. Completion of a minor in one of the following: Art, Biology, Dance, Drama, Music, Physical Education, Psychology, or Sociology and Anthropology.
 - b. Completion of a concentration of 15 credits in one of the minors listed in paragraph a. above; or completion of a concentration of 15 credits distributed among two or more of the fields listed in paragraph a., above, with no more than nine credits in any one field.

NOTE: The major in Early Childhood Education meets Wisconsin Teacher Certification requirements for Nursery-Kindergarten, but not for grades 1 through 8.

EAST CENTRAL EUROPEAN STUDIES _____

See **Russian and East Central European Studies**.

ECONOMICS AND BUSINESS _____

See also **Business** and **Business Administration**.

Mr. James Jensen, chairman; Mr. Adamski, Mr. Hiram Anderson, Mr. Asher, Mr. Christie, Mr. Dunigan, Mr. Earney, Mr. Farmer, Mr. Haferbecker, Mr. Haigh, Mr. Clifford Jacobsen, Mr. Kelch, Mr. Mabie, Mr. Matuska, Mr. Murans, Mr. Gerald O'Brien, Mr. Pelletier, Mr. Rothrock, Mr. Ryan, Mr. Sage, Mrs. Sage, Mr. Sherony, Mr. Sullivan.

A. A major in Economics consists of:

1. Required courses: Economics 200, 201, 330, 350, 360.
2. Controlled electives: 9 credits from the following courses: Economics 311, 315, 341, 345, 361, 381.
3. Electives: additional Economics courses to total at least 30 credits. Sociology 260 may be counted toward the major.
4. Collateral Course: Mathematics 108, or 110, or 224.

A minimum grade point ratio of 2.00 in courses taken within the major is a requirement for acceptance of the student as a major at the start of his junior year. The minimum grade point ratio of 2.00 in courses in the major is also a requirement for the student's retention as a major during his junior and senior years and for department approval of the major for graduation. The department chairman may allow exceptions to this standard on a conditional basis.

B. A minor in Economics consists of at least 20 credits, including Economics 200, 201, and 330.

Note: Four additional credits in Economics to total at least 34 are required for teacher certification with a major in Economics; and two additional credits in Economics to total at least 22 are required for teacher certification with a minor in Economics.

If the student is primarily interested in using economics for employment in business or government it is recommended that he take at least one year of accounting. If the student is considering graduate study in economics, it is recommended that he take collateral courses in mathematics.

Economics 200. General Economics I.

Three credits. An introduction to the character and scope of economics; the elements of supply and demand; the measurement and determination of national income; macro-economics; money and banking. Prerequisite: Sophomore standing.

Economics 201. General Economics II.

Three credits. Monopolistic competition and price theory; micro-economics, theory of distribution, public finance, international trade, and the balance of payments. Prerequisite: Economics 200.

Economics 203S. Principles of Economics.

Four credits. A basic survey of institutions, problems, and policies in the American economy with emphasis on principles; selected micro-economic and macro-economic topics. Open only to those enrolled in Economics Education Institute.

Economics 204. Environmental Economics.

Three credits. The economics of environmental control; externalities, public goods, social costs, and their ef-

fects in the market system; related problems such as urban development and economic growth. Prerequisite: Sophomore standing.

Economics 311/511. Public Finance.

Three credits. Theories, practices, and problems of taxation; proposed tax reforms; fiscal policy. Prerequisite: Economics 201, or consent of instructor.

Economics 312. Public Utilities.

Three credits. Development of public utilities in the United States; theoretical and institutional basis of public utility regulation; development of regulatory agencies; public versus private ownership. Prerequisite: Economics 200.

Economics 315. Business and Government.

Three credits. A general survey of the problems of the relationship between government and business in an advanced technological society. Prerequisite: Economics 201.

Economics 323. Consumer and Cooperative Economics.

Two credits. Economics for the consumer; purchasing, in-

vesting, consumer credit, taxation, and insurance; the development philosophy, and problems of consumer and marketing cooperatives.

Economics 328. Social Insurance. Two credits. Various forms of public insurance, e.g., social security, unemployment insurance, compensation, retirement insurance and public welfare; theory and practice of public agencies of insurance; public insurance applied to industrial and agricultural development. Prerequisite: Economics 200, or consent of instructor.

Economics 330. Statistical Methods. Three credits. Sources of statistical data, tabulation, charting, averages, dispersion, sampling and probability, index numbers, trends, seasonal variations, economic cycles, correlation. Prerequisite: Economics 200.

Economics 341. Corporation Finance. Three credits. Business units, especially corporate, in present day enterprise; financial principles applicable to their operation. Prerequisite: Economics 200 and Business 210 or consent of instructor.

Economics 345. Labor Problems. Three credits. Employer-employee relationships; characteristics of labor markets; types of labor organizations and employer organizations; industrial disputes and the devices for effecting settlements; collective bargaining and labor legislation.

Economics 350. Economic Theory. Three credits. The study of contemporary micro-economic theory, including consumption, production, pricing, and resources allocation. Prerequisite: Economics 201.

Economics 360. Money and Banking. Three credits. Monetary and banking principles and practice; employment and price-level analysis; interest-rate theory; international finance in the banking system. Prerequisite: Economics 200.

Economics 361. National Income Analysis. Three credits. The stages of contemporary macro-economic theory, including the analysis of income, output, and employment; business cycles, growth, and economic policy. Prerequisite: Economics 201.

Economics 362. Economic Development. Three credits. The stages of economic growth; study of economic conditions and policy in the underdeveloped and intermediately developed national economies. Prerequisite: Economics 201.

Economics 365. International Trade. Three credits. The role of international trade, principle of comparative advantage, foreign exchange, balance of payment, gold flows. Prerequisite: Economics 201.

Economics 367/567. Comparative Economic Systems. Three credits. Analysis and appraisal of the structure and function of diverse economic systems, such as capitalism, socialism, communism, and their modifications. Prerequisite: Economics 200.

Economics 381. History of Economic Thought. Three credits. A survey of economic thought from the mercantilists to recent writers. Prerequisite: Economics 201.

Economics 433. Econometrics. Three credits. Introduction to quantitative

methods as they apply to economic relationships; regression and correlation, statistical inference, economic models, and applications to economic theory. Prerequisite: Economics 201, 330; Mathematics 107, or 110, or 224.

Economics 453. Managerial Economics.

Three credits. Application of price theory and economic theory of the firm to business management decisions; use of micro-economics and macro-economics in forecasting for business policy. Prerequisite: Economics 201.

Economics 499. Special Work.

Upper class students majoring or minoring in Economics may, by agreement with the chairman of the Economics Department, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

Economics 704. The American Economy.

Three credits. The make-up of

the American economy, its principal institutions, its principal functions; student analysis of some of the principal problems within the American economy. For students not specializing in Economics.

Economics 746. Labor Economics.

Three credits. A study of unions and the labor force, collective bargaining, and wages; unemployment, insecurity, and major trends in labor organizations and labor problems.

Economics 756. Current Economic Problems.

Three credits. A study of national and international economic policies in the light of commonly accepted social goals, such as efficient use of resources, stability of income and employment, economic growth and development, equitable distribution of income, decentralization of power, personal security, freedom of choice, and peaceful and mutually beneficial international relations.

EDUCATION

John E. Bolen, Assistant Dean of the School of Education.

Educational Foundations and Secondary Education

Mr. Bauer, chairman; Mr. Bernd, Mr. Clements, Mrs. Farlow, Mr. Gibb, Mr. Guelcher, Mrs. Heaton, Mr. William Johnson, Mr. Kirby, Mr. Kurz, Mr. Larsen, Mr. McCaig, Mr. Darwin Miller, Miss Narron, Mr. Radke, Mr. Rossmiller, Mr. Zimdars.

Elementary Education

Mr. Schmatz, chairman; Miss Allar, Mr. Benz, Miss Ditson, Miss Jensen, Mr. Lensemire, Mrs. Miller, Mrs. Samter, Mr. Wenger, Mr. Roger Wood.

Gesell Institute for the Study of Early Childhood

Mr. Pearson, director; Miss Aber, Miss Abney, Mr. Akenson, Miss Bergh, Mr. Campbell, Miss Ditson, Mrs. Fountain, Mrs. Gibb, Miss Gray, Miss Joyce Johnson, Miss Kuse, Miss Jean Lowry, Mrs. O'Halloran, Miss Oman, Miss Padden, Mrs. Ravey, Mrs. Redmon, Mrs. Sauer, Mrs. Schmatz, Miss Spector, Mrs. Stielstra, Mrs. Olive White, Mr. Wright, Mrs. Yost.

Student Teaching

Mr. Hayes, director; Mrs. Bolen, Miss Jensen, Mr. Lensmire, Mrs. Long, Mr. Sylvester, coordinators.

Teacher Corps Program

Mr. Snowden, director; Miss Allar, Miss Dana, Miss Dodge, Mrs. Hall, Mr. Schmatz, Mr. Schneider, Mrs. Scott, Mr. Thoyre, Mr. Vallon.

See also course listings under **Home Economics Education** and under **Mathematics Education**.

The major in **Early Childhood Education** is described under that heading.

Education 001. Driver Education for Beginners. No credit. Concurrent with Education 378 for classroom discussion and activity; behind-the-wheel training in a dual control automobile with a student instructor-in-training, under the supervision of the instructor.

Education 145. Introduction to Early Childhood Education. Two credits. Curricula, purposes and organization of programs in early childhood education. Includes field trips and observations.

Education 241. Creative Activities for Young Children. Three credits. The philosophy and role of the creative activities (music, drama, dance, literature, and art) in early childhood-kindergarten education. Emphasis on the creative activity as it relates to developmental stages.

Education 242. Early Childhood Education Curricula. Four credits. Study of curricula and materials in early childhood-kindergarten education. Emphasis on developmental reading, science, lan-

guage arts, social studies, and mathematics.

***Education 301. Techniques in Kindergarten Education.** Two credits. Techniques used in kindergarten teaching; observation included.

***Education 302. Techniques in Primary Education: Reading, Language Arts.** Four credits. Principles, aims, methods, and techniques.

***Education 310. Techniques for Intermediate and Upper Grades: Reading, Language Arts.** Four credits. Principles, aims, methods, and techniques. Three hours lecture; observation and laboratory hours to be arranged.

Education 311. Techniques for Intermediate and Upper Grades: Mathematics, Social Studies, Science. Four credits. Principles, aims, methods, and techniques. Three hours lecture; observation and laboratory hours to be arranged.

*Admission to the Professional Education Program or to the School of Education is a prerequisite for this course.

Education 320. Techniques in the Elementary School: Guidance. Three credits. Policies and practices of organized guidance in the elementary school; personal, social, and educational adjustment problems and needs. Prerequisite: Education 383 and teaching experience.

Education 321. Techniques in the Elementary School: Speech. Three credits. Methods, materials and philosophy for the teaching of speech in the elementary school; curricular correlation.

Education 322. Techniques in the Elementary School: Art. Two credits. Methods, materials, and philosophy for the teaching of art in the elementary school.

Education 323. Techniques in the Elementary School: Music. Two credits. Theory and application of effective teaching skills in the primary and intermediate grades; aims and content of public school music in relation to general curriculum; classroom observation. Prerequisite: Music 110; open only to Music majors and minors.

***Education 324. Techniques in the Elementary School: Social Studies and Science.** Four credits. Principles, aims, methods, and techniques. Two hours lecture; and four hours observation, laboratory, and/or clinical experience per week.

Education 326. Remedial Reading. Two or three credits. Preventive and remedial measures in the teaching of reading in all the grades and high school; diagnosis of causes and the application of remedial techniques.

Education 327. Remedial Reading Practicum. Three credits. Practical application of remedial reading techniques and materials with individual or small group instruction. Prerequisite: Education 326 or concurrent registration.

***Education 328. Techniques in Elementary and Secondary Education: Physical Education.** Two credits. Aims, methods, materials, techniques, planning, organization, testing, etc., as applied in elementary and high school teaching.

***Education 329. Techniques in Elementary and Secondary Education: Speech Correction.** Three credits. Aims, methods, materials, techniques, planning, organization, testing, etc., as applied in elementary and high school teaching.

***Education 330-340. Techniques in Secondary Education.** Two credits in each of the following courses. Aims, methods, materials, techniques, planning, organization, testing, etc., as applied in high school teaching. The course is offered in the following categories:

- Education 330. Accounting.**
- Education 331. Art.**
- Education 332. English.**
- Education 333. Foreign Language.**
- Education 335. Mathematics.**
- Education 336. Music.**
- Education 337. Science.**
- Education 338. Shorthand and Typewriting.**
- Education 339. Social Studies.**
- Education 340. Speech.**

Education 349. Fieldwork in Early Childhood Education. Five credits. Clinical and laboratory experiences in schools.

*Admission to the Professional Education Program or to the School of Education is a prerequisite for this course.

Study of home and school in culturally differing areas. Prerequisite: Education 242 or concurrent registration.

Education 350/550. Organization and Administration of Outdoor Education. Three credits. Objectives, scope, and administrative aspects of outdoor education in the curriculum, including the role of school forests, day camps, school gardens, community resources, and other outdoor educational techniques.

Education 351/551. The Exceptional Child. Three credits. Characteristics and educational needs of children who are mentally retarded, gifted, emotionally disturbed, or who have visual, hearing, speech, or motor handicaps; an introductory course for those preparing to teach exceptional children, and designed to aid the regular classroom teacher in recognizing and interpreting the significance of developmental deviations. Prerequisite: Psychology 200.

Education 352/552. Workshop in Mental Health. Four credits. A workshop for classroom teachers interested in improving their teaching skills through a better understanding of the role of good mental health in the learning situation. The areas covered will include learning theory, mental health education, emotional growth, and special school and community services for the emotionally handicapped.

Education 353/553. Nature and Needs of Children with Learning Disabilities. Three credits. Introduction to the major emphasis and points of view in theory and practice concerning the identification and remediation of children with learning disabilities. Prerequisite: Psychology 200.

Education 354/554. Methods and Materials for Children with Learning Disabilities. Three credits. Tests, teaching methods and materials described, demonstrated, and evaluated; stress on perceptual motor skills. Prerequisite: Education 353, or concurrent enrollment.

Education 355/555. Seminar in Education of Children with Learning Disabilities. Three credits. An analytical approach that emphasizes adapting methods and materials to individual profiles and abilities; activities and content of the course may be adapted to the needs of the students. Prerequisite: Education 353 and 354.

Education 360/560. Workshop in Elementary Education. Three credits. Workshop technique applied to problems of teaching in various curricular fields in the elementary schools. A subtitle will be added to the title to describe the area considered each time the course is offered.

370/570. Workshop in Education. One to three credits. Workshop technique applied to problems of teaching in the elementary and secondary schools. A sub-title will be added to the title to describe the area each time the course is offered. Prerequisites may be stated for each sub-title.

Education 371. Workshop in Education: Aerospace. One to three credits. Workshop techniques applied to problems of teaching in the elementary and secondary schools.

Education 372. Workshop in Education: Conservation. One to three credits. Workshop technique applied to problems of teaching in the elementary and

secondary schools. Prerequisite: Open only to students majoring or minoring in Natural Resources Management; or Natural Resources 370.

Education 373. Workshop in Education: Foreign Language. One to three credits. Workshop technique applied to problems of teaching in the elementary and secondary schools.

Education 374. Workshop in Education: Group Dynamics within the Secondary School. Two or three credits. Consideration of group dynamics and leadership skills within small and large classes; theory and techniques in promoting optional involvement and learning; major focus on the comparison of teacher roles within large and small groups.

Education 375. Workshop in Education: Multi-unit Schools-Individually Guided Education. Two or three credits. Analysis of multi-unit schools, team teaching, and individually guided education; theory and practice; major focus on development of multi-unit schools in Wisconsin.

Education 377. Safety Education. Three credits. Organization, administration, and teaching of safety in home, highway, water, athletic, recreational, and industrial areas.

Education 378. Driver Education. Three credits. Organization, administration, and teaching of Driver Education and Training; requires the instruction of a new driver with the dual-control training car outside regular class hours.

Education 379. Advanced Driver and Safety Education. Three credits. For personnel in safety and driver education; designed to develop concepts related to traffic safety, traffic law and enforcement, engineering, school transportation, research, teaching methods by using simulated and multiple car plan, and area program administration. Prerequisite: Education 377 and 378.

***Education 380. Principles of Education.** Three credits. Meaning and purposes of education in society; relationship of the teacher to the pupil, the school, the community, and the profession.

***Education 381. Educational Psychology.** Three credits. Psychological bases of educational procedures and practices; the educational implications of the characteristics of physical and mental growth, emotional behavior, motivation, learning, and individual differences; an integrating course taken concurrently with student teaching. Prerequisite: Psychology 200.

Education 382. Philosophy of Education. Three credits. Educational philosophies underlying the various methods of teaching and of organizing subject matter; the relation of political and social philosophies to national systems of education, to different plans of school organization, and to various types of schools.

Education 383/583. Tests and Measurements. Three credits. A brief history of the testing movement; functions of tests, methods by which they are applied, scored, and results tabulated; construction of objective tests and improvements of teacher-made tests.

*Admission to the Professional Education Program or to the School of Education is a prerequisite for this course.

Education 384. Computers, Systems, and Education. Three credits. Effects of computers, systems analysis, and system science on educational method, and on school organization, administration, and curriculum; introduction to computer-assisted instruction; educational simulation; limitations of computer oriented methods of instruction.

Education 385. The Junior High School. Two or three credits. History and development of the modern junior high school; philosophy and objectives, with emphasis on the resulting variations in curriculum programs, and teaching approaches.

Education 386. Reading in the Secondary School. Three credits. Materials and techniques of teaching developmental reading in the secondary school; emphasis on instruction for pupils reading below their potential.

Education 389/589. Issues in Vocational and Technical Education. Two or three credits. The administration and organization of vocational and adult education on the national, state, and local level.

Education 390/590. Seminar. One to three credits. Studies and discussions of current problems in education. A subtitle will be added when specific areas are treated.

***Education 398. Student Teaching.** Credit as arranged. Observation and teaching under the guidance of cooperating teachers; emphasis on guided teaching experiences in actual classroom situations. A subtitle will be added to the title to indicate the field in which the student teaching was done.

Education 399. Special Work. Upper class students in the School of Education may, by agreement with the chairman of the Education Department, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

Education 701. Philosophical Foundations of Education. Three credits. An examination of critical issues in education; their ideological and social bases. Open to experienced elementary and secondary teachers with certification.

Education 702. Psychological Foundations of Education. Three credits. Designed to provide psychological background relative to human abilities and behavior; individual differences; learning and evaluation, with implications for teaching. Open to experienced elementary and secondary school teachers with certification.

Education 703. Theories of Learning. Three credits. A study of classical and contemporary theories of learning. A critical analysis of learning theories with implications for classroom learning situations.

Education 705. Basic Statistical Methods in Education. Three credits. Fundamentals of statistical analysis with application in education and other fields according to needs of students. Use of critical ratios and the test for paired, pooled, and unpooled samples. Straight line and curvilinear regression for simple and multiple correlations of variables. Introduction to the use of probability, simple and two-way analysis, chi-square, and other non-parametric statis-

*Admission to the Professional Education Program or to the School of Education is a prerequisite for this course.

tics. Prerequisites: Education 380 or 580 or 751 and consent of instructor.

Education 706. Experimental and Statistical Methods in Education Research. Three credits. Applicability, limitation of experimental method in education; simplified probability, classical, Bayesian, parametric and non-parametric statistics; use of calculator and computers; experimental designs; literature reviews.

Education 711. Seminar Problems in Teaching, Elementary. Three credits. Definition of problems and issues, critical examination of the research literature, review of trends in curricula and methods, and planning of experimental investigations. Open to elementary school teachers with certification.

Education 712. Seminar Problems in Teaching, Secondary. Three credits. Definition of problems and issues, critical examination of the research literature, review of trends in curricula and methods, and planning of experimental investigations. Open to experienced secondary school teachers with certification.

Education 713. Seminar: Problems in Teaching, Music. Four credits. Definition of problems and issues, critical examination of the research literature, review of trends in curricula and methods, and planning of experimental investigations. Open to experienced music teachers with certification.

Education 714. Seminar: Problems in Teaching, Home Economics. Three credits. Definition of problems and issues, critical examination of the research literature, review of trends in curricula and methods, and planning of experimental investigation.

Education 720. Research Studies in Elementary Education. Three credits. A survey of research covering the following aspects of the elementary school curriculum: reading, science, social studies, language arts, math, music, art, administration, policy development and curriculum organization. Taught by a team from the School of Education Graduate Faculty.

Education 722. Elementary School Curriculum. Three credits. Basic concept of curriculum; the relationship of foundation areas to the problems of curriculum development. Modern trends in developing educational programs for children.

Education 724. Curriculum in Home Economics. Three or four credits. Curriculum trends, evaluation of home economics programs, principles of curriculum structuring and development of guides for teaching home economics.

Education 726. Evaluation of Home Economics Programs. Three credits. Techniques in the analysis of occupational and homemaking programs. Interpretation of results.

Education 731. Mathematics in the Elementary School. Two or three credits. The teaching of modern arithmetic with emphasis on curriculum content as well as method. Prerequisite: recent undergraduate course in Mathematics 310 - Education 108 - Arithmetic.

Education 732. Language Arts in the Elementary School. Three credits. A survey and critical appraisal of programs, basic practices and trends. Emphasis on oral and written expression including spelling and handwriting; specific study of individual problems.

Education 733. Science in the Elementary School. Three credits. A survey of the philosophy and nature of science, new elementary science curricula, innovative and experimental programs in elementary school science, and research in science education in the elementary school.

Education 734. Social Studies in the Elementary Schools. Three credits. Curriculum trends and approaches; new content, materials, innovations; and needed research in the field.

Education 741. Improvement in Reading. Three credits. The study of the various trends and programs in developmental reading, the reading curriculum and the related research. Prerequisite: consent of instructor.

Education 746. Diagnosis and Evaluation of Reading Abilities. Three credits. The study of formal and informal evaluative instruments in reading. Course experiences will include testing to identify remedial readers, construction of a diagnostic profile, and written interpretations of test results. Prerequisite: Education 841. Improvement of Reading or consent of instructor.

Education 747. Remedial Reading. Three credits. Instruction in the materials and techniques of remedial reading. Designed for classroom teachers, reading specialists, and administrators of reading programs who are responsible for instruction, curriculum development and leadership in this area. Prerequisite: Education 746 or consent of instructor.

Education 748. Remedial Reading Practicum. Three credits. Clinical appraisal of remedial reading problems, interpretation of the findings, and the develop-

ment and execution of corrective measures. During the instruction of a remedial reader each student will conduct continuous analysis and evaluation leading to a final report describing the nature of the reader, the techniques and materials used for reading improvement, and with recommendations for post-clinical reading instruction. Prerequisite: Education 747 or consent of instructor.

Education 751. Advanced Tests and Measurements. Two or three credits. Testing batteries and systems, factor analytic studies, regression prediction, traditional and modern theories, educational change.

Education 756. Guidance in the Elementary Schools. Three credits. A study of instruments and techniques used in guidance in the elementary school such as observation, concepts of individual appraisal and methods in group procedures.

Education 758. Education for Cooperating Teachers. Three credits. Study of the student teaching program as one phase of the total undergraduate education program, with emphasis upon orienting student teachers and guiding them in planning, teaching, and evaluating learning activities. Designed for in-service teachers who are or wish to be cooperating teachers.

Education 760. M.A.T. Seminar-Secondary. Three credits. Reflection, analysis, hypothesizing, synthesis and evaluation of concurrent experiences, dynamics of teaching-learning process and professional behavior. Related research. Designs for possible research. Curriculum modification.

Education 761. Secondary Instruction.

Six credits. **I.** Methodology and techniques, instructional strategies. Multi-media materials and approaches, classroom management. **II.** Special problems, methods and materials in area of specialization.

Education 762. Professional Experience-Secondary.

Eight credits. The student is assigned to a selected team of at least two teachers, a school administrator and a member of the University

Graduate Faculty. Teaching in area of specialization and related experiences.

Education 796. Independent Study.

One to three credits. Planned study designed to enrich and supplement the student's preparation in his area of specialization. Regular scheduled conferences with a staff supervisor.

Education 799. Thesis. Two to six credits.

EDUCATION OF THE DEAF _____

Mr. Nix, Director.

The major in Education of the Deaf is administered by the School of Communicative Disorders.

A major in Education of the Deaf for teacher certification consists of:

1. Forty-one credits in Communicative Disorders, including courses numbered 264, 266, 351, 352, 353, 354, 355, 356, 357, 358, 359, 495.
2. Education 351, 381, 383, 398.
3. Ten credits in general education methods approved by the Director.

ENGINEERING GRAPHICS _____

Mr. Lampert.

Engineering Graphics 101. Engineering Graphics.

Three credits. Orthographic projection, sectional view conventions, theory of dimensioning, construction of auxiliary view, and applications to theoretical and practical problems, screw threads, engineering graphs; techniques of freehand and mechanical drafting. For students who have not had engineering drawing in high school.

Engineering Graphics 102. Engineering Graphics and Descriptive Geometry.

Three credits. Analysis and solution of engineering problems involving points, lines, and planes in terms of advanced orthographic projection theory, with emphasis on independent thinking; pictorial representation, isometric projection, and vectors. Prerequisite: Engineering Graphics 101, or one year of engineering drawing in high school.

ENGLISH _____

Mr. Leon Lewis, chairman; Mrs. Becker, Mrs. Bernd, Mr. Berthold, Mr. Thomas Bloom, Mrs. Bloom, Mr. Borns, Mr. James Bray, Mr. Richard Bray, Mr. Buchholz,

Miss Buggs, Mr. Burress, Mr. Chapman, Mr. William Clark, Miss Clauss, Mrs. Corneli, Mrs. Croft, Miss DeSmet, Mr. Doxtator, Mr. Dry, Mr. Engel, Mr. Fanstill, Miss Garr, Mr. Getz, Miss Heldt, Mr. Holborn, Mr. Jessie, Miss Kirsch, Miss Koskenlinna, Mr. Kreitzer, Mrs. Kreitzer, Mr. Lehman, Miss Emilie Lowry, Mr. McIntyre, Mr. Mickelson, Mr. Missey, Mr. Montgomery, Mrs. Moore, Mr. Wendell Nelson, Mr. Odden, Mr. Parins, Mr. Padow, Mr. Rondy, Mrs. Rondy, Mrs. Rose, Miss Shumway, Miss Smith, Mr. Steingass, Miss Stelmahoske, Mr. Lynn Stewart, Mr. Denis Thomas, Mrs. Thomson, Mr. Whearty, Miss Worby, Mr. Young, Mrs. Zawadsky.

A. 1. A major in English consists of 32 credits beyond Freshman English, including English 211, 212, 213, 214, and 20 credits of electives arranged to include course work in each of the first five elective areas listed under **A. 2.** below.

However, under the **substitutability rule**, a major (or a minor, as well as other students whose major or minor departments approve) may substitute certain courses for as many as six of the sophomore survey credits (English 211, 212, 213, and 214). The possible substitutions are:

- a. Two 300-level courses may be substituted for either 211 and 212, or 213 and 214, provided the 300-level courses are in the same area as the courses for which the substitution is made.
- b. English 281 may be substituted for three credits of English 213 or 214.
- c. English 282, 286, or 287 may be substituted for three credits of English 212 or 214.
- d. English 283 may be substituted for three credits of English 211 or 212.
- e. English 284, 285, or 288 may be substituted for three credits of English 211, 212, 213, or 214.

Not more than three credits of English 281 through 288 shall be substituted for the required sophomore surveys (211, 212, 213, 214) by English majors or minors.

Under the substitutability rule, in no instance shall more than six credits be substituted for sophomore surveys (211, 212, 213, 214).

A. 2. Elective Areas: The electives should include course work in each of the first five areas below:

- a. Genres: English 309, 312, 314, 315, 316, 317, 318, 319, 399; Comparative Literature 231, 232.
- b. Periods: English 321, 322, 323, 324, 325, 326, 327, 328, 329, 399; Comparative Literature 300, 301, 303.
- c. Masters: English 330, 333, 334, 336, 399.

- d. Language: English 240, 342, 344, 346, 399.
- e. Writing: English 250, 350, 351, 352, 353, 354, 399.
- f. Special Areas: English 280, 281, 282, 283, 284, 285, 286, 287, 288, 361, 362, 364, 367, 370, 371, 372, 375, 377, 378, 380, 381, 383, 384, 385, 399; Comparative Literature 240, 250.

- A. 3.** Within the English major, **several options** are available. Majors planning to teach in the public schools should include courses in advanced composition and grammar. Desirable minors to accompany the major are: a foreign language, communication, drama, history and a social science.

Recommendation for student teaching and for teacher replacement will be given only to majors and minors whose grade point ratio in their English courses is 2.25 or above.

Majors interested in graduate work and college teaching should include, insofar as possible, Milton, Chaucer, Old English, and two courses in Shakespeare. Knowledge of a foreign language is usually required for graduate work in English.

Majors interested in applied writing positions in business, natural resources (conservation), industry, or science should work out programs in consultation with the chairman of the respective departments: English and Business, English and Natural Resources, etc.

A major in English with an emphasis in creative writing consists of the following:

1. Completion of the requirements for the major in English described in section A.
2. Completion of 12 credits among English 351, 352, 353, and 354. English 353 or 354 may be repeated for a maximum of six credits.

- B.** **A minor in English** consists of 24 credits beyond Freshman English, including English 211 and 212, or 213 and 214, and 18 credits of electives arranged to include course work in each of the first five elective areas listed in **A. 2.** above. The same substitutability options explained in **A. 1.** above are available to minors.

- C.** English 375 is required for **teacher certification** of majors and minors in English; it may be substituted for the requirement in group a. or b. or c. listed in **A. 1.** above.

- D.** University regulations permit a sophomore to take a 300-level course with the approval of the department chairman. Sophomore-level (2—) courses are open to English majors as second semester freshmen.

English 101. Freshman English. Three credits. To assist students to improve their ability to read critically, to reason logically, and to write effectively; emphasis on principles of rhetoric, with expository and imaginative materials used for illustrative purposes.

English 102. Freshman English. Three credits. Continuation of English 101. Prerequisite: English 101.

English 103. Freshman English. Three credits. To improve general literacy of students in reading and writing; attention to selected works both imaginative and expository, containing the great ideas of man.

English 104. Freshman English. Three credits. Continuation of English 103. Prerequisite: English 103.

English 105. Freshman English. Three credits. To improve the general literacy of students in reading and writing; study of selected works to give the student a systematic understanding of fiction, poetry, and drama.

English 106. Freshman English. Three credits. Continuation of English 105. Prerequisite: English 105.

English 170. Folklore. Two or three credits. Introduction to folklore in its literary forms with reference to the ballad, the folk tale, and folk sayings.

English 205. Introduction to Literature: Poetry and Drama. Three credits. A study of selected writings representing various periods and countries, emphasizing insight into the works, and designed to improve the student's ability to understand the literature. Prerequisite: English 102, or 104, or 106, or equivalent.

English 206. Introduction to Literature: Prose. Three credits. See the description for English 205. Prerequisite: English 102, or 104, or 106, or equivalent.

English 211. English Literature. Three credits. A study of selections taken from English literature with emphasis on the major writers from Beowulf through the Pre-Romantics, stressing insight into the works. Prerequisite: Sophomore standing, except for English majors.

English 212. English Literature. Three credits. A study of selections taken from English literature with emphasis on the major writers from the Romantics to the present, stressing insight into the works. Prerequisite: Sophomore standing, except for English majors.

English 213. American Literature. Three credits. A study of selections taken from American literature with emphasis on the major writers from Emerson through Twain, stressing insight into the works. Prerequisite: Sophomore standing, except for English majors.

English 214. American Literature. Three credits. A study of selections taken from American literature with emphasis on the major writers from James to the present, stressing insight into the works. Prerequisite: Sophomore standing, except for English majors.

English 240. Introduction to Linguistics. Three credits. A survey of the fundamental concepts and methods of the scientific study of languages in their structural, historical, and geographical aspects. Prerequisite: Sophomore standing, except for English majors.

English 250. Intermediate Composition. Two or three credits. Practice in descriptive, narrative, and expository proj-

ects with special emphasis on expository writing. Prerequisite: Sophomore standing, except for English majors.

English 275. Children's Literature. Three credits. Literature for children, with emphasis upon the reading, selection, and presentation of materials suitable for the various grades in an elementary school. Prerequisite: Sophomore standing, except for English majors.

English 280. American Indian Literature. Three credits. An introduction to the literature concerning the American Indian from oral and written materials by Indian authors, and from materials by other American writers. Prerequisite: Sophomore standing, except for English majors.

English 281. Frontier Literature. Three credits. Literature dealing with those changing ideas stimulated by the frontier: the New Eden and Adamic concepts, the hero, Manifest Destiny, and varying attitudes toward the land in the works of such authors as Hawthorne, Cooper, Twain, Whitman, Owen Wister, Jeffers, Fitzgerald, and Jack Schaefer. Prerequisite: Sophomore standing, except for English majors.

English 282. Contemporary Literature. Three credits. A study of international poetry, drama, and fiction since 1945. Prerequisite: Sophomore standing, except for English majors.

English 283. Mythology in Literature. Three credits. An examination of the basic myths of creation, the flood, man's fall, the Olympians and their Roman counterparts, and the stories of myth and history which form the basis of the literary expression of western culture; emphasis on the Graeco-Roman, Judeo-Christian, and Norse myths, as

they appear in selected poetry, novels, and plays. Prerequisite: Sophomore standing, except for English majors.

English 284. Utopian Literature. Three credits. A study of selected writings from various periods and countries dealing with Utopia and anti-Utopian ideas, including such writers as Plato, More, Orwell, Huxley, and B. F. Skinner. Prerequisite: Sophomore standing, except for English majors.

English 285. Women in Literature. Three credits. A study of the characterization of women by authors from various periods and countries, such as Sophocles, Chaucer, Shakespeare, Jane Austen, Flaubert, and D. H. Lawrence. Prerequisite: Sophomore standing, except for English majors.

English 286. Science Fiction Literature. Three credits. A survey of the literature of science fiction, including such writers as Verne, Wells, Huxley, Capek, and Vonnegut. Prerequisite: Sophomore standing, except for English majors.

English 287. Mystery Literature. Three credits. A study of mystery literature, emphasizing insight into the works and designed to improve the student's ability to understand literary formulas in the works of such authors as Poe, Doyle, Dickens, Stevenson, Dorothy Sayers, Graham Greene, Wilkie Collins, and Shirley Jackson. Prerequisite: Sophomore standing, except for English majors.

English 288. The Literature of Human Love and Sexuality. Three credits. A survey of the literature of love, using such representative works and authors from various cultures and times as Lysistrata, The Song of Solomon, Ovid, Chaucer, Donne, Swift, DeSade, D. H.

Lawrence, and James Joyce. Prerequisite: Sophomore standing, except for English majors.

English 309. Forms and Modes in Literature. Three credits. Selected works of several writers as examples of a form or mode, to be determined by the special interest of the faculty member offering the course. A subtitle indicating the form or mode (e.g. The Parable in Modern Literature) will be added each time the course is offered.

English 310. The Modern Short Story. Three credits. Representative short stories of world literature with emphasis on literary structure, form, and theme.

English 312. Modern Drama. Two or three credits. Representative dramas of world literature from Ibsen to the present; emphasis on literary structure, form, and theme.

English 314. Modern Poetry. Two or three credits. A study of contemporary poetry.

English 315. The English Novel. Three credits. The English novel from Defoe to George Eliot.

English 316. The English Novel. Three credits. The English novel since George Eliot.

English 317/517. The American Novel. Three credits. The American novel from Brockden Brown to Mark Twain.

English 318/518. The American Novel. Three credits. The American novel from Stephen Crane to the present.

English 319. The Novel Since 1850. Three credits. Representative novels of world literature with emphasis on literary structure, form, and theme.

English 321. Poetry and Prose of the Sixteenth Century. Three credits. Renaissance literature from Skelton to Hooker, including such authors as More, Sidney, Shakespeare, Marlowe, Spenser, Lyly, Green, and Nash.

English 322/522. Poetry and Prose of the Early Seventeenth Century. Three credits. The literature from the death of Elizabeth to Restoration, including such authors as Donne and the other Metaphysicals, Jonson, Bacon, Hobbes, Burton, Browne, Bunyan, and the Cavalier poets.

English 323/523. Eighteenth Century Literature. Three credits. Development of English poetry, drama, and prose fiction from 1660 to the late eighteenth century, through a study of selected authors.

English 324/524. The Romantic Movement. Three credits. Development of romanticism in England, its theory and its creation, including a rapid survey of the pre-Romantic movement.

English 325/525. Victorian Poetry. Three credits. From Browning and Tennyson through the Pre-Raphaelites and Swinburne.

English 326/526. (New) Nineteenth Century Non-Fiction. Three credits. Prose works of such writers as Wordsworth, Coleridge, Hazlitt, DeQuincy, Newman, Arnold, Carlyle, Ruskin, and Pater.

English 327/527. (Formerly 326) Victorian Literature in Transition. Three credits. Works of such writers as Conrad,

Ford, Hardy, Shaw, Yeats, and the Aesthetes and Decadents.

English 328. (Formerly 327) **The Beginnings of American Literature.** Three credits. American literature of the Colonial and Federalist periods.

English 329/529. (Formerly 328) **The American Renaissance.** Three credits. The American literary renaissance of the mid-nineteenth century with major emphasis on the works of Emerson, Thoreau, Hawthorne, Melville, and Whitman.

English 330/530. Chaucer. Three credits. Life and works of Chaucer, with major emphasis on the *Canterbury Tales* and the historical, social, linguistic background necessary for their comprehension and enjoyment.

English 333. Shakespeare. Three credits. The early plays.

English 334. Shakespeare. Three credits. The tragedies and later plays.

English 336/536. Milton. Three credits. Milton's poetry and selected prose.

English 342/542. The Grammar of English. Three credits. Form and function in modern English.

English 344. History of the English Language. Three credits. Standards of sounds, inflection, and syntax of the language.

English 346/546. Old English. Three credits. Introduction to Old English language and literature.

English 350. Expository Writing. Three credits. An advanced course in the principles and practices of expository writing.

English 351. The Technique of Poetry. Three credits. Readings, written exercises, discussions, and, at the option of the instructor, lectures in the techniques of poetry writing; selected poets read and analyzed from the practicing writer's point of view. One three-hour meeting per week. Prerequisite: Consent of instructor or a committee of faculty writers.

English 352. The Technique of Fiction. Three credits. Readings, written exercises, discussions, and, at the option of the instructor, lectures in the techniques of fiction writing; selected fiction writers read and analyzed from the practicing writer's point of view. One three-hour meeting per week. Prerequisite: Consent of instructor or a committee of faculty writers.

English 353. Creative Writing: Poetry. Three credits. Training and practice in writing various forms of poetry; class discussion of student work. The course may be repeated. Prerequisite: Consent of instructor or a committee of faculty writers.

English 354. Creative Writing: Fiction. Three credits. Training in various forms of short (in special cases of novel-length) fiction; class discussion of student work. The course may be repeated. Prerequisite: Consent of instructor or a committee of faculty writers.

English 361. World Literature. Three credits. Representative selections of world literature from the earliest times to the seventeenth century.

English 362. World Literature. Three credits. World literature from the seventeenth century to the present.

English 364. Midwestern Literature. Three credits. History and life of prairie

states, virgin forests, rivers, cities, farms, and industries as reflected in their literature.

English 367/567. English Renaissance Drama, Excluding Shakespeare. Three credits. A critical study of representative Tudor and Stuart plays, with emphasis on form, theme, and dramatic conventions of the period.

English 370/570. The Afro-American in the Literature of the United States. Three credits. A critical study of the image of the Afro-American and racial attitudes in American literature.

English 371/571. Afro-American Literature. Three credits. A critical study of Afro-American literature and the image of American in Black American writing.

English 375. Literature for Adolescents. Three credits. Selecting and reading of literature suitable for adolescents.

English 377. Current Trends in American Poetry. Three credits. Poetry of the last decade.

English 378. Contemporary Fiction. Three credits. Contemporary fiction since World War II with emphasis on experimental narrative techniques and/or thematic relationships.

English 380/580. Literary Criticism. Two or three credits. Principles of literary criticism based on the chief ancient and modern theories.

English 381. Reading for the Teacher of English. Three credits. Fundamental reading concepts applied to English; psychological background of the reading process, means of assessing student abilities and reading materials, and the relationship of reading to writing and speech; techniques for developing posi-

tive student attitudes and skill in comprehending implied as well as explicit meanings.

English 383. Themes in Literature. Three credits. Works of several writers, selected from the manifestation of a theme or related themes, to be determined by the special interest of the staff member offering the course. A subtitle indicating the theme to be studied (e.g. The Jew in American Literature) will be added each time the course is offered.

English 384. Literature and Criticism. The application of one or more critical approaches to the selected works of a number of authors, to be determined by the special interest of the staff member offering the course. A subtitle indicating the critical approach (e.g. A Psychological Reading of Poe, Hawthorne, and Melville) will be added each time the course is offered.

English 385. Masters of Literature. Two or three credits. A close, critical study of one or more masters of literature, to be determined by the special interest of the staff member offering the course. A subtitle indicating the author or authors studied will be added each time the course is offered.

English 395. Workshop in English. Two or three credits. Study of contemporary scholarship in the English language.

English 399. Independent Study. Upper class students may, by agreement with the chairman of the English Department, arrange for out-of-class work, for which credit may be allowed up to one credit for each week, or its equivalent, devoted exclusively to the project. Students with less than a grade point ratio of 3.00 in English courses are advised not to register for this course. Prerequisite: Consent of instructor.

English 712. Modern Drama. Three credits. The works of contemporary continental, British, and American playwrights.

English 714. Modern Poetry. Three credits. British and American poetry from 1913 to the present.

English 715. The English Novel, I. Three credits. The English novel from its eighteenth century beginnings to the Victorian writers Dickens, Thackeray, and Eliot.

English 716. The English Novel, II. Three credits. Major development in the English novel from the 1860's to the present. Representative novelists such as Trollope, Meredith, Hardy, Joyce, Lawrence, and Conrad will be studied.

English 717. American Novelists, I. Two or three credits. The works of Cooper, Hawthorne, Melville, Howells, Mark Twain, Henry James, and Crane.

English 718. American Novelists, II. Two or three credits. The works of Norris, Dreiser, Wharton, Cather, Glasgow, Lewis, Dos Passos, Steinbeck, Hemingway, and Faulkner.

English 722. Seventeenth Century English Literature. Three credits. Metaphysical, cavalier and Spenserian poetry exclusive of Milton, and a study of prose from Bacon to Walton.

English 723. Eighteenth Century English Literature. Three credits. English Neoclassicism (1660-1789) and its achievements as seen in the work of such representative figures as Dryden, Pope, Swift, and Johnson, and as seen in such literary modes as Restoration Drama, the rise of the periodical essay, and the development of the novel.

English 724. Major Romantic Writers. Three credits. The poetry and prose of Wordsworth, Coleridge, Byron, Shelley, and Keats.

English 725. Victorian Poetry. Three credits. Major Victorian poets and important movements within the context of the nineteenth century.

English 726. Victorian Prose. Three credits. The works of such representative prose writers of Victorian England as Carlyle, Arnold, Mill, Newman, Ruskin, Huxley, and Pater.

English 733. Shakespeare. Two or three credits. Study of Shakespeare's plays to increase understanding and enjoyment. While emphasis remains on the plays themselves, the study will include matters of source, text, the times, type and structure, the stage, poetry, and twentieth century criticism.

English 740. Language in Society. Three credits. Historical growth and continuing development of the English language and its uses in society, including a study of current usage and principles for evaluating language in use. For experienced teachers who have completed the lower division course requirements in English and who have not had similar work.

English 745. American English Usage. Three credits. American English usage. Prerequisite: English 342 or equivalent.

English 746. Comparative Grammar. Three credits. The various kinds of grammars and the theories which gave rise to them, with particular attention to those systems to which English has been subjected in the last few years; with emphasis on syntax. Prerequisite: English 342 or equivalent.

English 750. Rhetoric of Written Communication. Three credits. Provides for a considerable amount of writing by students, who will also read a number of modern essays and other types of good writing, and examine the methods and styles used. Practice will be given in the criticism and judging of composition, both that of the students themselves and that of high school students, and a re-examination of the principles and standards on which these judgments may be based.

English 760. Literature and Human Experience. Three credits. An introduction to the study of literature as an instrument for man's understanding and taking possession of his own experience. A few central works in poetry and prose will be studied. For experienced teachers who have completed 6 credits in sophomore literature and who have not had similar work.

English 762. American Transcendentalism. Three credits. The characteristics of American transcendentalism, its sources, principal figures, and literary achievements.

English 767. American Poetry of the 18th and 19th Centuries. Three credits. American poetry from Taylor to Dickinson.

English 770. Theory of Literature. Three credits. The nature of literature, the elements of the literary process and the nature and modes of narrative fiction.

English 772. Poetry: Forms, Functions, and Meanings. Three credits. The forms and structures of poetry in English and the ways that poems convey meaning.

English 785. Selected Literary Topics or Authors. Two or three credits. The specific author(s) or topic(s) will be announced for each semester.

English 790. Bibliographical Procedures and Research Methods. Two credits.

English 795. Directed Research. Two or three credits. Supervised study under the direction of an instructor.

English 799. Thesis. Two to six credits.

EXPERIMENTAL FOOD AND NUTRITION_____

See **Home Economics.**

FOOD AND NUTRITION_____

See **Home Economics.**

FOOD SERVICE MANAGEMENT_____

See **Home Economics.**

FOREIGN LANGUAGES AND COMPARATIVE LITERATURE_____

Mr. Adams, chairman; Mr. Melvin Bloom, Mrs. Boyce, Miss Mildred Davis, Miss Kaminska, Mrs. Knowlton, Mr. Kroner, Mrs. Lewis, Mr. Montes, Mr. Morgan, Mr. Schirz, Mr. Seiler, Mrs. Seiler, Miss Szramko, Mr. von Rautenfeld, Mr. Zander, Mr. Zeoli.

The Department of Foreign Languages and Comparative Literature offers courses in Chinese, French, German, Greek, Polish, Russian, Spanish, and Comparative Literature. Courses in these categories are described under appropriate headings in this section of the catalog.

All entering students who elect courses in French, German, Polish, Russian, or Spanish, and who have previously studied the language, are required to take a placement examination in that language. On the basis of this examination they will be placed in the appropriate course. Students are urged to complete this placement examination before their assigned registration day.

Freshmen and sophomores who have demonstrated proficiency in a foreign language may be placed in the appropriate 300- or 400-level foreign language course by the department.

Majors and/or minors are offered in French, German, Russian, Spanish, and Comparative Literature; they are described under the appropriate headings.

To be accepted as a major, to be retained as a major, and to be approved for graduation with a major in a Foreign Language, the student must have a minimum grade point ratio of 2.00 in courses taken within the major. The chairman of the department may allow exemptions on a conditional basis.

The department urges its majors either (a) to minor in Comparative Literature, or (b) to fulfill the humanities requirement by taking courses in Comparative Literature.

Foreign Language 010. English as a Foreign Language. No credit. A two-semester, non-credit course in English for foreign students who do not have adequate facility in English for university work.

FORESTRY

Courses in Forestry are taught by members of the College of Natural Resources which also administers the major and minor in Forestry, under the general degree requirements of the College of Natural Resources.

A. A major in Forestry consists of:

1. Forty-one credits including Forestry 120, 321, 322, 332, 425, 426, 432; Natural Resources 170, 372; Soils 260; Water 180; Wildlife 140; seven credits selected from the following professional forestry electives: Forestry 324, 325, 427, 428, 493; Geography 377; Natural Resources 371, 473, 474, 490; Soils 361.
2. Six credits of Summer Camp courses: Forestry 320; Soils 360; Wildlife 340.
3. Completion of one of the two collateral emphases:

a. Forest Management:

Biology 130, 160, 351; Chemistry 105 and 106, or 115 and 116; Economics

200; Mathematics 110 or 224; and at least four credits from the following: Biology 205; Chemistry 220, 240; Computer Science 106; Geology 104; Mathematics 225; Natural Resources 171; Physics 103.

b. Forest Administration:

- b.1. Biology 130, 160; Business 320; Chemistry 101 or 103 or 105 or 115; Economics 200, 201; Mathematics 105 or 107 or eligibility for 110.
- b.2. At least six credits from this group: Communication 211, 217, 320, 325, 330, 365, 400; English 342, 350.
- b.3. At least six credits from this group: Business 330, 370, 380; Economics 311, 315, 341, 345, 361, 365, 453; Political Science 301, 320, 342, 350, 351, 354, 420; Psychology 270, 320; Sociology 311, 312, 356, 456.

B. A minor in Forestry consists of 22 credits selected from the following:

Forestry 120, 320, 321, 322, 324, 325, 332, 425, 426, 427, 428, 432, 493; Natural Resources 372; Soils 361.

By using the Forestry minor to complement an appropriate major, the student may prepare himself for one of the various fields within forestry; e.g. with Resource Management for forest and park land management; with Business Administration for preparation in industrial forestry; with Biology for preparation in forest genetics, forest entomology and pathology; with Soils for preparation in forest soil science, etc.

In addition to the general requirements of the College of Natural Resources, the following should be noted:

1. Courses in Forestry numbered 300 and above require a student to have completed the introductory courses in Natural Resources, Forestry, Soils, Water, and Wildlife, as well as the Summer Camp courses. It is therefore important that a student complete the required introductory courses and summer camp before the beginning of the first semester of the junior year.
2. The courses taken to fulfill a major in Forestry must be approved by the student's adviser prior to graduation. It is therefore imperative that each student work with an adviser in choosing his course sequence.

Forestry 120. Introduction to Forest Resources. Three credits. Introduction to the forest resources of the United States with special emphasis on the role of forestry in historic and current events; elementary mensuration; management techniques. Two hours lecture, two hours laboratory per week.

Forestry 320. Forest Measurement and Surveying. Two credits. See Summer Camp Program, which is described under Natural Resources (page 249).

Forestry 321/521. Dendrology. Three credits. Identification, classification, distribution, and economic importance of

the principal forest trees of the United States. Two hours lecture, two hours laboratory per week. Prerequisite: Summer Camp or consent of instructor.

Forestry 322/522. Forest Mensuration. Three credits. Measurement of forest stands, products, and growth, including the construction and use of appropriate instruments, tables, and surveys. Two hours lecture, three hours laboratory per week. Prerequisite: Mathematics 105 or 107 or eligibility for 110; Summer Camp or consent of instructor.

Forestry 324/524. Forest Fire Control. One credit. Analysis of fire behavior and associated weather phenomena; prevention and control of wildfires. Prerequisite: Summer Camp or consent of instructor.

Forestry 325/525. Principles of Range Management. Three credits. Technical study of sustained yield management practices applicable to rangelands with consideration of proper stocking and grazing systems and methods of range surveying. Prerequisite: Biology 130; Soils 260; Summer Camp or consent of instructor.

Forestry 332/532. Silvics. Three credits. Ecological foundations of silviculture with reference to forest site factors; influence of forests on the environment; growth and development of trees and stands; origin, development, and classification of forest communities. Two hours lecture, three hours laboratory per week. Prerequisite: Forestry 320; Summer Camp or consent of instructor.

Forestry 425/625. Forest Management and Finance. Three credits. Principles of organizing and regulating forest properties; valuation and investment analysis. Two hours lecture, two hours laboratory per week. Prerequisite: Fores-

try 321, 322, 332, 432; Summer Camp or consent of instructor.

Forestry 426/526. Forest Entomology and Pathology. Four credits. The important forest insects and diseases, their relation to forest management and utilization, and the principles and methods of their control. Two hours lecture, four hours laboratory per week. Prerequisite: Forestry 321, Summer Camp, or consent of instructor.

Forestry 427/627. Recreational Use of Forests and Parks. Three credits. Principles and methods involved in the development and administration of recreational and interpretive programs on recreational lands. Two hours lecture, two hours laboratory per week. Prerequisite: Summer Camp or consent of instructor.

Forestry 428/628. Wood Technology. Three credits. Structure of wood; identification of native woods by microscopic and macroscopic features; physical and chemical properties; uses. Two hours lecture, two hours laboratory per week. Prerequisite: Forestry 321; Summer Camp or consent of instructor.

Forestry 432/632. Silviculture. Two credits. Principles governing establishment, treatment, and control of forest stands; natural and artificial regeneration systems; intermediate cuttings, and cultural operations with emphasis on the principal forest types of temperate North America. One hour lecture, three hours laboratory per week. Prerequisite: Forestry 332; Summer Camp or consent of instructor.

Forestry 493/693. Forestry Field Seminar. One or two credits. See Field Seminar Program, which is described under Natural Resources (page 248).

Forestry 499. Special Work. Upper class students in Forestry may, by agreement with the Assistant to the Dean of the College of Natural Resources, arrange for special out-of-class work for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

Forestry 720. Forest Tree Improvement. Four credits. Distribution of genetic variation in forest tree populations; in-

roduction, selection, progeny testing, species hybridizations, and polyploidy to obtain superior tree population. Prerequisite: Mathematics 225 or equivalent.

Forestry 730. Tree Physiology. Four credits. The principal physiological processes of trees, including synthesis and use of foods, and growth phenomena. Prerequisite: Biology 551 and Chemistry 220 or equivalent.

FRENCH

Courses in French are taught by members of the Department of Foreign Languages and Comparative Literature, which also administers the major and minor in French.

Freshmen and sophomores who have demonstrated proficiency in French may be placed in the appropriate 300- or 400-level course by the department.

A. A major in French consists of 31 credits beyond the first year level. Students seeking **teacher certification** should take the following: French 313, 314, 317, 320 or 420, 331 or 332; and nine to twelve credits of French literature.

B. A minor in French consists of 21 credits beyond the first year level, with the following courses suggested: French 313, 314, 320, 331 or 332; and three credits of French literature.

French 101. First Year French. Four credits. For students with no previous training in the language, or by placement examination.

French 102. First Year French. Four credits. Continuation of French 101. Prerequisite: French 101, or by placement examination.

French 103. First Year Aural-Oral French. Four credits. Audio-visual approach; for students with no previous training in the language, or by placement examination.

French 104. First Year Aural-Oral French. Four credits. Continuation of French

103. Prerequisite: French 103, or by placement examination.

French 105. (Formerly 215) Reading Proficiency in French. Four credits. Readings in technical prose with a view to developing accuracy and facility in translating. This course does not count toward the major or minor nor toward the foreign language requirement.

French 106. (Formerly 216) Reading Proficiency in French. Four credits. Continuation of French 105. (Restriction applies.) Prerequisite: French 105.

French 211. Second Year French. Four credits. Intensive grammar review, prac-

tice in reading and speaking French. Prerequisite: French 102 or 104, or by placement examination.

French 212. Second Year French. Four credits. Intensive grammar review. Prerequisite: French 211, or by placement examination.

French 313. Intermediate Conversation. Two or three credits. Prerequisite: French 212, or by placement examination.

French 314. Intermediate Composition. Two or three credits. Prerequisite: French 212, or by placement examination.

French 317. Advanced Conversation and Composition. Two credits. Prerequisite: French 313 or 314; or equivalent.

French 320. Phonetics and Diction. Two credits. Prerequisite: French 212, or by placement examination.

French 331. French Civilization and Culture. Three credits. Prerequisite: French 313 or equivalent.

French 332. French Civilization and Culture. Three credits. Prerequisite: French 313 or equivalent.

French 340. Introduction to French Literature. Three credits. Intensive reading in French literature, methods of literary analysis of the various genres; introduction to fundamental techniques of literary criticism. Prerequisite: French 212, or by placement examination.

French 341. Survey of French Literature. Three credits. French literature to 1800. Prerequisite: French 340 or consent of instructor.

French 342. Survey of French Literature. Three credits. Nineteenth century French literature to the present. Prerequisite: French 340 or consent of instructor.

French 350. French Literature of the Seventeenth Century. Three credits. Special focus on one or more of the following: drama, prose, or poetry. A subtitle indicating the focus will be added each time the course is offered. With a different focus, the course may be repeated for credit. Prerequisite: French 340 or consent of instructor.

French 355. French Literature of the Eighteenth Century. Three credits. Special focus on one or more of the following: drama, prose, or poetry. A subtitle indicating the focus will be added each time the course is offered. With a different focus, the course may be repeated for credit. Prerequisite: French 340 or consent of instructor.

French 360. French Literature of the Nineteenth Century. Three credits. Special focus on one or more of the following: drama, prose, or poetry. A subtitle indicating the focus will be added each time the course is offered. With a different focus, the course may be repeated for credit. Prerequisite: French 340 or consent of instructor.

French 370. French Literature of the Twentieth Century. Three credits. Special focus on one or more of the following: drama, prose, or poetry. A subtitle indicating the focus will be added each time the course is offered. With a different focus, the course may be repeated for credit. Prerequisite: French 340 or consent of instructor.

French 420. Linguistic Structure of French. Three credits. Prerequisite: French 314 or equivalent.

French 493. Specialized Studies in French Literature. Two or three credits.

Special focus to be determined by the instructor offering the course, one of the following: a literary genre or group, a recurrent theme in literature, a single author, or a comparison of two authors. A subtitle indicating the focus will be added each time the course is offered. With a different focus, the course may be repeated for credit. Prerequisite:

One 300-level French literature course and consent of instructor.

French 499. Independent Research in French. One to three credits.

Individual study under the direction of consenting faculty member. May be taken only by upper level majors and minors with the consent of the chairman of the department.

GENERAL SCIENCE

Mr. Blocher, Mr. Kulas, advisers.

A. A major in General Science in the College of Letters and Science consists of the following:

1. One science from each of the following groups:

Group (a): Chemistry 105 and 106, or 115 and 116.

Physics 103 and 104, or 110 and 211 and 212.

Group (b): Biology 130 and 160.

Geography 102 and 103.

Geology 104 and 105.

2. The one-semester survey course in each of the other sciences listed above.
3. Ten credits selected from courses numbered 300 or above in Astronomy, Biology, Chemistry, Geology, Physics, or Physical Geography (courses numbered 352, 353, and 354 apply).
4. Collateral requirement: Mathematics 107 or eligibility for 110.

B. A major in General Science for teacher certification consists of the following:

1. Chemistry 105 and 106, or 115 and 116.

Physics 103 and 104, or 110 and 211 and 212.

2. Two of this group: Biology 130 and 160; Geography 102 and 103; Geology 104 and 105;

OR All of this group: Biology 130 and 160; Geography 102; Geology 104.

3. Additional credits in Biology, Chemistry, or Physics, selected to satisfy the requirements for a minor of at least 22 credits in that subject matter area.
4. Additional credits to total 54 in the sciences.

C. A minor in General Science in the Elementary Education curriculum consists of 25 credits selected from Astronomy, Biology, Chemistry, Geography (only

courses numbered 101, 102, 103, 352, 353, and 354 apply), Geology, and Physics. A minimum of one five-credit course must be selected from each of three of the different areas.

Mathematics 107 or eligibility for 110 is a collateral requirement.

GEOGRAPHY

Mr. Robert Anderson, chairman; Mr. William Anderson, Mr. Bjork, Mr. Brandt, Mr. Chang, Mr. Difford, Mr. Echola, Mr. Henderson, Mr. James Janke, Mr. Ronald Janke, Mr. Alvin Johnson, Mr. Kapter, Mr. McKinney, Mr. Milfred, Mr. Multhauf, Mr. Parry, Mr. Perret, Mr. Rall, Mr. Sanders, Mr. Sebanc, Mr. Sengenberger, Mr. Smit, Mr. Specht, Mr. Stetzer, Mr. VanLieshout.

A. A major in Geography consists of a minimum of 34 credits to include the following:

1. Geography 101, or 102 and 103 (if Geography 101 is taken, Geography 352 and either 353 or 354 must also be included); Geography 110 or 251, 376, 378, 479.
2. At least two regional courses from the following: Geography 226 or 326, 300, 301, 302, 327, 328, 329, 330, 331.
3. At least one topical course from the following: Geography 369, 370, 371, 372, 373, 374, 375.
4. Sufficient additional credits to total 34 or more. This may include Latin American Studies 423.

B. A minor in Geography consists of 22 credits to include the following:

1. Geography 101, or 102 and 103; 110 or 251.
2. At least one course from each of the following groups:
 - a. Geography 226 or 326, 300, 301, 302, 327, 328, 329, 330, 331.
 - b. Geography 369, 370, 371, 372, 373, 374, 375.
3. Sufficient additional credits to total 22 or more. This may include Latin American Studies 423.

Geography 101, 102, 103, 352, 353, and 354 are physical geography courses. All others, except Geography 376, 377, 378, and 379, are cultural.

Geography 100. Fundamentals of Physical Geography. Three credits. An introductory inquiry into the distribution of the earth's landforms, climates, natural vegetation, and soils. Two hours lecture, two hours laboratory per week;

field trips. For students not intending to major or minor in Geography. This course may be used in partial fulfillment of Part B of the Natural Science requirement of the general degree requirements.

Geography 101. Earth Science. Five credits. Factors of our natural environment; earth relationship, weather, landforms, and soil; three hours lecture, four hours laboratory per week; field trips. For students not intending to major or minor in Geography. Credit in this course can be used to meet the laboratory science requirements for a degree, but cannot be counted for graduation or the major if Geography 102 and 103 (or equivalent) are counted.

Geography 102. Weather and Climate. Five credits. An introduction to the elements of weather and climate to include earth and sun relationships, winds, humidity, and storms; an analysis of the classifications of the climates of the world; three hours lecture, four hours laboratory per week. Credit in this course can be used to meet the laboratory science requirements for a degree.

Geography 103. Physiography. Five credits. A descriptive interpretation of landforms, soil, and mineral resources; three hours lecture, four hours laboratory per week; field trips. Credit in this course can be used to meet the laboratory science requirement for a degree.

Geography 110. Economic Geography. Three credits. Production and distribution of the world's commodities of commerce — its foodstuffs, raw materials, manufactured goods, and trade.

Geography 211. Wisconsin. Two or three credits. A geographic analysis of the natural and cultural features of the state. Prerequisite: Sophomore standing.

Geography 213. Regional World Geography. Two credits. A broad regional survey of the geographic areas of the earth (North America, South America, Australia, and New Zealand), with em-

phasis on the contrasts and similarities of the relations of man and environment among the different regions. Not open to Geography majors and minors. Prerequisite: Sophomore standing.

Geography 214. Regional World Geography. Two credits. Same as Geography 213, but covering Europe, Asia, insular Asia, and Africa. Not open to Geography majors and minors. Prerequisite: Sophomore standing.

Geography 226. North America. Three credits. Regional geography of the United States and Canada. Prerequisite: Sophomore standing.

Geography 251. Cultural Geography. Three credits. Principles of cultural geography; interpretation of population, settlement, agriculture, manufacturing, transportation, and trade; their areal association and differentiation. Prerequisite: Sophomore standing.

Geography 300. Africa. Three credits. Regional interpretation with particular attention to the distribution and activities of the peoples in relation to the physical and cultural patterns and to the various stages and problems of development.

Geography 301. Middle America. Two credits. Regional geography of Mexico, Central America, and the islands of the Caribbean.

Geography 302. Australia and the Pacific Islands. Three credits. Regional consideration of the advantages and limitations of the physical environment, population distribution, and economic development of Australia, and the islands of Melanesia, Micronesia, and Polynesia.

Geography 326. Historical Geography of the United States. Three credits. Man's changing evaluation and utilization of the American land; a study of cultural successions in various regions of the United States, emphasizing the origin and areal diffusion of representative cultural forms.

Geography 327. Asia. Three credits. Study of the physical features of the continent in relation to the distribution of population, agriculture, industry, and trade; special attention given to China, Japan, Korea, India, and Southwestern Asia.

Geography 328. Europe. Three credits. The geographic regions of Europe.

Geography 329. South America. Three credits. A topical and regional analysis of the geography of South America.

Geography 330. The Soviet Union. Three credits. An evaluation of the human geography of the U.S.S.R. in terms of the natural environment, cultural background, and historical experience with an emphasis on regional diversity.

Geography 331. China. Three credits. Regional concept of physical and cultural characteristics of China with special emphasis on resources, population, and economic development.

Geography 352. Landforms. Three credits. Form and origin of landforms; field trips in the local area to supplement classroom activities. Prerequisite: Geography 101 or 103, or consent of instructor.

Geography 353. Analytical Climatology. Three credits. Study of the composition, characteristics, and circulation of the atmosphere. Prerequisite: Geography 101 or 102, or consent of instructor.

Geography 354. Regional Climatology. Three credits. A descriptive explanatory analysis of world climatic patterns and classification systems. Prerequisite: Geography 101 or 102, or consent of instructor.

Geography 369. Political Geography. Three credits. A geographic interpretation of political areas; the political significance of cultural and physical aspects of such areas.

Geography 370. Transportation Geography. Three credits. Survey and analysis of carriers, terminals, and routes of the world, with emphasis on commodity flow and traffic patterns.

Geography 371. Geography of Domesticated Plants and Animals. Three credits. Historical study of the beginnings of agriculture and origins and dispersals of domesticated plants and animals in the world.

Geography 372. Industrial Geography. Three credits. The growth of industry in the nations of the world, with primary emphasis on northeastern United States, the industrial nations of northwest Europe, and eastern Asia.

Geography 373. Urban Geography. Two or three credits. Agglomerated settlements and their causes; individual cities, their population, land use and livelihood structures; the relations between cities and their adjacent regions.

Geography 374. Agricultural Geography. Three credits. Characteristics, development, and location factors of world agricultural production, including both a topical and a regional analysis.

Geography 375. Mineral Resources. Three credits. Distribution and production of world mineral resources, including conservation principles.

Geography 376. Cartography. Four credits. Introductory principles of map construction, map interpretation, and map reproduction. Two hours lecture, four hours laboratory per week.

Geography 377. Air Photo Interpretation. Three credits. Characteristics of aerial photographs and their use in the analysis of cultural and physical phenomena of the earth. Two hours lecture, two hours laboratory per week.

Geography 378. Field Study. Three credits. Techniques and practices used in making geographical observations in the field; emphasis on analysis, recording, and mapping of natural and cultural phenomena at selected localities. Prerequisite: Geography 376, or consent of instructor.

Geography 399. Special Work. Upper class students in Geography may, by agreement with the chairman of the Geography Department, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

Geography 479. Seminar. One credit. Problems of geography pertaining to concepts, methods, and practices, regional and topical. Prerequisite: Geography major with senior standing, or consent of instructor.

Geography 701. World Populations and Resources. Three credits. The elements of population, its numbers distribution, and characteristics, with an analysis of selected populations, their

resource bases, and related problems. Open to experienced teachers who have met the introductory lower division course requirements in history and the social studies and who have not had similar work.

Geography 713. Agricultural Geography. Three credits. Origin and dispersal of agriculture, development characteristics, and localization of world agricultural production. Prerequisite: Introductory course in geography or consent of instructor.

Geography 751. Geography of the Soviet Union. Three credits. A topical-geographic approach to the USSR; agriculture, mining, manufacturing, and transport, shaped by a Marxist-Leninist ideology as conditioned by a specific set of environmental and historical circumstances as well as by technological development.

Geography 752. Geography of the Southwest Pacific. Three credits. A topical-geographic approach to Australia, New Zealand, and the Islands of the Southwest Pacific; agriculture, mining, manufacturing, and trade, against the background of environmental circumstances, cultural heritage, and political affiliation.

Geography 754. Geography of the Far East. Three credits. Development of agriculture, industry, and trade in relation to physical setting, resources, and population; study of one selected region for each session. Prerequisite: Introductory course in geography, or consent of instructor.

GEOLOGY

Courses in Geology are administered by members of the Geography Department.

Geology 100. Geology and Man. Three credits. The origin and distribution of earth materials as related to human activity. Two hours lecture, two hours laboratory per week; field trips. This course may be used in partial fulfillment of Part B of the Natural Science requirement of the general degree requirement.

Geology 104. Physical Geology. Four credits. Introduction to the study of minerals and rocks and processes which act upon and within the earth. Three hours lecture, two hours laboratory per week; field trips.

Geology 105. Historical Geology. Four credits. Survey of the history of the earth and life; emphasis on the evolution of continents. Three hours lecture, two hours laboratory per week; field trips. Prerequisite: Geology 104.

Geology 300. Mineralogy. Three credits. An introduction to crystallography and descriptive mineralogy with emphasis on the rock forming minerals.

Two hours lecture, two hours laboratory per week. Prerequisite: Geology 104 or Chemistry 105 or 115.

Geology 339. Fossil History of the Vertebrates. Three credits. A survey of the evolutionary history of the major vertebrate groups as revealed by the fossil record.

Geology 340. Sedimentology. Three credits. The processes of weathering, transportation, deposition, and lithification which produce the detrital, biochemical, and chemical sedimentary rocks. Two hours lecture, two hours laboratory per week; field trips. Prerequisite: Geology 104.

Geology 370. Pleistocene Geology. Three credits. The origin and development of glacial features and related phenomena over the last three million years; field trips. Prerequisite: Geology 104 or Geography 103 or consent of instructor.

GERMAN

Courses in German are taught by members of the Department of Foreign Languages and Comparative Literature, which also administers the major and minor in German.

Freshmen and sophomores who have demonstrated proficiency in German may be placed in the appropriate 300- and 400-level courses by the department.

A. A major in German consists of 31 credits beyond the first year level. Students seeking **teacher certification** should take the following: German 313, 314, 317, 320 or 420, 331 or 332; and nine to twelve credits of German literature.

B. A minor in German consists of 21 credits beyond the first year level, with the following courses suggested: German 313, 314, 320, 331 or 332; and three credits of German literature.

German 101. First Year German. Four credits. For students with no previous training in the language, or by placement examination.

German 102. First Year German. Four credits. Continuation of German 101. Prerequisite: German 101, or by placement examination.

German 105. (Formerly 215) **Reading Proficiency in German.** Four credits. Readings in technical prose, with a view to developing accuracy and facility in translating. This course does not count toward the major or minor nor toward the foreign language requirement.

German 106. (Formerly 216) **Reading Proficiency in German.** Four credits. Continuation of German 105 (restriction applies). Prerequisite: German 105 or consent of instructor.

German 211. Second Year German. Four credits. Intensive grammar review. Prerequisite: German 102, or by placement examination.

German 212. Second Year German. Four credits. Continuation of German 211. Prerequisite: German 211, or by placement examination.

German 313. Intermediate Conversation. Two or three credits. Prerequisite: German 212, or by placement examination.

German 314. Intermediate Composition. Two or three credits. Prerequisite: German 212, or by placement examination.

German 317. Advanced Conversation and Composition. Two credits. Prerequisite: German 313 or 314, or equivalent.

German 320. Phonetics and Diction. Two credits. Prerequisite: German 212, or by placement examination.

German 331. German Culture and Civilization. Three credits. Prerequisite: German 313 or equivalent.

German 332. German Culture and Civilization. Three credits. Prerequisite: German 313 or equivalent.

German 340. Introduction to German Literature. Three credits. Intensive reading in German literature, methods of literary analysis of the various genres; introduction to fundamental techniques of literary criticism. Prerequisite: German 212, or by placement examination.

German 356. Goethe. Three credits. Works of Goethe. Prerequisite: German 340 or consent of instructor.

German 357. The Enlightenment and the Classical Period. Three credits. Background to the Enlightenment and Classical periods; works of Lessing, Schiller, and Goethe. Prerequisite: German 340 or consent of instructor.

German 360. German Literature of the Nineteenth Century. Three credits. Special focus on one or more of the following: drama, prose, or poetry. A subtitle indicating the focus will be added each time the course is offered. With a different focus, the course may be repeated for credit. Prerequisite: German 340 or consent of instructor.

German 369. German Literature at the Turn of the Century. Three credits. German literature from Naturalism to Expressionism. Prerequisite: German 340 or consent of instructor.

German 370. German Literature of the Twentieth Century. Three credits. Special focus on one or more of the following: drama, prose, or poetry. A subtitle indicating the focus will be added each time the course is offered. With a different focus, the course may be repeated for credit. Prerequisite: German 340 or consent of instructor.

German 420. Linguistic Structure of German. Three credits. Prerequisite: German 314 or equivalent.

German 441. Survey of German Literature. Three credits. From the beginnings to the eighteenth century. Prerequisite: One 300-level German literature course, or consent of instructor.

German 442. Survey of German Literature. Three credits. From the eighteenth century to the present. Prerequisite: One 300-level German literature course, or consent of instructor.

German 493. Specialized Studies in German Literature. One to three credits. Special focus to be determined by the instructor offering the course, one of the following: a literary genre or

group, a recurrent theme in literature, a single author, or a comparison of two authors. A subtitle indicating the focus will be added each time the course is offered. With a different focus, the course may be repeated for credit. Prerequisite: One 300-level German course and consent of instructor.

German 499. Independent Research in German. One to three credits. Individual study under the direction of consenting faculty member. May be taken only by upper level majors and minors, with the consent of the chairman of the department.

GREEK

Courses in Greek are administered by the Department of Foreign Language and Comparative Literature.

Greek 105. New Testament Greek. Four credits. Fundamentals of New Testament Greek necessary to develop reading ability. Not to be counted toward the Foreign Language requirement of the general degree requirements. Co-requisite: Concurrent registration in History 101.

Greek 106. New Testament Greek. Four credits. Readings from the New Testament. Not to be counted toward the Foreign Language requirement of the general degree requirements. Prerequisite: Greek 105, or consent of the instructor; concurrent registration in History 102.

GESELL INSTITUTE FOR THE STUDY OF EARLY CHILDHOOD

See **Education**.

HISTORY

Mr. Justus Paul, chairman; Mr. Alltmont, Mr. Artigiani, Mr. Crow, Mr. Dietrich, Mr. Face, Mr. Gibson, Mr. Hays, Mr. Hogeland, Mr. Jenkins, Mr. Klein, Mr. Knowlton, Mr. Kremple, Mr. Neil Lewis, Miss Marion, Mr. Mertz, Mr. Morrison, Mr. Russell Nelson, Mr. Michael O'Brien, Mr. Olsen, Mr. William Paul, Mr. Pistono, Mr. Rumsey, Mr. Sigmund, Mr. Skelton, Mr. Soroka, Mr. Stielstra, Mr. Walker, Mr. Wick, Mr. Wrone, Mr. Zieger.

A. A major in History consists of at least 36 credits:

1. History 211-212 and twelve additional credits to consist of two two-semester sequences, selected from among the following: History 105-106, History 107-108, History 215-216.

2. If a student omits either the sequence History 105-106, or the sequence History 107-108, he shall elect six advanced credits in that area of history.
3. A total of at least eighteen advanced credits distributed as follows:
 - a. A concentration of eight credits in one of the following fields:
 1. European History: History 301, 302, 304, 305, 307, 308, 309, 310, 311, 314, 315, 316, 319, 320, 321, 322, 323, 324, 325, 326, 327, 330, 331, 332, 333, 334, 335, 339, 340, 399, 490.
 2. Non-Western History: History 337, 338, 343, 345, 346, 347, 348, 349, 350, 352, 353, 354, 399, 490. Latin American studies 423 may also apply toward this requirement.
 3. United States History: History 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 382, 384, 385, 387, 388, 389, 399, 490.
 - b. At least eight advanced credits divided between the two fields not elected for concentration.
 - c. History 489 or 490, taken during the senior year.
4. For teacher certification in secondary education, at least ten credits of U. S. History must be taken, including History 211-212.
5. Geography 102-103, Political Science 101, and Economics 200 are recommended as corollary courses, but are not required.

B. A minor in History consists of at least 24 credits:

1. History 211-212 and six additional credits to consist of one two-semester sequence selected from among the following: History 105-106, History 107-108, History 215-216. If a student omits the sequences History 105-106 and History 107-108, he shall elect six advanced credits in European History.
2. A concentration of six advanced credits in European, Non-Western, or United States History under A, 3a, above.
3. At least six advanced credits divided between the two fields not elected for concentration.

The adviser will assist the student in selecting a balanced program which will provide a rounded knowledge of the subject in relation both to time and location.

History 101. Historical Background of the New Testament. One credit. Historical background of the New Testament and its composition. Corequisite: Concurrent registration in Greek 105.

History 102. Historical Background of the New Testament. One credit. Continuation of History 101, with emphasis on selected problems. Corequisite: Concurrent registration in Greek 106.

History 104. Ancient History. Three credits. History and civilization of the ancient Near East, Greece, and Rome.

History 105. Medieval History. Three credits. Europe from the fourth century to the twelfth century.

History 106. Medieval History. Three credits. Europe from the twelfth century to the sixteenth century. Prerequisite: History 105 or consent of instructor.

History 107. Modern European History. Three credits. Europe from the sixteenth century to the nineteenth century.

History 108. Modern European History. Three credits. Europe in the nineteenth and twentieth centuries.

History 211. United States History. Three credits. The United States to 1865. Prerequisite: Sophomore standing.

History 212. United States History. Three credits. The United States since 1865. Prerequisite: Sophomore standing.

History 215. East Asia. Two or three credits. A survey of East Asian civilizations, their institutional and cultural development to the nineteenth century. Prerequisite: Sophomore standing.

History 216. East Asia. Two or three credits. East Asia in the nineteenth and twentieth centuries. Prerequisite: Sophomore standing.

History 219. A Survey of the Middle East from the Rise of Islam to 1798. Three credits. Islamic Civilization from Mohammed through the decline of the Ottoman Empire.

History 220. The Middle East since 1798. Three credits. Development of the Mid-

dle East from the Napoleonic invasion of Egypt to the present.

History 301/501. History of Western Culture. Three credits. The nature of civilization, the development of the practical and fine arts, of government and of human communication, from Pre-history through the Roman period.

History 302/502. History of Western Culture. Three credits. Continuation of History 301, from the Roman period to contemporary times.

History 304/504. Greek History. Three credits. The history of Ancient Greece.

History 305/505. Roman History. Three credits. The history of Ancient Rome through the Republic and Empire.

History 307/507. Problems in the Early Middle Ages. Two or three credits. Selected problems of the Early Middle Ages, such as: manorial and feudal origins, the Pirenne thesis, church and state under Gregory VII, the Cluny movement; Charlemagne and the Papacy; includes research and preparation of a paper on a selected topic. Prerequisite: History 105 or consent of instructor.

History 308/508. Problems in the High Middle Ages. Two or three credits. Selected problems of the High Middle Ages, such as: the rise of Gothic art, church and state under Frederick II, the impact of the crusading movement, the rise of capitalism, the conciliar movement, Medieval English constitutional development; includes research and preparation of a paper on a selected topic. Prerequisite: History 106, or consent of instructor.

History 309/509. The Medieval Church. Three credits. The history of Western Christianity in the Middle Ages.

History 310/510. Medieval Thought and Letters. Three credits. Intellectual history of Europe from the fourth century to the fifteenth century.

History 311/511. Europe in the Age of the Crusades. Two or three credits. Europe and the Mediterranean world; the inception of European expansion; the Crusades and their consequences.

History 314/514. Expansion of Europe, 1415-1660. Two or three credits. European powers and their colonies during the age of the great discoveries.

History 315/515. The Renaissance. Two or three credits. The politics, the arts, the literature, and recovery of the classics during the fourteenth and fifteenth centuries.

History 316/516. The Age of the Reformation. Two or three credits. The Protestant and Catholic reformations of the sixteenth and seventeenth centuries.

History 319/519. Economic History of Europe. Three credits. Development of agricultural, commercial, and industrial institutions of Europe, from the fourth century to 1750.

History 320/520. Economic History of Europe. Three credits. Continuation of History 319, from 1750 to the present.

History 321/521. European Social and Intellectual History. Three credits. The development of social and intellectual movements in Europe, from the Renaissance to the Enlightenment.

History 322/522. European Social and Intellectual History. Three credits. Continuation of History 321, from Romanticism to the present.

History 323/523. European Diplomatic History, 1500-1815. Two or three credits. A survey of major problems in European diplomacy from the Renaissance to the end of the Napoleonic era.

History 324/524. European Diplomatic History, 1815 to the Present. Two or three credits. A survey of the major problems in European diplomacy from the Congress of Vienna to the present.

History 325/525. History of Science. Three credits. From the Greeks to Galileo.

History 326/526. History of Science. Three credits. Since Galileo.

History 327/527. History of Recent World Politics. Three credits. Selected topics in world history, 1919 to the present. Prerequisite: History 108 and 212.

History 330/530. England in the Middle Ages. Three credits. History of England from Anglo-Saxon times to 1485.

History 331/531. History of England. Two credits. Tudor and Stuart England; the beginning of modern England, 1485-1714.

History 332/532. History of England. Two credits. England since 1714.

History 333/533. The French Revolution and Napoleon. Two or three credits. The revolutionary period in Europe and the beginnings of our modern democratic ideals.

History 334/534. History of France Since 1815. Two or three credits. The political, economic, and cultural history of France from the Congress of Vienna to the present.

History 335/535. History of Germany, 1860 to Date. Three credits. An analysis of Imperial and Republican Germany; the National Socialist State and the period following World War II.

History 337/537. Russian History and Civilization. Three credits. From the tenth century to the eighteenth century; an analysis of Kievan Russia, early Russian principalities, and the rise of Moscow, with emphasis on Byzantine and Mongolian influences.

History 338/538. Russian History and Civilization. Three credits. The nineteenth and twentieth centuries; Tsarist Russia, its background, institutions and problems; a survey of the Communist Revolution, the USSR between the two World Wars, in World War II, and after.

History 339/539. Eastern and Central Europe. Three credits. History of eastern and central Europe from origins to the Congress of Vienna.

History 340/540. Eastern and Central Europe. Three credits. History of eastern and central Europe in the nineteenth and twentieth centuries.

History 343/543. Africa South of the Sahara. Three credits. History of European contact with Africans in the nineteenth and twentieth centuries; policies of assimilation and separate development; the independence of African states; federation and pan-Africanism.

History 345/545. History of China. Three credits. Chinese civilization, thought, and institutions to 1644; development of a Confucian state; the rise of gentry society; the influence of foreign invasions.

History 346/546. History of China. Three credits. China since 1644; political, social, economic, and cultural conflict of

the Chinese with the West; the transition to Communist society.

History 347/547. History of Japan. Three credits. Japanese culture and institutions to 1854; assimilation of Chinese influence; the development of feudalism; unification, Tokugawa control and the system of exclusion and seclusion.

History 348/548. History of Japan. Three credits. Japan since 1854; Western influence, modernization, the rise to world-power status, and imperialism; the rise of militarism, World War II, and post-war development.

History 349/549. History of Korea. Three credits. Korean culture and institutions to 1800; Korea's pivotal role in East Asia; Chinese influence, unification and growth of the state; foreign invasions and domination.

History 350/550. History of Korea. Three credits. Korea since 1800; the end of isolation; power rivalries, Western influence and Japanese annexation; independence struggles, division, the Korean War and after.

History 352/552. Independent Mexico. Two or three credits. The development of Mexico from the Wars of Independence to the present, with emphasis on the Reform Era and the Revolution of 1910.

History 353/553. History of Latin America. Two or three credits. Colonial Latin America from the discoveries to independence.

History 354/554. History of Latin America. Two or three credits. Recent Latin America from independence to the present.

History 356/556. Colonial Era. Two or

three credits. History of the American Colonies to the American Revolution.

History 357/557. Era of the American Revolution. Two or three credits. History of the transition from colony to republic, 1763-1787.

History 358/558. The Early National Period. Three credits. Framing and ratification of the Constitution; the Washington administration; the Hamilton program; the Adams Federalists; Jeffersonian democracy; the War of 1812.

History 359/559. The Age of Jackson. Three credits. The Era of Good Feelings; the election of 1824; J. Q. Adams; Jacksonian democracy; the nullification controversy; the Whigs; the Bank War; the later Jacksonians.

History 360/560. The Era of Controversy. Two or three credits. The history of the United States from 1840 to 1860.

History 361/561. Civil War and Reconstruction. Two or three credits. The history of the United States from 1860 to 1877.

History 362/562. United States History, 1877-1917. Three credits. The age of enterprise, world power, and reform.

History 363/563. United States History, 1917-1933. Two or three credits. World War, peace, normalcy, and depression.

History 364/564. United States History, 1933-1945. Two or three credits. The New Deal, foreign policy, global war, and peace.

History 365/565. United States History Since 1945. Two or three credits. Diplomatic, political, economic, social, intellectual, and constitutional development since World War II.

History 366/566. Resource Development and Policy in the United States. Three credits. Development of the agricultural, mineral, forest, and water resources of the United States, including conservation practices and public policies, since the Colonial era.

History 367/567. The American Frontier. Three credits. A study of westward expansion to the Mississippi valley and frontier problems.

History 368/568. The American West. Three credits. A study of westward expansion from the Mississippi valley to the Pacific Ocean.

History 369/569. History of the South. Three credits. The Old South; social and cultural history to 1865.

History 370/570. History of the South. Three credits. The New South; social and cultural history since the Civil War.

History 371/571. Economic History of the United States. Three credits. American economic life through the Civil War.

History 372/572. Economic History of the United States. Three credits. American economic life since the Civil War.

History 373/573. Constitutional History of the United States. Two or three credits. Origin and elaboration of colonial theories and practices; evolution of guarantees for personal liberty; constitutional development to 1877.

History 374/574. Constitutional History of the United States. Two or three credits. Constitutional development since the Civil War.

History 375/575. History of American Diplomacy. Three credits. Foundations

of America's foreign policy during the late eighteenth and nineteenth centuries to 1881.

History 376/576. History of American Diplomacy. Three credits. Relations of the United States with the rest of the world from 1881 to the present.

History 377/577. American Social and Intellectual History. Two or three credits. The development of social and intellectual movements in the United States to 1865.

History 378/578. American Social and Intellectual History. Two or three credits. The development of social and intellectual movements in the United States since the Civil War.

History 379/579. Negro Americans. Three credits. A study of the contributions of black Americans to United States History, their institutional life, and the impact of society upon their development, from the colonial period to 1915.

History 380/580. Negro Americans. Three credits. Continuation of History 379, from 1915 to the present.

History 382/582. The North American Indian. Three credits. The history of the North American Indian from earliest times to the present.

History 384/584. The History of American Military Institutions. Three credits. The role of the military in American life from the colonial period to the present.

History 385/585. The American Woman. Three credits. A social-intellectual history of the American woman from the colonial period to the present.

History 387/587. American Reform Movement. Two or three credits. A

study of American ideas and institutions of reform, including concern for human rights, accompanying the social and cultural criticism of the emerging industrial order from the early nineteenth century.

History 388/588. Representative Americans. Two credits.

History 389/589. Wisconsin. Two or three credits. History of Wisconsin from 1634 to the present.

History 399. Special Work. Upper class students majoring or minoring in History may, by agreement with the chairman of the History Department, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week or its equivalent, devoted exclusively to a special project.

History 489. Great Historians and the Sense of History. Two credits. A study of the great historians and their conceptions of history based on readings from their works. Required of all senior history majors; open to others with the consent of the department chairman.

History 490. Selected Historical Problems. Two or three credits. An integrative course for analysis of a selected problem(s) common to two or more areas or periods of history. Open to students with senior standing majoring or minoring in History. Open to other seniors with the consent of the department chairman. The specific problem(s) to be treated will be announced in advance each semester.

History 701. Great Issues in Western History. Three credits. Discussion of selected issues in European and American history based upon a study of the sources. Open to experienced teachers who have met the introductory lower

division course requirements in history and the social studies and who have not had similar work.

History 707. Life in the Middle Ages. Three credits. The social history of western medieval Europe. Each student will present a paper on a particular aspect of medieval society.

History 711. English Medieval Constitutional Developments. Three credits. The development of English institutions of government and law from the Anglo-Saxon period to the advent of the Tudor Dynasty. Prerequisite: History 106 or equivalent.

History 717. Soviet Russia from 1917 to the Present. Three credits. The Union of Soviet Socialist Republics, its political, social and economic changes, its place in the Second World War and post-war relations.

History 720. Recent World Politics. Three credits. An intensive investigation of selected topics in world history since 1919. Readings and discussions, with assessment of the worth of specific sources and writers in the topics considered. Prerequisite: History 108 and History 212 or equivalent.

History 746. Problems in the Civil War and Reconstruction. Three credits. The causes of the Civil War; problems in the North and South during the war; changes during the period of post-war reconstruction, 1865-1877; and the resulting problems. The relationship of the above to contemporary developments in regard to civil rights and the South, and a survey of the historiography of the subject, including work of representative historians will be stressed.

History 748. American Society in Transition 1865-1914. Two or three credits.

Selected topics chosen from the period in which the people of the United States were moving from a relatively unsophisticated agricultural society into a more complex urban and capitalistic culture.

History 751. The United States in the Second World War. Two or three credits. The social, economic, intellectual, constitutional, political, military, and diplomatic history of the United States, participation in World War II.

History 752. The United States Since the Second World War. Two or three credits. Developments in the history of the United States in recent times in the social, economic, constitutional, political, military, and diplomatic areas.

History 755. Key Issues in American Constitutional Development. Three credits. Constitutional backgrounds in the United States. The role of the Supreme Court in constitutional development. Consideration of key constitutional issues such as states rights, civil rights, the nature and use of executive power.

History 771. European Historians. Three credits. Theory and methods in the writing of European history. Special attention is given to the methods, purposes, interpretations, ideas and work of leading historians.

History 773. American Historians. Three credits. Theory and methods in the writing of American history. Special attention is given to the methods, purposes, interpretations, ideas, and works of leading historians.

History 780. Historical Method. Three credits. Securing and evaluating historical evidence. Construction of historical papers based upon various kinds of source and secondary materials.

History 782. Seminar in American History. Three credits. (The specific topic will be indicated each time the seminar is offered.)

History 784. Seminar in European History. Three credits. (The specific topic will be indicated each time the seminar is offered.)

History 786. Seminar in Non-Western History. Three credits. (The specific

topic will be indicated each time the seminar is offered.)

History 796. Independent Study. One to three credits. Planned study designed to enrich and supplement the student's preparation in his area of specialization. Regularly scheduled conferences with a staff supervisor.

History 799. Thesis. Two to six credits.

HOME ECONOMICS

Mrs. Jones, Assistant Dean of the School of Home Economics; Mrs. Baird, Mrs. Barsness, Mrs. Callahan, Mr. Chandler, Mrs. Clifford, Mr. Cutting, Miss Doris Davis, Miss Doescher, Miss Febock, Mrs. Feldman, Miss Hendel, Miss Hill, Miss Horn, Mr. Hosie, Miss McDonald, Mrs. Miller, Mrs. Pankowski, Mrs. Randall, Miss Sell, Mrs. Sylvester, Mrs. Alice White.

A. A major in Home Economics Education consists of:

1. Core courses to total 22 credits, as follows: Home Economics 101, 102, 104, 211, 261, 366, 371, 485.
2. Additional required courses to total 18 credits: Home Economics 212, 233, 323, 345, 353, 381, and electives to total 18. (Home Economics 103 and 105 are also required unless the student is exempt by a proficiency test.)
3. Required collateral courses: Biology 101 or 160, 281; Chemistry 101 or 103; Economics 200; Home Economics Education 394.
4. Sociology 101 is recommended but not required.

B. A major in Early Childhood Education consists of:

1. Core courses to total 43 to 46 credits, as follows:

- a. Education and Psychology, 22 credits: Education 242, 301, 381, and ten credits of 398; Psychology 200.
- b. Home Economics, 12 credits: Home Economics 101 or Art 101; Home Economics 261 or Psychology 260; Home Economics 351 or 353; Home Economics 361 or Education 241.
- c. Required support courses—select nine credits: Communicative Disorders 266 (3 cr.), 380 (3 cr.); Education 351 (3 cr.), 353 (3 cr.); Physical Education 231 (3 cr.).

2. Home Economics option, 21 credits: Home Economics 104, 105, 211, 364, 366, 371, 467; Physical Education 252.

Vocational certification is optional. If elected, the following additional work is required: Home Economics 394, 395; and Home Economics 793 or Education 383.

The Provisional certificate requires 2,000 hours of work experience; and the Standard certificate requires three years of successful teaching and 4,000 hours of work experience.

For a more complete description, see the section headed EARLY CHILDHOOD EDUCATION.

C. A major in Food and Nutrition is available in four options:

1. Dietetics:

- a. Core courses, 16 credits selected from the following, with Home Economics 104 required: Home Economics 101, 102, 104, 211, 261, 366, 371, 485.
- b. Twenty-four credits selected from the following: Home Economics 105, 345, 347, 353, 377, 383, 448, 455, 457.
- c. Required collateral courses, 31-33 credits: Biology 101 or 160, 281, 333; Chemistry 105 and 106 or 115 and 116, 160; Economics 200; Business 210.
- d. Choice of one course each from (1) and (2), five or six credits:
 - (1) Business 370 or Psychology 270.
 - (2) Education 381 or Home Economics Education 392.

2. General Food and Nutrition:

- a. Core courses, 22 credits: Home Economics 101, 102, 104, 211, 261, 366, 371, 485.
- b. Eighteen credits selected from the following: Home Economics 105, 345, 347, 353, 377, 381, 383, 446, 448, 455, 457.
- c. Required collateral courses, 37-39 credits: Biology 101 or 160, 281, 333; Chemistry 105 and 106 or 115 and 116, 160; Economics 200.

3. Experimental Food and Nutrition:

- a. Core courses, 16 credits selected from the following, with Home Economics 104, 261, and 371 required: Home Economics 101, 102, 104, 211, 261, 366, 371, 485.
- b. Twenty-four credits selected from the following: Home Economics 105, 345, 353, 381 or 383, 446, 448, 455, 457, and two credits of electives in Home Economics.
- c. Required collateral courses, 28-30 credits: Biology 101 or 160, 281, 333; Chemistry 105 and 106 or 115 and 116, 160; Economics 200.

- d. Choice of one of the following, 2 or 3 credits: Economics 330; Education 381 or Home Economics Education 392.

4. Food Service Management:

- a. Core courses, 16 credits selected from the following, with Home Economics 104 required: Home Economics 101, 102, 104, 211, 261, 366, 371, 485.
- b. Twenty-four credits selected from the following: Home Economics 105, 345, 347, 353, 377, 383, 448, 449, 455, or 457.
- c. Required collateral courses, 37-39 credits: Biology 101 or 160, 281, 333; Chemistry 105 and 106 or 115 and 116, 160; Business 210, 311, 370; Economics 200.
- d. Choice of one of the following, three credits: Business 320, 340; Economics 345; Psychology 270.

Note: Fulfilling the degree requirements in options 1, 3, and 4, and completing an American Dietetics Association approved internship will satisfy the requirements for membership in the American Dietetics Association.

D. A major in Home Economics in Business is available in four options:

1. Communication:

- a. Home Economics 101, 102, 103, 104, 105, 211, 212, 233, 322, 333, 366, 371 (or Economics 323), and electives to total 42 credits.
- b. Communication 105, 107, 110 or 217, 119 and electives to total 21 credits. Communication 101 may not be included among courses used to complete the Communication minor.
- c. Collateral courses, three credits: Economics 201.

2. Fashion Merchandising:

- a. Home Economics 101, 102, 103, 233, 301, 303, 322, 323, 329, 330, 333, 371, 397, 416, to total at least 39 credits.
- b. Collateral courses, 18 credits: Art 102; Business 211, 330, 370 (or Psychology 270); Communication 110 or 217; Economics 201.

3. Food and Equipment:

- a. Home Economics 101, 102, 104, 105, 301, 345, 351 or 353, 371, 381, 397, 446, 450, 492, to total at least 35 credits.
- b. Collateral courses, 16 credits: Biology 281; Business 330, 370 (or Psychology 270); Communication 110 or 217; Economics 201.

4. Housing and Interiors:

- a. Home Economics 101, 102, 211, 212, 233, 301, 309, 311, 330, 371, 412, 413, 416, and additional electives in studio or related art to total at least

47 credits, selected with the consent of the Assistant Dean of the School of Home Economics.

- b. Collateral courses, nine credits: Art 102; Communication 110 or 217; Economics 201.

A student in this major will take Chemistry 101, 103, 105, or 115; Biology 101 or 160; Economics 200; and a course in Sociology to meet the Science and Social Studies requirements.

- E. A minor in Home Economics** consists of at least 24 credits in Home Economics, including Home Economics 101, 102, 104, 211, 261, 366, 371, and three credits of Home Economics electives.

A minor is not required in the School of Home Economics. However a student may elect a minor in any field. If a minor is elected, the education techniques course in that minor should be taken if the student plans to teach. If a Chemistry minor is elected, Chemistry 105 and 106, or 115 and 116, should be substituted for Chemistry 101 or 103. If a Biology minor is elected, Biology 130 and 160 should be substituted for Biology 101.

There is no "teaching" minor in Home Economics.

- F.** Cooperative relations have been established with Merrill-Palmer Institute of Human Development and Family Life in Detroit, Michigan, to give Home Economics majors an opportunity to study there for one semester, for which credit will be given at UW-Stevens Point. Students must be seniors or second semester juniors, have a high academic record, and be recommended by the Assistant Dean of the School of Home Economics.

Areas of Study in Home Economics:

Child Development and Family Relations: Home Economics 116, 261, 361, 366, 397, 399, 467, 490.

Family Economics and Management: Home Economics 371, 381, 397, 399, 485, 490.

Food, Nutrition, and Institution Management: Home Economics 104, 105, 345, 347, 351, 353, 377, 383, 397, 399, 446, 448, 449, 450, 455, 457, 490.

Housing and Interiors: Home Economics 101, 211, 212, 301, 303, 309, 311, 397, 399, 412, 413, 416, 490.

Textiles and Clothing: Home Economics 102, 103, 233, 322, 323, 324, 329, 330, 333, 397, 399, 490.

See also course listings under **Home Economics Education** in the next section of the catalog.

Home Economics 101. Color and Design. Three credits. Fundamentals of color and design in relation to personal and home problems. One hour lecture, four hours laboratory per week. Students may not receive credit for both Home Economics 101 and Art 101.

Home Economics 102. Selection of Clothing for Men and Women. Two credits. Art principles related to the selection of fabric and style for individuals; evaluation of apparel in terms of aesthetic, economic, and social needs.

Home Economics 103. Clothing Construction. Three credits. Study and application of basic principles of clothing construction as related to fabric, style, and fit. One hour lecture, four hours laboratory per week.

Home Economics 104. Human Nutrition and Food Preparation. Three credits. Introduction to the field of food and nutrition; nutrients essential to human life and well-being; their functions in metabolism and their sources in food; application of this information to the significant relationship between food preparation, food habits, and health.

Home Economics 105. Human Nutrition and Food Preparation Laboratory. Two credits. Basic ingredients and techniques used in food preparation with emphasis on theory; food preparation stressing nutritive value and the management of money and time. Four hours laboratory per week. Prerequisite: Home Economics 104 or concurrent registration.

Home Economics 107. Food and Man. Three credits. Role of food and nutrition affecting man's food habits and beliefs; cultural, socio-psychological, and economic aspects.

Home Economics 116. Family Health. One credit. Principles of individual and family health techniques applicable to care of sick and injured at home. Prerequisite: Sophomore standing.

Home Economics 211. Housing and Interior Design. Three credits. Matrix as-

pects, regulations, psychological, and economic factors of housing; design elements applied to space relationships and furnishings to create a satisfying environment. Prerequisite: Home Economics 101 or Art 101.

Home Economics 212. Housing and Home Furnishings Laboratory. Two credits. Studio problems in housing and home furnishings; field trips. Four hours laboratory per week. Prerequisite: Home Economics 211 or concurrent registration.

Home Economics 233. Textiles. Three credits. From fiber to finished fabric; recognition, testing, purchase, use and care of textiles. Two hours lecture, two hours laboratory per week. Prerequisite: Sophomore standing.

Home Economics 261. Development of the Young Child. Three credits. Principles and research findings with implications for the guidance of young children in the home and in pre-school groups; observation at the pre-school laboratory. Two hours lecture, two hours observation per week. Prerequisite: Psychology 200.

Home Economics 301. Techniques in Illustration and Display. Three credits. Application of design elements and principles in commercial display and development of creative design techniques; various media explored. Prerequisite: Art 101 or Home Economics 101.

Home Economics 303. Fashion Illustrating and Design. Three credits. Problems in designing, sketching, and rendering, as met in the professional practice of fashion illustration; execution of original designs included. Prerequisite: Home Economics 323.

Home Economics 309. History of Decorative Arts. Three credits. Historical development of furniture, textiles, and accessories, as they relate to housing and interior design. Prerequisite: Art 101 or Home Economics 101.

Home Economics 311/511. Advanced Interior Design. Three credits. Advanced studies in the application of design theory and philosophy to interior living space design.

Home Economics 322/522. Clothing Economics. Three credits. Consumer clothing problems in relation to market conditions. Prerequisite: Home Economics 102; Economics 200.

Home Economics 323. Applied Dress Design. Three credits. Study, construction, and fitting of a basic pattern using design principles as applied to flat pattern drafting; construction of a garment. One hour lecture, four hours laboratory per week. Prerequisite: Home Economics 102, 233; or consent of instructor.

Home Economics 324. Tailoring. Three credits. The application of tailoring techniques to the construction of a garment. One hour lecture, four hours laboratory per week. Prerequisite: Home Economics 323 or consent of the instructor.

Home Economics 329/529. History of Costume. Three credits. The history of costume from ancient times to the present day.

Home Economics 330. Textiles and Clothing Retailing. Three credits. Investigation of retailing factors, trade practices, and ethics involved in fashion merchandising. Prerequisite: Economics 201.

Home Economics 333/533. Experimental Textiles. Three credits. Standard procedures and equipment for testing fabrics; emphasis on research techniques. One hour lecture, four hours laboratory per week. Prerequisite: Home Economics 233; Chemistry 101 or 103; or consent of instructor.

Home Economics 345. Meal Planning and Serving. Three credits. Advanced food preparation with emphasis on meal planning, management and table service; each student has experience in demonstration and guest meal techniques. One hour lecture, six hours laboratory per week. Prerequisite: Home Economics 104; Chemistry 101 or 105 or 115.

Home Economics 347/547. Organization and Management of Food Service. Three credits. Principles of organization and management with emphasis on financial and production controls in institution food service. Prerequisite: Home Economics 104 or consent of instructor.

Home Economics 351. Elementary Nutrition. Three credits. The food needs of the individual and the foods which supply those needs, with special emphasis on the food needs of children.

Home Economics 353. Nutrition. Three credits. Dietary standards for individuals of different ages, sexes, and occupations; the contributions which different foods make to body needs and the planning of balanced meals for the family at various cost levels. Treatment of disorders in nutrition. Prerequisite: Biology 281; Home Economics 104.

Home Economics 361. Theory and Guidance of Play for Young Children. Three

credits. Theory and guidance of play activities which provide for growth through art, music, dramatic play, science, and other materials. One hour lecture, four hours of participation in pre-school laboratory per week. Prerequisite: Home Economics 261 or Psychology 260 or consent of instructor.

Home Economics 364. Administration of Early Childhood Education Programs. Two credits. Organization and supervision including community relations, certification standards, budgeting, staffing, program design, facilities, and health protection.

Home Economics 366. Family Relationships. Three credits. Interpersonal relationships within the family at all stages in the life cycle. Prerequisite: Psychology 200 or Sociology 101 or consent of instructor.

Home Economics 371. Family Economics and Management. Three credits. Factors important in individual and family buying; evaluation of consumer information; management and economics principles in relation to use of resources.

Home Economics 377/577. Institution Purchasing. Two credits. Principles and methods of purchasing food in quantity. One hour lecture, two hours laboratory per week. Prerequisite: Home Economics 104 or consent of instructor.

Home Economics 381/581. Equipment for the Home. Two credits. Selection, use, and care of household equipment. Lecture and laboratory, four hours per week. Prerequisite: Home Economics 371 or consent of instructor.

Home Economics 383/583. Institution Equipment and Layout. Two credits.

Selection, arrangement, installation, use, and care of various types of equipment and furnishings for institutional food service departments. Lecture and laboratory, four hours per week. Prerequisite: Home Economics 104 or consent of instructor.

Home Economics 397. Field Work. One to eight credits. A supervised training work program in a cooperating off-campus establishment; work experience and supervision followed by an evaluation of individual progress.

Home Economics 399. Special Work. Upper class students majoring in Home Economics may, by agreement with the assistant dean of the School of Home Economics, arrange for special out-of-class work for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

Home Economics 412/612. Institutional Interior Design. Three credits. Individual assigned problems in interior design; solutions, presentations, and evaluation. Prerequisite: Home Economics 212.

Home Economics 413/613. Problems of Housing. Three credits. Housing as a cultural, economic, and institutional force; future development and needs. Prerequisite: Home Economics 211.

Home Economics 416/616. Experimentation in Related Art. Three credits. Utilization of art principles and theories in the creative design of applied products such as furniture and textiles. Prerequisite: Art 101 or Home Economics 101.

Home Economics 446/646. Experimental Foods. Three credits. Application of

scientific principles and experimental procedures in food preparation. One hour lecture, four hours laboratory per week. Prerequisite: Home Economics 104; Chemistry 101 or 105 or 115; Biology 333; or consent of instructor.

Home Economics 448/648. Quantity Food Production. Three credits. Theory and application of principles in quantity food preparation and service; quality control, sanitation, recipe standardization, portion and cost control; menu planning, work simplification and merchandising of foods. One hour lecture, six hours laboratory per week. Prerequisite: Home Economics 104, 353; Chemistry 160; or consent of instructor.

Home Economics 449/649. Food Service Administration. Three credits. Consideration of advanced administrative problems through experience in food service; job analysis, labor policies, labor organization, personnel problems and financial control in relation to food service administration. One hour lecture, four hours laboratory per week. Prerequisite: Home Economics 347, 448; or consent of instructor.

Home Economics 450/650. Social and Cultural Aspects of Food. Three credits. Foods and food customs of various regional, national, and ethnic groups. Two hours lecture, three hours laboratory per week.

Home Economics 455/655. Diet Therapy. Three credits. Application of nutrition principles in the study of the dietary treatment of certain conditions and diseases. Two hours lecture, two hours laboratory per week. Prerequisite: Home Economics 104, 353; Chemistry 160.

Home Economics 457/657. Advanced Nutrition. Three credits. Chemistry of

foods and nutrition and the inter-relationships in meeting the nutritional needs in humans. Two hours lecture, two hours laboratory per week. Prerequisite: Home Economics 104, 353; Chemistry 160; or consent of instructor.

Home Economics 467/667. Parent Education. Two or three credits. Principles, procedures, and current research implications for working with parents and families. Prerequisite: Home Economics 361 or consent of instructor.

Home Economics 485. Home Management. Two credits. Emphasis on personal development and group relationships through living as a family; experiences in management of human and material resources. Residence in the Home Management House open to seniors and second semester juniors; one class period per week. Prerequisite: Home Economics 345.

Home Economics 490/690. Workshop in Home Economics. One to four credits. Workshop techniques applied to various curricular areas in Home Economics. A subtitle will be added to describe the area considered each time the course is offered.

Home Economics 492. Demonstration Techniques. Two credits. Analysis, application, and evaluation of demonstration techniques.

Home Economics 712. Perspectives in Related Art. Three credits. Philosophy, methods, and trends in the field of art as it relates to an individual in home and society; individual reading and research problems in addition to media and technique exploration.

Home Economics 719. Seminar in Housing and Home Furnishings. Three credits.

its. Critical review of current research data.

Home Economics 721. Recent Developments in Textiles and Clothing. Three credits. Recent trends in the field of textiles and clothing, with emphasis on related consumer problems.

Home Economics 729. Seminar in Textiles and Clothing. Three credits. Critical review of current research data.

Home Economics 748. Recent Advances in Food. Three credits. Developments in food and food science; legislation concerning food quality.

Home Economics 749. Seminar in Food and Nutrition. Three credits. Critical review of current research data.

Home Economics 753. Recent Advances in Nutrition. Three credits. Lectures, reports, and demonstrations dealing with recent developments in nutrition.

Home Economics 765. Issues in Family Living. Two or three credits. Investigation of current literature to determine

issues affecting the nature and variability of the family.

Home Economics 769. Seminar in Human Development and Family Relationships. Three credits. Critical review of current research data.

Home Economics 771. Current Problems in Family Economics. Two or three credits. The family role in the changing economy; providing for family financial security; individual problems.

Home Economics 779. Seminar in Home Management and Family Economics. Three credits. Critical review of current research data.

Home Economics 796. Independent Study in Home Economics. One to three credits. Planned study designed to enrich and supplement the student's preparation in his area of specialization.

Home Economics 799. Thesis. Two to six credits. Research project dealing with a specific problem in an academic area and culminating in a thesis.

HOME ECONOMICS EDUCATION

The Master of Science Degree — Home Economics Education is described in the section of the catalog on THE GRADUATE COLLEGE.

Home Economics Education 391. Curriculum for Home Economics. Three credits. Philosophy, curriculum, and evaluative materials for the home economics program K-12.

Home Economics Education 392. Techniques for Teaching Home Economics. Two credits. Techniques, materials, and administration for home economics programs K-12.

Home Economics Education 394. Philosophy of Vocational and Adult Education. Two to three credits. Philosophy, organization and administration of vocational, technical and adult education. Emphasis on programs in Wisconsin.

Home Economics Education 395/595. Introduction to Vocational Guidance. Two credits. Occupational opportunities and statutory requirements in voca-

tional and technical educational programs.

Home Economics Education 396/596. Cooperative Occupational Education Programs. Two credits. Philosophy, organization, and teaching techniques for cooperative vocational programs. Prerequisite: Student must meet requirements for admission to the Professional Education sequence.

Home Economics Education 791. Curriculum in Home Economics. Three credits. Curriculum trends, evaluation of home economics programs, principles of curriculum structuring and development of guides for teaching home economics.

Home Economics Education 792. Perspectives in Home Economics. Two or three credits. Critical analysis of recent developments in home economics education; trends in curriculum development, techniques, and materials.

Home Economics Education 793. Evaluation of Home Economics Programs. Three credits. Techniques in the analysis of occupational and homemaking programs.

Home Economics Education 798. Research in Home Economics. Three credits. Definition of problems and issues; critical examination of the research literature; planning of experimental investigation.

INSTITUTIONAL MANAGEMENT

See **Food Service Management** under the Home Economics listing.

LATIN AMERICAN STUDIES

Mr. Knowlton, adviser.

A. A major in Latin American Studies consists of 34 credits:

1. A minimum of 24 credits shall be selected in at least three fields from among the following Latin American content courses: **Anthropology** 335 (Peoples of Central and South America); **Art** 382 (History of Latin American Art); **Geography** 301 (Middle America), 329 (South America); **History** 352 (Independent Mexico), 353 (Colonial Latin America), 354 (Recent Latin America); **Latin American Studies** 399 (Special Work), 423 (Latin American Development); **Political Science** 375 and 376 (Government and Politics of Latin America); **Spanish** 332 (Latin American Civilization), 453 (Survey of Spanish American Literature).
2. The remaining credits shall be in related, non-language courses chosen in consultation with the Latin American Studies adviser.
3. In addition, four semesters of college Spanish beyond the first year level are required and may include Spanish 332 and 453.

B. A minor in Latin American Studies consists of 24 credits, at least 16 of which shall be selected from content courses and the remainder in related, non-language courses chosen in consultation with the Latin American Studies adviser.

Eight credits of Spanish beyond the first year level are strongly recommended.

Latin American Studies 399. Special Work. Upper class students majoring or minoring in Latin American Studies may, by agreement with the Latin American Studies adviser, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

Latin American Studies 423. Latin Amer-

ican Development. Three credits. An interdepartmental course in development, modernization, and institutions of Latin America; analysis of factors influencing development. A subtitle will be added to the title to describe the focus each time the course is offered. Prerequisite: Six hours of work in Latin American Studies content courses or consent of the Latin American Studies adviser.

LEARNING RESOURCES — Instructional Department

Mr. Van Dreser, chairman; Mr. Boutelle, Mr. Cone, Mr. Farlow, Mr. Gillesby, Mr. Hoffbeck, Mr. Kampenga, Mr. Lea, Mr. Robert Lewis, Miss Padden, Miss Schrup, Mrs. Steffen.

Fulfillment of the requirements for the Learning Resources minor will satisfy state licensing requirements for both school librarianship and audio-visual building coordinator. Either license may be obtained individually by meeting the requirements explained below.

A. A minor in Learning Resources consists of a minimum of 25 credits including:

1. Learning Resources 211, 222, 223, 321, 325, 331, and 332; English 275 and 375.
2. Remaining credits to be selected from Learning Resources 231, 322, 399.

B. A minor in Library Science. Meeting state licensing requirements for school librarianship, consists of a minimum of 25 credits including:

1. Learning Resources 222, 223, 321, 325, and 331; English 275 and 375.
2. Remaining credits to be selected from the Learning Resources curriculum and Bibliography 351.

C. In addition to the above: To satisfy requirements of the **School of Education** and for **state certification**, it is necessary to have two credits of Learning Resources 395 as a part of Education 398, in both of the minors described above.

The sequence of Learning Resources 222, 223, and 321 will meet the standard requirements for entrance into graduate Library Science work.

A state license for audio-visual building coordinator may be earned by completing Learning Resources 331, and 231 or 332, and 18 credits in Education.

Learning Resources 211. The Learning Resources Approach in Education. One credit. An introductory course in the development of the Learning Resources concept; a study of the purpose of Learning Resources in education pro-

cesses, its relation to the curriculum, and its contribution to the improvement of instruction on the elementary and secondary levels; functional operation of the concept through a study of the representative operating systems.

Learning Resources 222. Introduction to Reference. Two or three credits. Materials of reference that are the basis of a learning resources reference collection and service, and practice in their use as a source of information and an aid to study and teaching.

Learning Resources 223. Building Learning Resources Collections. Two or three credits. Problems and values in building library collections with full concern for all materials that have relevance to the needs of elementary and secondary schools.

Learning Resources 231. Basic Photography. Two credits. Fundamentals of black and white photography including camera, types of film, filters, the use of the light meter and darkroom; practical experience in contact printing, developing, and enlarging.

Learning Resources 321. General Cataloging and Classification. Four credits. Theory and practice of cataloging and classification of book and non-book materials; emphasis on Dewey Decimal Classification and Sears Subject Headings, with an introduction to Library of Congress classification and subject headings. Prerequisite: Learning Resources 222 and 223, or consent of instructor.

Learning Resources 322. Workshop in Learning Resources. One to three credits. Workshop techniques applied to the problems of the Learning Resources Center in elementary and secondary schools. A subtitle will be added to the title to describe the area each time the course is offered.

Learning Resources 325. Organization and Supervision of the Learning Resources Center. Three credits. The function of the Learning Resources Cen-

ter in the school; responsibilities of the Center in carrying out the aims of the curricular and extra-curricular programs; problems of administration, budget, physical facilities, and standards of service. Prerequisite: Learning Resources 211 or consent of instructor.

Learning Resources 331/531. Audio-Visual Media. Three credits. Utilization of such media as pictures, slides, motion pictures, tapes, maps, radio, and television in the communication process; self-instructional laboratory work in the operation of equipment and the production of materials.

Learning Resources 332. Local Production of Media. Two credits. Techniques in the planning and production of such media as flannel boards, filmstrips, single concept films, motion pictures, and tapes, and multi-media presentations. Prerequisite: Learning Resources 231 or 331, or consent of instructor.

Learning Resources 395. Practicum. One to five credits. Practical field experience in the operation of learning resources functions under the supervision of cooperating instructional media personnel. Practicum credits may be earned as part of the requirements for Education 398 (Student Teaching) or by other arrangements approved by the chairman of the Learning Resources department and of the Education department.

Learning Resources 399. Special Work. Students minoring in Learning Resources may, with the approval of the chairman of the Learning Resources department, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project. A maximum of two credits for such work will be acceptable for the minor in Learning Resources.

LEARNING RESOURCES CENTER

Burdette W. Eagon, Dean; Mr. Barrows, Director of Public Services; Mr. Boutelle; Mr. Buehler, Assistant Reference Librarian; Mrs. Chao, Periodicals Librarian; Mr. Cone, Motion Picture Photography; Mr. Farlow, Instructional Development; Mr. Ferguson, Assistant Cataloger; Mr. Fish, Documents Librarian; Mr. Fuchs, Producer-Director of Instructional TV; Mr. Gillesby, Head Reference Librarian; Mr. Graf, Assistant Producer-Director of Instructional TV; Mrs. Halsey, Assistant Reference-Circulation Librarian; Mr. Lacock, Director of Instructional Media Services; Miss Larson, Assistant Reference Librarian; Mr. Lea, Director of Technical Services; Mr. Michels, Assistant Cataloger; Mrs. Barbara Paul, Assistant Cataloger; Mrs. Patricia Paul, Acting Head Cataloger; Mrs. Randlett, Assistant Acquisitions Librarian; Miss Schrup, Head of Instructional Materials Center; Mrs. Soroka, Bibliography Librarian; Mrs. Steffen, Assistant Cataloger; Mr. von Rautenfeld, Assistant Cataloger; Miss Zimmer, Circulation Librarian.

LECTURE-FORUM COURSE

Mr. Lehman in charge.

Lecture-Forum 101, 102, 301, 302. Lecture-Forum Course. Each one credit. A series of weekly lectures and discussions by members of the faculty and by lecturers from outside the university. The purpose of the course is to stimulate interest in the problems of the world and to aid students in orienting themselves to that world. Each semes-

ter's offering will center around a general theme, which will be indicated by a subtitle to be added each time the course is offered. The course may be taken for two semesters for a total of two credits; two hours per week; no grade will be given except "Pass" or "Fail"; attendance is required for "Pass."

LIBRARY SCIENCE

See **Learning Resources**.

MATHEMATICS

Mr. Charles Johnson, chairman; Mr. Kenneth Brown, Mrs. Brown, Mr. Cable, Mr. Carlson, Mr. Conlon, Mr. John Johnson, Mr. Kung, Mrs. Kung, Mr. Liu, Mr. Mages, Mr. Gordon Miller, Mr. Mitter, Mr. Morris, Mr. Kenneth H. Nelson, Mr. Olson, Mr. Rice, Mr. Schoenecker, Mr. Schuh, Mrs. Schuh, Mr. Staal, Mr. Thoyre, Miss Treuenfels, Mr. Weiler, Mr. Wild.

A. A major in Mathematics consists of at least 34 credits including Mathematics 110, 111, 212, and 213. The student is required to take at least one course from each of 1 and 2:

1. Mathematics 323, 324, and 327.
2. Mathematics 330 and 331.
3. Collateral recommendation: Computer Science 106 (or demonstrated proficiency in FORTRAN programming).

The major must be completed with courses numbered 300 or above.

B. A major in Mathematics for teacher certification consists of:

1. At least 36 credits including:
 - a. Mathematics 110, 111, 212, 213, 331, 340, 351, and 380.
 - b. At least one of these: Mathematics 323, 324, or 327.
 - c. Additional courses selected from 300-level Mathematics courses to total at least 36 credits. Mathematics 330, 335, and 341 are strongly recommended.
2. Collateral requirement: Computer Science 106. This requirement may be waived by the chairman upon demonstrated proficiency in FORTRAN programming.

A student must present and maintain a minimum grade point ratio of 2.00 in mathematics for acceptance and retention as a mathematics major. Students not meeting this standard may petition the department chairman for consideration.

A maximum of three credits from among the 18 credits required in courses numbered 300 or above may be at the "D" level. For each additional credit with a grade of "D" the student must earn additional compensating credit with a grade of at least "C".

A student majoring in mathematics is required to have his advisor's signature on his study list card each time he registers.

C. A minor in Mathematics consists of 22 credits including Mathematics 110, 111, 212, and 213, and at least six credits in courses numbered 300 or above.

D. A minor in Mathematics for teacher certification consists of Mathematics 110, 111, 213, 340, 331 or 335, 225 or 351, and additional credits selected from Mathematics 212, 323, 331, 335, or 380, and Computer Science 106 to total at least 24 credits.

E. Elementary Education majors are required to take Mathematics 229, 239, and 349, and Mathematics Education 229, 239, and 349. It is strongly recommended that students include Mathematics 359 as an elective.

Definition: An acceptable high school unit in mathematics is one year's work with a grade of C or better, exclusive of "general" mathematics.

General Requirement: In the College of Letters and Science and in the College of Fine Arts, four credits of college mathematics are required for the Bachelor of Science degree. Exemption will be granted if the student presents three acceptable units of high school mathematics.

In the College of Natural Resources and in the College of Professional Studies, the student has a choice between four credits of college mathematics and one year of a foreign language. Exemption will be granted if the student presents three acceptable units of high school mathematics or two acceptable units of a foreign language.

Mathematics 103. Great Ideas in Mathematics. Four credits. Traditional and contemporary mathematical thought from aesthetic, historical, and practical viewpoints. Open only to students who present less than two acceptable units of high school mathematics, except with the approval of the chairman of the department.

Mathematics 104. Essentials of Algebra and Geometry. Two credits. Beginning algebra and geometry. Open only to students who present less than two acceptable units of high school mathematics. Does not apply toward the general mathematics requirement for a degree.

Mathematics 105. College Algebra and Trigonometry. Four credits. Beginning college algebra; trigonometric functions of acute angles. Prerequisite: Two acceptable units of high school mathematics, or Mathematics 104, or consent of the chairman of the department. Not open to students who qualify for Mathematics 107.

Mathematics 107. Integrated Algebra and Trigonometry. Four credits. Concepts of algebra and trigonometry essential to subsequent mathematics courses. Prerequisite: Three acceptable units of high school mathematics, or Mathematics 105, or consent of the chairman of the department. Not open to students who qualify for Mathematics 110.

Mathematics 108. Mathematics of Finance. Four credits. Simple and compound interest, equivalence, annuities, amortization, sinking funds, bonds, depreciation, life insurance. Prerequisite: Eligibility for Mathematics 107.

Mathematics 110. Analytic Geometry and Calculus I. Four credits. Analytic geometry of the plane; differentiation and integration of algebraic functions with some applications. Prerequisite: Mathematics 107, or four units of high school mathematics with a B average, or consent of the chairman of the department.

Mathematics 111. Analytic Geometry and Calculus II. Four credits. Analytic geometry of the plane continued; differentiation and integration of transcendental functions; integration techniques; parametric equations and vectors; additional applications. Prerequisite: Mathematics 110.

Mathematics 212. Analytic Geometry and Calculus III. Four credits. Introduction to solid analytic geometry; differentiation of functions of several variables; multiple integrals; infinite series; applications. Prerequisite: Mathematics 111.

Mathematics 213. Introduction to Linear Algebra. Four credits. Logic; set theory; vector spaces over a field; linear transformation; matrices. Prerequisite: Mathematics 111.

Mathematics 224. Calculus. Four credits. A terminal course in selected concepts and techniques having applications in biology, business, economics, psychology, and sociology. Not open to majors or minors in mathematics. Mathematics 110 and Mathematics 224 may not both be taken for credit. Prerequisite: Eligibility for Mathematics 107.

Mathematics 225. Elementary Mathematical Statistics. Three credits. Mathematical theory of the analysis of data;

frequency distributions; averages, dispersion; reliability; probability; normal distributions; moments; regression lines; simple correlation and curve fitting. Prerequisite: Eligibility for Mathematics 107.

Mathematics 229. Foundations of Arithmetic for the Elementary School Teacher. Three credits. Basic concepts of sets, logic, and number systems with special emphasis on structure. Two hours lecture and two hours laboratory per week. Prerequisite: Two acceptable units of high school mathematics, or Mathematics 104, or consent of the chairman; and concurrent registration in Mathematics Education 229. Not to be counted toward a Mathematics major or minor. Completion of Mathematics 229 and 239 fulfill the general degree requirement in mathematics in Elementary Education.

Mathematics 239. Modern Algebra for the Elementary School Teacher. Three credits. Topics selected from linear and abstract algebra with emphasis on topics directly related to the elementary school mathematics curriculum. Two hours lecture and two hours laboratory per week. Prerequisite: Mathematics 229, and concurrent registration in Mathematics Education 239. Not to be counted toward a Mathematics major or minor. Completion of Mathematics 229 and 239 fulfills the general degree requirements in mathematics in Elementary Education.

Mathematics 310. Concepts of Modern Elementary Mathematics. Four credits. Basic structures and concepts of arithmetic, algebra, and geometry. Intended primarily for prospective elementary teachers. Not to be counted toward a

Mathematics major or minor. This course not available to students enrolling as freshmen after June 1, 1971.

Mathematics 320. Differential Equations. Three credits. An introductory course treating ordinary differential equations of the first and second order; linear equations with constant coefficients; solution in series; numerical approximations; systems of ordinary equations, with certain applications. Prerequisite: Mathematics 212.

Mathematics 322. Vector Analysis. Three credits. Vector algebra; vector calculus; gradient, divergence, and curl; divergence theorem. Stokes' theorem; line and surface integrals; introduction to tensor analysis; applications. Prerequisite: Mathematics 212.

Mathematics 323. Foundations of Analysis. Three credits. The elementary topological properties of the real line and the Euclidean plane; connectedness, compactness, continuous and uniformly continuous functions. Prerequisite: Mathematics 213.

Mathematics 324. Complex Variables. Three credits. Complex numbers, functions of a complex variable; power series; elementary functions; conformal and bilinear transformations; integral theorems; Taylor and Laurent expansions; theory of residues; applications. Prerequisite: Mathematics 212.

Mathematics 327. Advanced Calculus. Three credits. Advanced treatment of infinite series, partial derivatives, exact differentials, lines, surface and volume integrals, and generalized integrals. Prerequisite: Mathematics 212.

Mathematics 330. Intermediate Linear Algebra. Three credits. Canonical forms (congruence, equivalence, similarities); applications. Prerequisite: Mathematics 213.

Mathematics 331. Abstract Algebra. Three credits. Introduction to groups, rings, fields, number systems, Euclidean domains, and polynomials. Prerequisite: Mathematics 213.

Mathematics 335. Number Theory. Three credits. Primes, composites, and divisibility; congruences and residue classes; number-theoretic functions; Diophantine equations. Prerequisite: Mathematics 111.

Mathematics 340. College Geometry. Three credits. Advanced topics in Euclidean geometry. Prerequisite: Mathematics 111.

Mathematics 341. Non-Euclidean Geometry. Three credits. The historical and logical development of hyperbolic and elliptic geometry. Prerequisite: Mathematics 111.

Mathematics 342. Projective Geometry. Three credits. Projective spaces; finite projective planes; the projective plane over the real numbers; special configurations, affine planes. Prerequisite: Mathematics 111.

Mathematics 344. Advanced Analytic Geometry. Three credits. Advanced topics in plane and solid analytic geometry. Prerequisite: Mathematics 111.

Mathematics 349. Geometry for the Elementary School Teacher. Three credits. Metric and non-metric properties of Euclidean geometry; basic concepts of non-Euclidean geometry; finite geometries. Two hours lecture and two hours

laboratory per week. Prerequisite: Mathematics 239, and concurrent registration in Mathematics Education 349. Not to be counted toward a Mathematics major or minor.

Mathematics 351. Probability and Statistics I. Three credits. An introduction to probability from a set-theoretic viewpoint, probabilities in discrete sample spaces; random variables; properties of distributions. Prerequisite: Mathematics 111.

Mathematics 352. Probability and Statistics II. Three credits. Probability density functions; moments; Student T and chi-square distributions; correlation and regression; tests of hypotheses; applications. Prerequisite: Mathematics 351.

Mathematics 359. Probability and Statistics for the Elementary School Teacher. Three credits. Concepts of probability and statistics with emphasis on topics related to the elementary school mathematics curriculum. Two hours lecture and two hours laboratory per week. Prerequisite: Mathematics 229. Not to be counted toward a Mathematics major or minor.

Mathematics 360. Numerical Analysis. Three credits. Differences and interpolation; function approximation; solution of equations; linear systems and matrices; numerical solutions of ordinary differential equations; least square approximation; quadrature. Prerequisite: Mathematics 212 and Computer Science 106, or consent of the chairman of the department.

Mathematics 372. Topology. Three credits. Topologies; topological spaces, relative topologies; separation axioms; connectedness; compactness, metrizable; continuity. Prerequisite: Mathematics 323.

Mathematics 380. Seminar in the History of Mathematics. Two credits. The historical development of selected mathematical ideas. Prerequisite: Mathematics 213.

Mathematics 390. Special Topics in Mathematics. Two or three credits. Topic and number of credits will be announced when the time table is published each semester. Prerequisite: Consent of the chairman of the department.

Mathematics 499. Special Work. Upper class students majoring in Mathematics may, by agreement with the chairman of the Mathematics Department, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project. Normally no more than three credits may be counted toward the Mathematics major.

MATHEMATICS EDUCATION

Mathematics Education 229. The Teaching of Elementary School Mathematics. One credit. Principles, aims, methods, and techniques of teaching elementary school mathematics, with emphasis upon the teaching of arithmetic. Studies and discussion of current problems in education. Prerequisite: Concurrent registration in Mathematics 229.

Mathematics Education 239. The Teaching of Elementary School Mathematics. One credit. Principles, aims, methods, and techniques of teaching elementary school mathematics with emphasis upon the teaching of algebraic concepts. Prerequisite: Concurrent registration in Mathematics 239.

Mathematics Education 319. The Teaching of Elementary School Mathematics. One credit. Principles, aims, methods, and techniques of teaching elementary school mathematics, with emphasis upon the teaching of arithmetic and geometry. Studies and discussion of current problems in education. Prerequisite: Mathematics 310, or concurrent registration in Mathematics 310.

Mathematics Education 349. The Teaching of Elementary School Mathematics. One credit. Principles, aims, methods, and techniques of teaching elementary school mathematics, with emphasis upon the teaching of geometry. Prerequisite: Concurrent registration in Mathematics 349.

MEDICAL TECHNOLOGY

Mr. Temp, Director.

A Bachelor of Science Degree in Medical Technology consists of:

A. Academic Program: Ninety credits (exclusive of required Physical Education) of on-campus study including the following:

1. General degree requirements of the **College of Professional Studies.**

2. Chemistry—twenty-three credits including the following: Chemistry 115, 116, 248 (by special permission of the Director of Medical Technology, Chemistry 105 and 106 may, in some special cases, be accepted in lieu of this sequence); Chemistry 220 and 240, or 225 and 226 and 228; Chemistry 361 or 365.

Normally, this requirement should be satisfied with Chemistry 115, 116, 220, 240, 248, and 361.

3. Biology—sixteen credits; Biology 160, 210, 281, 333.
4. Physics—ten or eleven credits: Physics 103 and 104; or 110, 211, and 212.

Normally, this requirement should be satisfied with Physics 103 and 104.

5. Mathematics and Computer Science—six credits, selected from Mathematics 107, 110 or 224, 111, 212, 225; Computer Science 106, 229.

Normally, this requirement should be satisfied with Mathematics 224 and Computer Science 106.

6. For acceptance, and for continued registration, as a candidate for this degree, a student must maintain a grade point ratio of at least 2.00 in Mathematics and the sciences.

B. Internship: On the completion of part A, the student must serve a twelve month internship in a hospital school of medical technology approved by the Council on Medical Education of the American Medical Association. The university has established affiliation agreements with the following schools of medical technology with the Director and Educational Coordinator, respectively, given courtesy appointments as University Associates:

St. Elizabeth's Hospital, Appleton, Wisconsin
James Erchul, M.D.; Robert Cihak, MT (ASCP)

St. Joseph's Hospital, Beaver Dam, Wisconsin
W. G. Richards, M.D.; Mary Ann Firehammer, MT (ASCP)

Madison General Hospital, Madison, Wisconsin
Philip Piper, M.D.; Merian C. Smith, MT (ASCP)

St. Mary's Hospital Medical Center, Madison, Wisconsin
D. M. Conners, M.D.; Shirley Armstrong, MT (ASCP)

St. Joseph's Hospital, Marshfield, Wisconsin
C. N. Reyes, M.D.; Virginia Narlock, MT (ASCP)

Doctor's Hospital, Milwaukee, Wisconsin
R. F. Lipo, M.D.; Barbara Peplinsky, MT (ASCP)

Theda Clark Memorial Hospital, Neenah, Wisconsin
Paul Gohdes, M.D.; Thom Pharmakis, MT (ASCP)

St. Anthony's Hospital, Rockford, Illinois
Robert Hilbert, M.D.; N. Eikenberry, MT (ASCP)

Swedish-American Hospital, Rockford, Illinois
P. A. Van Pernis, M.D.; Jacqueline Parochka, MT (ASCP)

St. Michael's Hospital, Stevens Point, Wisconsin
A. Milano, M.D.; Mary Lou Pierson, MT (ASCP)

Waukesha Memorial Hospital, Waukesha, Wisconsin
Robert Kascht, M.D.; B. E. Rankin, MT (ASCP)

Wausau Hospital, Inc., Wausau, Wisconsin
R. Bartholomew, M.D.; Erla Schuette, MT (ASCP)

West Allis Memorial Hospital, West Allis, Wisconsin
H. J. Conlon, M.D.; Joyce Gissel, MT (ASCP)

These affiliation agreements are effective as of March 1, 1972. An internship in a non-affiliated school of medical technology will require approval through the Director of Medical Technology of the University and the University Registrar. The director of the school in which the student interns must notify the University Registrar that the internship has been successfully completed before the degree is awarded.

MILITARY SCIENCE

Lt. Col. O'Keefe, chairman; Major Green, Captain Jacobsen, Captain Rohde.

The Military Science Department offers training leading to a commission as an officer in the United States Army Reserve. This training is designed to prepare students to enter the military service in a leadership capacity as commissioned officers and to lay the foundation for future Army leaders in time of emergency. Such training is provided concurrently with the regular undergraduate curriculum during the four or more years of study required for a Bachelor's degree. During freshmen registration all interested male freshmen will be offered a voluntary orientation on the Reserve Officers Training Corps (ROTC) at which time the Military Science program will be explained.

The four-year curriculum will provide for a progressive course of military training consisting of two years basic and two years advanced study.

Advanced study students are paid \$100 subsistence allowance for each month they are enrolled in the advance course, except for a six week period at summer camp when the student is paid at the rate of one-half of a second Lieutenant's pay. This six-week summer camp is required of all advanced study students and is normally held at Fort Riley, Kansas, between the junior and senior years.

A student may enroll in the Army ROTC two-year program at the beginning of his junior year. To qualify, a student must make application during his sophomore year, be selected by a committee composed of military and civilian members of the faculty, and attend a paid "Basic" summer camp for six weeks during the summer following his sophomore year. The ROTC curriculum for the two-year program is the same as the curriculum for the last two years of the four-year program.

The United States Army offers financial assistance in the form of four-year, three-

year, two-year and one-year scholarships for outstanding students who are interested in a career as an Army officer. The Army pays tuition, fees, books and laboratory expenses incurred by the scholarship cadets, and in addition each cadet receives \$100 per month for the duration of the scholarship.

Students may also compete in the Distinguished Military Graduate Program which permits outstanding ROTC students to apply for a Regular Army commission immediately upon graduation.

Flight training is also available to MS IV students as an extra-curricular activity. All ground and flight instruction, conducted in conjunction with the program, is paid for by the Army.

Deferments from selective service may be given to students participating in the program.

In order to qualify for a commission under the four-year program, the following courses must be taken:

Basic course: Military Science 017, 018, 027, 028, 101, 102, 211, 212. Advanced course: Military Science 037, 038, 047, 048, 301, 302, 451, 452, 453.

Military Science 101. United States Defense Establishment. One credit. Analysis of U.S. Army organization, its missions and functions in peace and wartime; principles of war and its changing aspects; goals, factors, and instruments that influence national power, their implications, and the objectives of national security and defense. Prerequisite: Consent of the chairman of the department.

Military Science 017. Leadership Laboratory. No credit. Fundamentals of leadership, drill, and exercise of command; military courtesy, discipline, and esprit de corps. Prerequisite: Consent of the chairman of the department.

Military Science 102. United States Defense Establishment. One credit. Continuation of Military Science 101. Prerequisite: Consent of the chairman of the department.

Military Science 018. Leadership Laboratory. No credit. Continuation of Mil-

itary Science 017. Prerequisite: Consent of the chairman of the department.

Military Science 211. Operations and Tactics. Two credits. Utilization of maps and aerial photographs to include terrain appreciation and evaluation; principles of offensive and defensive combat stressing fire and maneuver, communications and command control. Prerequisite: Consent of the chairman of the department.

Military Science 027. Leadership Laboratory. No credit. Continuation of Military Science 017 and 018; emphasis on functions, duties, and responsibilities of junior military leaders. Prerequisite: Consent of the chairman of the department.

Military Science 212. United States Military History. Two credits. A study of American military history emphasizing factors which contributed to the development of military art as practiced by the United States Army. Prerequisite:

Consent of the chairman of the department.

Military Science 028. Leadership Laboratory. No credit. Continuation of Military Science 027. Prerequisite: Consent of the chairman of the department.

Military Science 301. Leadership and Teaching Principles. Two credits. Principles, objectives, and techniques of leadership and methods of instruction; functions of the leader and special problems in military leadership and methods of instruction. Prerequisite: Consent of the chairman of the department.

Military Science 037. Leadership and Management I. No credit. Application of principles of leadership to the problems of platoon leaders and company commanders; development of leadership potential by participation in planning and conducting drill and ceremonies. Prerequisite: Basic course, or basic summer camp; and consent of the chairman of the department.

Military Science 302. Command and Control. Three credits. Techniques of directing and coordinating individual and military team efforts; functions of various branches in their support of the Army and its field forces; analysis of the military communications system and fundamentals of internal defense development. Prerequisite: Consent of the chairman of the department.

Military Science 038. Leadership and Management I. No credit. Continuation of Military Science 037. Prerequisite: Military Science 037 and consent of the chairman of the department.

Military Science 451. Operations, Logistics, and Administration. Three credits. Advanced instruction in management skills; processes for arriving at sound and timely decisions and translating these decisions into plans and combat orders; principles of administration and logistics. Prerequisite: Consent of the chairman of the department.

Military Science 452. Military Law. One credit. Fundamental concepts of military justice in the armed forces of the United States; requirements for a separate body of law for the military. Prerequisite: Consent of the chairman of the department.

Military Science 453. United States in World Affairs. One credit. The United States and its position in the international affairs of the world today, emphasizing analysis of power factors, competing powers, and powers and power blocks, alliances, commitments and their impact on the armed forces. Prerequisite: Consent of the chairman of the department.

Military Science 047. Leadership and Management II. No credit. Practical experience in the management of personnel through performance as a cadet officer in the conduct of formal drill and ceremonies; participation in planning and supervision of cadet activities. Prerequisite: Consent of the chairman of the department.

Military Science 048. Leadership and Management II. No credit. Continuation of Military Science 047. Prerequisite: Consent of the chairman of the department.

MUSIC

Mr. Greene, chairman; Miss Aber, Miss Barwell, Miss Bergh, Mr. Cohan, Mr. Combs,

Mr. Erlenbach, Mrs. Erlenbach, Mrs. Fang, Mrs. Gerson, Mr. Goan, Mr. Hildebrandt, Mr. Hopper, Mrs. Hopper, Mr. Keller, Mr. Larrick, Mr. Luedeke, Mr. McLott, Miss Oman, Mr. Ripplinger, Mr. Roehmann, Mr. Russo, Mr. Sanford, Mr. Kenyard Smith, Mr. Leon Smith, Mr. Stewart, Mr. Thomas, Mr. Van Nuys, Mr. Westbrook.

Special music scholarships are available to high school seniors with outstanding talent in musical performance. These scholarships are awarded each spring on the basis of special auditions held before members of the Music faculty. Information as to the date, time, and other details may be obtained from the chairman of the Music Department.

The following organizations are open to all students, on either a credit or an extra-curricular basis: **Band, Brass Choir, Choir, Madrigals, Opera Workshop, Oratorio Chorus, Orchestra, Small Ensembles.**

A. Bachelor of Music Degree.

All general requirements for the Bachelor of Music Degree in the College of Fine Arts will be completed along with the following credits in Music:

1. Theory, 12 credits: Music 110, 111, 210 and 211. Placement examination required. Students with insufficient background must take Music 109 as prerequisite.
2. Theory electives, four credits: Music 313, 314, 315, 316, 413, 414.
3. Applied music, 12 credits. (Piano, when not the major applied area, must be taken for four credits or to grade III, whichever is reached first.) A proficiency grade of V must be earned on the major instrument before graduation.
4. Ensemble, eight credits.
5. Music literature, 16 credits; Music 120, 121, 320, 321, and six credits of electives.
6. Music electives from at least two of the following groups, eight credits:
 - a. Music 310, 410.
 - b. Music 150 through 159.
 - c. Music 160 through 177.

B. Bachelor of Music Degree in Applied Music.

All general requirements listed for the Bachelor of Music Degree in the College of Fine Arts will be completed with the following exception. The Natural Science requirement (VII) may be reduced to five credits with two acceptable units of high school science, or may be eliminated with three acceptable units of high school science. An acceptable unit is one year of work with a grade of C or better.

In addition to the general requirements, 72 to 74 credits of music are required in one of the following options:

1. **Piano.** Students will be admitted to this program by audition only; they must reach a proficiency of Grade VIII in piano, and give a half recital in the junior year and a full recital in the senior year.
 - a. Applied music, 28 credits: Music 160, four credits; Music 260, 360, and 460, twenty-four credits.
 - b. Theory, 18 credits: Music 110, 111, 210, 211; and six credits from 310, 313, 314, 315, 316, 317, 410, 413, 414. Placement examination required; students with insufficient background must take Music 109 as prerequisite.
 - c. Music literature and history, 16 credits: Music 120, 121, 320, 321, 420, 421.
 - d. Piano pedagogy, two credits: Music 490.
 - e. Ensemble, eight credits.
2. **Voice.** Students will be admitted to this program by audition only; by the end of the sophomore year they must achieve a proficiency grade of III in piano and IV in voice. A half recital is required in the junior year and a full recital in the senior year. A proficiency grade of VII in voice must be reached for presentation of the senior recital and graduation.
 - a. Applied music, 28 credits: Music 162, four credits; Music 262, 362, and 462, twenty-four credits.
 - b. Theory, 17 credits: Music 110, 111, 210, 211, 317; and three credits from 310, 313, 314, 410, 413, 414. Placement examination required; students with insufficient background must take Music 109 as prerequisite.
 - c. Music literature and history, 16 credits: Music 120, 121, 320, 321, 322, 422, 423.
 - d. Vocal pedagogy, two credits; Music 491.
 - e. Vocal ensemble, nine credits.
3. **String instrument.** Students will be admitted to this program by audition only; they must reach a proficiency grade of III in piano and VII in the major instrument, and give a senior recital.
 - a. Applied music, 28 credits: Music 163 through 166, four credits; Music 263 through 266, 363 through 366, and 463 through 466, twenty-four credits.
 - b. Theory, 22 credits: Music 110, 111, 210, 211, 315, 317; and six credits from 310, 313, 314, 316, 410. Placement examination required; students with insufficient background must take Music 109 as prerequisite.
 - c. Music literature and history, 10 credits: Music 120, 121, 320, 321.
 - d. Ensemble, 12 credits.

- 4. Wind instrument.** Students will be admitted to this program by audition only; they must reach a proficiency grade of III in piano, and give a senior recital.
- a. Applied music, 28 credits; Music 167 through 176, four credits; Music 267 through 276, 367 through 376, and 467 through 476, twenty-four credits.
 - b. Theory, 22 credits: Music 110, 111, 210, 211, 315, 317; and six credits from 310, 313, 314, 316, 410. Placement examination required; students with insufficient background must take Music 109 as prerequisite.
 - c. Music literature and history, 10 credits: Music 120, 121, 320, 321.
 - d. Brass or woodwind pedagogy, two credits: Music 492 or 493.
 - e. Ensemble, 12 credits.
- 5. Theory/Composition.** Students in this program must maintain at least a B average in the first two years of music theory to be considered candidates for a degree in Theory/Composition; they must reach a proficiency grade of IV in piano and V in a major instrument.
- a. Applied music, 14 credits: Music 160 through 177, 260 through 277, 360 through 377, and 460 through 477 in any area.
 - b. Theory, 38 credits: Music 110, 111, 210, 211, 310, 311, 312, 313, 314, 315, 316, 410, 411, 413, 414. (Theory-oriented majors will elect a senior year project rather than Music 413 and 414.) Placement examination required; students with insufficient background must take Music 109 as prerequisite.
 - c. Class applied music, four credits: Music 152 through 158.
 - d. Music literature and history, 10 credits: Music 120, 121, 320, 321.
 - e. Ensemble, eight credits.
- 6. Organ.** Students will be admitted to this program only by a piano audition before the organ and piano faculty; Grade IV proficiency in piano is required. A half-recital is required in the Junior year, and a full recital (including at least three memory selections) in the Senior year. Organ proficiency of Grade VIII is required for performance in the Senior recital and for graduation.
- a. Applied music, 28 credits: Music 161 (four credits); Music 261, 361, 461. (24 credits).
 - b. Theory, 18 credits: Music 110, 111, 210, 211, 310, 311.
 - c. Music Literature and History, and Hymnology, 18 credits; Music 120, 121, 320, 321, 324, 325, 328.
 - d. Service Playing Techniques, two credits: Music 344.
 - e. Ensemble, six credits—choral area preferred.

C. Bachelor of Music in Music Literature.

All general requirements listed for the Bachelor of Science Degree in the College of Fine Arts will be completed along with the following credits in Music:

1. Theory, 12 credits: Music 110, 111, 210, 211. Placement examination required; students with insufficient background must take Music 109 as prerequisite.
2. Theory electives, four credits: Music 310, 313, 314, 315, 316, 413, 414.
3. Applied music (major), 12 credits: A proficiency grade of V must be earned on the major instrument before graduation. If piano is not the major instrument, a proficiency grade of IV on piano is required, in addition to the proficiency on the major instrument.
4. Ensemble, eight credits.
5. Music literature, 24 credits: Music 120, 121, 320, 321, 326, 327, 426, 427; and 101 or 323 or 428.

D. Bachelor of Music Degree for teacher certification.

All general requirements listed for the Bachelor of Music Degree in the College of Fine Arts will be completed along with the following credits in Music:

1. Instrumental emphasis.

- a. Theory, 12 credits: Music 110, 111, 210, 211. Placement examination required; students with insufficient background must take Music 109 as prerequisite.
- b. Orchestration, two credits: Music 315.
- *c. Applied music (major), 10 credits.
- d. Music literature, 10 credits: Music 120, 121, 320, 321.
- e. Class applied music, 10 credits (Music 152 and 153 are required).
- f. Conducting, five credits: Music 317, 385.
- g. Ensembles, seven credits: Music 142, 242, 342; or Music 143, 243, 343.
- h. Music electives, six credits: Any music course with the following exceptions: Maximum of two credits in class applied music; Music 100, 101, 109, 150, 200, 300; Ensembles; private applied music.

2. Vocal emphasis.

- a. Theory, 12 credits: Music 110, 111, 210, 211. Placement examination required; students with insufficient background must take Music 109 as prerequisite.
- b. Orchestration, two credits: Music 315.

- *c. Applied music (major), 10 credits: Voice, piano, or organ.
- **d. Applied music (minor), six credits.
 - e. Music literature, 10 credits: Music 120, 121, 320, 321.
 - f. Conducting, five credits: Music 317, 384.
 - g. Ensembles (major), seven credits: Music 141, 241, 341.
 - h. Opera Workshop, two credits: Music 180.
 - i. Music in the Junior High School, two credits: Music 382¹.
 - j. Music electives, six credits: Any music course, with the following exceptions: Private applied music; class applied music; ensembles; Music 100, 101, 109, 200, 300.

*A proficiency grade of V must be earned on the major instruments before student teaching. When piano is not the major applied area, it will automatically be the minor applied area. A piano proficiency grade of IV is required for the vocal emphasis, and a piano proficiency grade of III is required for the instrumental emphasis.

**If voice is not the major applied area, it must be the minor applied area.

E. A minor in Music consists of 22 credits, as follows:

1. Ten credits: Music 110, 111, 120, 121. Placement examination required; students with insufficient background must take Music 109 as prerequisite.
2. Six credits of Music 160 through 177 and 250 through 277.
3. Six credits of electives from at least two of the following groups:
 - a. Music 140, 141, 142, 143, 180.
 - b. Music 321, 323, 326, 327, 426, 427.
 - c. Music 210, 211, 310.

Music 100. Appreciation and History of Music. Three credits. A survey of the development of music, stressing the elements of music understanding and intelligent listening; form and design in composition. Not to be counted toward a Music major or minor, or the Bachelor of Music degree.

the Pilgrims to the present, with special emphasis on Jazz and its influence on contemporary music.

Music 109. Fundamentals of Music Theory. Two credits. A survey of the basic elements of musical structure and communication (notation, rhythm, scales, intervals, chords) and their application toward developing vocal, manual, and aural musicianship skills. Three hours per week.

Music 101. American Music. Two credits. A survey of music from the time of

Music 110. Elementary Theory. Three credits. Review of theory fundamentals, introduction to part-writing, harmonic and structural analysis in the diatonic idiom; music reading, dictation, keyboard. Prerequisite: placement examination; students with insufficient background must take Music 109.

Music 111. Elementary Theory. Three credits. Extension of written and applied musicianship skills in elementary techniques of modulation and chromaticism. Prerequisite: Music 110.

Music 120. Music Literature I. Two credits. Introduction to the more important compositions in music from the eighteenth century to the present time; required listening. Open to all students with previous experience in music.

Music 121. Music Literature II. Two credits. Symphonic literature, with emphasis on form and analysis; required listening. Open to all students with previous experience in music.

Music 130-139. First Year Small Ensembles. One credit in each of the following courses. May be repeated once for credit. Prerequisite: Consent of instructor.

Music 130. Vocal; **131.** String; **132.** Flute; **133.** Clarinet; **134.** Saxophone; **135.** Mixed Woodwind; **136.** Low Brass; **137.** Mixed Brass; **138.** Percussion; **139.** Jazz Band.

Music 140-143. First Year Large Ensembles. One credit in each of the following courses. May be repeated once for credit. Prerequisite: Consent of instructor.

Music 140. Oratorio Chorus; **141.** Choir; **142.** Orchestra; **143.** Band.

Music 150-159. Class Applied Music. Two credits in each of the following courses. The elements of each medium taught by class participation and observation.

Music 150. Piano; **151.** Voice; **152.** Violin; **153.** Low Strings; **154.** Flute; **155.** Double Reeds; **156.** Clarinet; **157.** Trumpet; **158.** Low Brass; **159.** Percussion.

Music 160-178. First Year of Applied Music. Two credits in each of the following courses. May be repeated once for credit. Prerequisite: Consent of department chairman.

Music 160. Piano; **161.** Organ; **162.** Voice; **163.** Violin; **164.** Viola; **165.** Cello; **166.** String Bass; **167.** Flute; **168.** Oboe; **169.** Clarinet; **170.** Bassoon; **171.** Saxophone; **172.** Trumpet; **173.** French Horn; **174.** Trombone; **175.** Baritone; **176.** Tuba; **177.** Percussion; **178.** Harp.

Music 180. First Year of Opera Workshop. One credit. Elements of producing, staging, directing, and participation in opera, operetta, and musical comedy. May be repeated once for credit.

Music 200. Music in Recreation. Two credits. Recreational relation of music to community activities; work with barbershop quartets, folk dancing, music for playgrounds, community singing and recreational instruments such as the ukulele and recorder. Prerequisite: Consent of instructor. Not to be counted toward a Music major or minor or toward the Bachelor of Music degree.

Music 210. Intermediate Theory. Three credits. Part-writing, harmonic and structural analysis in the chromatic idiom.

om; advanced music reading, dictation, and keyboard. Prerequisite: Music 111.

Music 211. Intermediate Theory. Three credits. Extension of theory and musicianship to the contemporary idiom; historical survey of musical form and style, with extensive use of the standard literature and individual creativity. Prerequisite: Music 210.

Music 212. Keyboard Harmony I. Two credits. The study of theory from the point of view of practical application to the keyboard with some attention to use as an accompanying medium. Prerequisite: Piano Grade 3.

Music 230-239. Second Year Small Ensembles. One credit in each of the following courses. May be repeated once for credit. Prerequisite: Music 130-139.

Music 230. Vocal; **231.** String; **232.** Flute; **233.** Clarinet; **234.** Saxophone; **235.** Mixed Woodwind; **236.** Low Brass; **237.** Mixed Brass; **238.** Percussion; **239.** Jazz Band.

Music 240-243. Second Year Large Ensembles. One credit in each of the following courses. May be repeated once for credit. Prerequisite: Music 140-143.

Music 240. Oratorio Chorus; **241.** Choir; **242.** Orchestra; **243.** Band.

Music 260-278. Second Year of Applied Music. In each of the following courses, students who are working toward the Bachelor of Music Degree in Applied Music receive four credits; other students receive two credits. May be repeated once for credit. Prerequisite: Music 160-178; and consent of department chairman.

Music 260. Piano; **261.** Organ; **262.**

Voice; **263.** Violin; **264.** Viola; **265.** 'Cello; **266.** String Bass; **267.** Flute; **268.** Oboe; **269.** Clarinet; **270.** Bassoon; **271.** Saxophone; **272.** Trumpet; **273.** French Horn; **274.** Trombone; **275.** Baritone; **276.** Tuba; **277.** Percussion; **278.** Harp.

Music 280. Second Year of Opera Workshop. One credit. Elements of producing, staging, directing, and participation in opera, operetta, and musical comedy. May be repeated once for credit. Prerequisite: Music 180.

Music 300. Music Here and Now. Three credits. A study of some of the music performed on campus each semester with particular attention to the history of the composition, its form, and the history of the form. Attendance at five concerts is required. Not to be counted toward a music minor or the Bachelor of Music degree.

Music 310. Advanced Theory I. Three credits. Contrapuntal styles of the eighteenth century including analysis and writing of examples. Prerequisite: Music 211.

Music 311. Advanced Theory II. Three credits. Contrapuntal styles of the sixteenth century including analysis and writing of examples. Prerequisite: Music 211.

Music 312. Keyboard Harmony II. Two credits. Free improvisation and improvisation of accompaniments to given melodic lines; elementary score reading at the keyboard; study in transposition and figured bass. Prerequisite: Music 212.

Music 313/513. Composition. Two credits. Exploration of twentieth century compositional techniques with projects

in short chamber forms, both vocal and instrumental. Prerequisite: Music 211 or consent of instructor.

Music 314/514. Composition. Two credits. Exploration of twentieth century compositional techniques with projects in large forms for chamber ensembles. Prerequisite: Music 211 or consent of instructor.

Music 315. Orchestration I. Two credits. Modern band and orchestra instruments in regard to their ranges, playing characteristics, physical properties, history, and advisable use. Prerequisite: Music 110.

Music 316. Orchestration II. Two credits. Arranging of music for small and large ensembles with the accent on written work to produce proper blend and color; some correlated study of examples from the masters. Prerequisite: Music 315.

Music 317. Conducting. Two credits. Problems of organizing and coaching techniques for vocal and instrumental groups; experience in conducting the college ensembles. Prerequisite: Music 110.

Music 318/518. Advanced Conducting. Two credits. Detailed work in conducting with particular attention to advanced problems, nuances, and score reading—choral. Prerequisite: Music 317 or consent of instructor.

Music 319/519. Advanced Conducting. Two credits. Same as Music 318, except—instrumental. Prerequisite: Music 317 or consent of instructor.

Music 320. History of Music. Three credits. Major events and trends in history and their effect on the culture of the

era, music in particular, from the Greeks to 1600.

Music 321. History of Music. Three credits. Same as Music 320, from 1600 to the present.

Music 322. Choral Literature. Two credits. Survey of literature for vocal ensembles with particular attention to mass, motet, and cantata.

Music 323/523. Operas and Oratorios. Two credits. Study of the great oratorios, masses, and other choral masterpieces from classics through the modern period.

Music 324/524. Organ Literature I. Three credits. A survey of the basic literature of the organ from the 14th to the late 17th Century, including the important predecessors of J. S. Bach, their styles, and the organs for which they wrote. Prerequisite: Keyboard proficiency of grade 4.

Music 325/525. Organ Literature II. Three credits. Continuation of Music 324, with emphasis on the works of J. S. Bach through the contemporary period; style analysis by means of recordings and score study, with outside research assignments. (Music 324 and 325 need not be taken in sequence.) Prerequisite: Keyboard proficiency of grade 4.

Music 326/526. Baroque Period—1600 to 1750. Three credits. Music idioms and styles of the period, with emphasis on the development and rise of new forms; music in the general culture of the period.

Music 327. Classic Period—1750 to 1800. Three credits. Same as Music 326, covering the Classic Period.

Music 328. Hymnology. Two credits. A survey of the history, form content, and purpose of the great hymns and canticles of the church, with emphasis on their liturgical significance and use in the present day service. Prerequisite: Music 320, 321.

Music 330-339. Third Year Small Ensembles. One credit in each of the following courses. May be repeated once for credit. Prerequisite: Music 230-239.

Music 330. Vocal; **331.** String; **332.** Flute; **333.** Clarinet; **334.** Saxophone; **335.** Mixed Woodwind; **336.** Low Brass; **337.** Mixed Brass; **338.** Percussion; **339.** Jazz Band.

Music 340-343. Third Year Large Ensembles. One credit in each of the following courses. May be repeated once for credit. Prerequisite: Music 240-243.

Music 340. Oratorio Chorus; **341.** Choir; **342.** Orchestra; **343.** Band.

Music 344. Service Playing Techniques. One credit. Practical application of the problems in church service playing, with introduction to the performance of liturgical forms, anthem and oratorio accompaniments, piano adaptations for the organ, modulations, transposition, improvisation, and conducting from the console. May be repeated for a maximum of two credits. Prerequisite: Music 211; Organ proficiency of Grade IV.

Music 360-378. Third Year of Applied Music. In each of the following courses, students who are working toward the Bachelor of Music Degree in Applied Music receive four credits; other students receive two credits. May be repeated once for credit. Prerequisite:

Music 260-278; and consent of department chairman.

Music 360. Piano; **361.** Organ; **362.** Voice; **363.** Violin; **364.** Viola; **365.** Cello; **366.** String Bass; **367.** Flute; **368.** Oboe; **369.** Clarinet; **370.** Bassoon; **371.** Saxophone; **372.** Trumpet; **373.** French Horn; **374.** Trombone; **375.** Baritone; **376.** Tuba; **377.** Percussion; **378.** Harp.

Music 380. Third Year of Opera Workshop. One credit. Elements of producing, staging, directing, and participation in opera, operetta, and musical comedy. May be repeated once for credit. Prerequisite: Music 280.

Music 381. Music in the Elementary School. Three credits. Techniques and theory of effective teaching skills in the primary and intermediate grades, including the fundamentals of music as applicable to each grade as studied; aims and content of public school music in relation to general curriculum. Required in the Primary and Intermediate curricula. Not to be counted toward a Music major or minor.

Music 382. Music in the Junior High School. Two credits. Theory and application of effective teaching skills in the junior high school; aims, methods, materials, planning, testing.

Music 383. Music Education Workshop. Two credits. Review of techniques in music education for the classroom teacher, with special emphasis any one semester in one of the following: music reading, rhythmic activities, creativity, listening activities, and the examination of materials.

Music 384. Advanced Choral Conducting and Rehearsal Techniques. Three

credits. Detailed study of conducting and rehearsal techniques with emphasis on organization and stylistic considerations, and the development of technical proficiencies. Prerequisite: Music 317.

Music 385. Advanced Instrumental Conducting and Rehearsal Techniques. Three credits. Experience in selecting, conducting, and rehearsing instrumental music suitable for use in elementary and secondary schools; emphasis on performance problems unique to band and orchestra instruments; required performance on secondary instruments. Prerequisite: Music 317.

Music 410. Advanced Theory III. Three credits. Formal and harmonic analysis of nineteenth century styles. Prerequisite: Music 211.

Music 411. Advanced Theory IV. Three credits. Analysis of works from each of the following twentieth century styles: neo-classicism, expressionism, total-serialism, and indeterminacy. Prerequisite: Music 211.

Music 413/613. Composition. Two credits. Exploration of twentieth century compositional techniques with projects in multi-sectional forms for large ensembles. Prerequisite: Music 211 or consent of instructor.

Music 414/614. Composition. Two credits. Exploration of twentieth century compositional techniques with projects in improvisation and experimental media. Prerequisite: Music 211 or consent of instructor.

Music 415/615. Band Arranging Techniques. Two credits. Special attention to arranging needs of high school wind ensembles with particular emphasis on production numbers, solo backgrounds, small ensembles, and accompaniments.

Music 420/620. Piano Literature I. Three credits. Study of keyboard literature from 1700 to 1825 with emphasis on major composers and their contributions to this field.

Music 421/621. Piano Literature II. Three credits. Same as Music 420, except covering the period from 1825 to the present.

Music 422/622. Voice Literature I. Two credits. Survey of solo vocal literature designed to broaden the singer's performing and teaching repertoire with special attention to vocal interpretation. Open only to voice majors.

Music 423/623. Voice Literature II. Two credits. Continuation of Music 422 with special attention to program building. Prerequisite: Music 422.

Music 424/624. Survey of Choral Literature. Two credits. A course to aid the experienced teacher in the selection and reading of solo and ensemble literature for the junior and senior high school student.

Music 425/625. Survey of Instrumental Literature. Two credits. A course to aid the experienced teacher in the selection and reading of solo and ensemble literature for the junior and senior high school student.

Music 426/626. Romantic Period—1800 to 1890. Three credits. Music idioms and styles of the period, with emphasis on the development and rise of new forms; music in the general culture of the period.

Music 427/627. Post-Romantic Period—1890 to the Present. Three credits. Same as Music 426, covering the Post-Romantic period.

Music 428/628. Music Cultures of the Pacific, the Near East, and Asia. Three credits. Survey of the basic kinds of music and musical instruments found in the major oriental civilizations and in the island cultures of the Eastern Hemisphere.

Music 429/629. Projects in Music Literature. One or two credits. Special work in music literature that will have particular significance to the student or his program. May not be repeated.

Music 430-439. Fourth Year Small Ensembles. One credit in each of the following courses. May be repeated once for credit. Prerequisite: Music 330-339.

Music 430. Vocal; **431.** String; **432.** Flute; **433.** Clarinet; **434.** Saxophone; **435.** Mixed Woodwind; **436.** Low Brass; **437.** Mixed Brass; **438.** Percussion; **439.** Jazz Band.

Music 440-443. Fourth Year Large Ensembles. One credit in each of the following courses. May be repeated once for credit. Prerequisite: Music 340-343.

Music 440. Oratorio Chorus; **441.** Choir; **442.** Orchestra; **443.** Band.

Music 460-478. Fourth Year of Applied Music. In each of the following courses, students who are working toward the Bachelor of Music Degree in Applied Music receive four credits; other students receive two credits. May be repeated once for credit. Prerequisite: Music 360-378; and consent of department chairman.

Music 460. Piano; **461.** Organ; **462.** Voice; **463.** Violin; **464.** Viola; **465.** 'Cello; **466.** String Bass; **467.** Flute; **468.** Oboe; **469.** Clarinet; **470.** Bassoon; **471.** Saxophone; **472.** Trum-

pet; **473.** French Horn; **474.** Trombone; **475.** Baritone; **476.** Tuba; **477.** Percussion; **478.** Harp.

Music 480. Fourth Year of Opera Workshop. One credit. Elements of producing, staging, directing, and participation in opera, operetta, and musical comedy. May be repeated once for credit. Prerequisite: Music 380.

Music 484/684. Musical Productions for Schools. Three credits. Designed for the public school vocal teacher who desires assistance with repertoire, vocal problems, casting, accompaniment for musical productions.

Music 485/685. Band Pageantry. Two credits. Marching and formation techniques for the street, parade, and the sport event.

Music 486/686. Theory and Practice of Instrumental Repair, Adjustment, Tuning, and Maintenance. Two credits. Beginning and intermediate work with use of tools for woodwind, brass, and percussion.

Music 490. Piano Pedagogy. Two credits. Effective skills in private and class piano, with discussion and performance of piano literature; observation of class and private instruction. Prerequisite: Piano proficiency IV.

Music 491. Voice Pedagogy. Two credits. Study of vocal teaching methods; observation of class and private instruction. Prerequisite: Voice proficiency Grade IV.

Music 492. Woodwind Pedagogy. Two credits. Methods of teaching woodwind instruments with special attention to specific problems of each instrument. Appropriate literature will be selected.

Music 493. Brass Pedagogy. Two credits. Methods of teaching brass instruments with special attention to specific problems of each instrument. Appropriate literature will be selected.

Music 499. Special Work. Upper class students majoring or minoring in Music, or those working toward a Bachelor of Music degree, may, by agreement with the chairman of the Music Department, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project in theory, conducting, composition, orchestration, or music history.

Music 710. Theory for Junior and Senior High Schools. Three credits. Latest teaching approaches for music theory including teaching machines, tape machine learning, programmed learning, and research applications, laboratory and reading projects.

Music 711. Theory. Three credits. A unifying course in the structure and materials of music, in which analysis is related to the performance and interpretation of music; musical materials drawn from small forms, 1650-1900.

Music 712. Form and Analysis. Three credits. An examination of musical forms from all periods, with emphasis on structural analysis.

Music 720. Survey of Music History. Three credits. Survey of the major periods in music history from medieval to present periods, with a study of representative major works of each period.

Music 722. Mass, Motet, Cantata. Two credits. A study of major choral forms; their beginnings and development with

careful evaluation of representative works.

Music 723. Music Literature for Junior and Senior High Schools. Three credits. The selection and presentation of classic and modern literature for young people; styles and form and their implications for teaching.

Music 750. Pedagogical Techniques for Music Teachers — Piano. Two credits. Designed to assist the experienced teacher.

Music 751. Pedagogical Techniques for Music Teachers — Voice. Two credits. Designed to assist the experienced teacher.

Music 752. Pedagogical Techniques for Music Teachers — Violin. Two credits. Designed to assist the experienced teacher.

Music 753. Pedagogical Techniques for Music Teachers — Low Strings. Two credits. Designed to assist the experienced teacher.

Music 754. Pedagogical Techniques for Music Teachers — Flute. Two credits. Designed to assist the experienced teacher.

Music 755. Pedagogical Techniques for Music Teachers — Double Reeds. Two credits. Designed to assist the experienced teacher.

Music 756. Pedagogical Techniques for Music Teachers—Clarinet. Two credits. Designed to assist the experienced teacher.

Music 757. Pedagogical Techniques for Music Teachers—Trumpet. Two credits. Designed to assist the experienced teacher.

Music 758. Pedagogical Techniques for Music Teachers—Low Brass. Two credits. Designed to assist the experienced teacher.

Music 759. Pedagogical Techniques for Music Teachers—Percussion. Two credits. Designed to assist the experienced teacher.

Music 760. Artist Course in Applied Music—Piano. Two credits. Designed to provide an opportunity for the gifted student to expand his repertoire and develop his musicianship. Eight lessons for each credit. Extensive repertoire in music literature will be explored.

Music 761. Artist Course in Applied Music—Organ. Two credits. (See course description under Music 760.)

Music 762. Artist Course in Applied Music—Voice. Two credits. (See course description under Music 760.)

Music 763. Artist Course in Applied Music—Violin. Two credits. (See course description under Music 760.)

Music 764. Artist Course in Applied Music—Viola. Two credits. (See course description under Music 760.)

Music 765. Artist Course in Applied Music—'Cello. Two credits. (See course description under Music 760.)

Music 766. Artist Course in Applied Music—String Bass. Two credits. (See course description under Music 760.)

Music 767. Artist Course in Applied Music—Flute. Two credits. (See course description under Music 760.)

Music 768. Artist Course in Applied Mu-

sic—Oboe. Two credits. (See course description under Music 760.)

Music 769. Artist Course in Applied Music—Clarinet. Two credits. (See course description under Music 760.)

Music 770. Artist Course in Applied Music—Bassoon. Two credits. (See course description under Music 760.)

Music 771. Artist Course in Applied Music—Saxophone. Two credits. (See course description under Music 760.)

Music 772. Artist Course in Applied Music—Trumpet. Two credits. (See course description under Music 760.)

Music 773. Artist Course in Applied Music—French Horn. Two credits. (See course description under Music 760.)

Music 774. Artist Course in Applied Music—Trombone. Two credits. (See course description under Music 760.)

Music 775. Artist Course in Applied Music—Baritone. Two credits. (See course description under Music 760.)

Music 776. Artist Course in Applied Music—Tuba. Two credits. (See course description under Music 760.)

Music 777. Artist Course in Applied Music—Percussion. Two credits. (See course description under Music 760.)

Music 781. New Developments in Elementary Music. Three credits. Exploring the Kodaly and Orff approaches to classroom music and their relation to current research.

Music 783. Problems in Curriculum and Supervision. Three credits. A course for the experienced teacher who is, or

will be, involved in working with curriculum as it relates to a total school program.

Music 784. Rehearsal Techniques: Choral. Three credits. Problems related to the organization and preparation of ensembles with particular emphasis to techniques of the rehearsal.

Music 785. Rehearsal Techniques: Instrumental. Three credits. Problems related to the organization and preparation of ensembles with particular emphasis to techniques of the rehearsal.

Music 786. Seminar in Music Education I. Three credits. An examination of the

aesthetic and philosophical foundations of music education; emphasis on current trends in educational thought and their implications for music education.

Music 787. Seminar in Music Education II. Three credits. A consideration of the psychological foundations of music education; emphasis on the development of teaching objectives and didactic strategies.

Music 796. Independent Study. One to three credits. Planned study designed to enrich and supplement the student's preparation in his area of specialization. Regularly scheduled conferences with a staff supervisor.

NATURAL RESOURCES

The College of Natural Resources offers courses in **Forestry, Natural Resources, Soils, Water, and Wildlife**. These courses are described under appropriate headings elsewhere in this section of the catalog. The majors and minors which are offered in **Forestry, Outdoor Education, Resource Management, Soil Science, Water Resources, and Wildlife** are described under those headings. Students in these majors must meet the general degree requirements of the College of Natural Resources.

In addition to the general requirements of the College of Natural Resources, the following should be noted:

1. Most of the courses in the College of Natural Resources numbered 300 and above require a student to have completed the introductory courses in Natural Resources, Forestry, Soils, Water, and Wildlife, as well as the Summer Camp courses. It is therefore important that a student complete the required introductory courses and summer camp before the beginning of the first semester of the junior year.
2. The courses taken to fulfill a specific major (such as Wildlife—Game Management) must be approved by the student's adviser prior to graduation. It is therefore imperative that each student work with an adviser in choosing his course sequence.

A. A major in Resource Management consists of:

1. Twenty-six credits including Forestry 120; Natural Resources 170, 371, 372, 490; Soils 260; Water 180; Wildlife 140. The remaining credits must be elected from courses offered by the Natural Resources department.

2. Twenty-eight to thirty-two credits in collateral courses: Biology 130, 160, 205; Chemistry 105 and 106, or 115 and 116; Geography 103 or Geology 104; Mathematics 105 or 107 or eligibility for 110.

3. Six credits of Summer Camp courses: Forestry 320, Soils 360, Wildlife 340.

B. A minor in Resource Management consists of 22 credits including Forestry 120, Natural Resources 474, Soils 260, Water 180, Wildlife 140; the remaining credits must be elected from courses offered by the Natural Resources department numbered 300 and above.

C. The Master of Science Degree—Natural Resources is described in the section of the catalog on THE GRADUATE COLLEGE.

Natural Resources 090/390. Nature Interpretation in Central Wisconsin. No credit/two credits. (A written report involving approximately thirty hours of research and study outside of class is required for credit in the course.) First-hand acquaintance with the major ecological areas of central Wisconsin, key plants and animals, their interrelationships, and the effect of man's activities. Morning on-campus, afternoon field trips on six Saturdays during the fall semester (9:00 a.m. to 4:00 p.m.).

Natural Resources 091/391. Nature Interpretation Agencies, Areas, and Issues. No credit/two credits. (A written report involving approximately thirty hours of research and study outside of class is required for credit in the course.) A panoramic survey of the major public agencies, private organizations, interpretive areas, books and periodicals involved in conservation and nature interpretation. Mornings on-campus, afternoon field trips on five successive Saturdays during the spring semester (9:00 a.m. to 4:00 p.m.), plus a final weekend field trip.

Natural Resources 092/392. Nature Interpretation Activities. No credit/two credits. (A written report involving approximately thirty hours of research and study outside of class is required for

credit in the course.) One week (six consecutive days) during the summer session in a situation simulating a school camp; an intensive program of field activities and crafts for nature study and outdoor recreation. For teachers, youth group leaders, and others interested in outdoor nature activities with young people.

Natural Resources 170. Introduction to Natural Resources. One credit. Introduction to natural resources with emphasis on their integrated management and their role in man's social and economic welfare. Open to all students.

Natural Resources 171. Elementary Surveying. Three credits. Use of the tape, compass, level, and transit; U.S. land system; simple maps, traverse closure, and area computations; profiles, stadia, plane table. One hour lecture, six hours laboratory per week. Prerequisite: Mathematics 105 or equivalent training in trigonometry.

Natural Resources 370/570. Resource Management for Environmental Quality. Three credits. A study of natural, social, and economic factors influencing the quality of man's environment; fulfills the requirements for those who need a conservation course for teacher certification. Not open to majors or minors in

the College of Natural Resources. Two hours lecture, two hours laboratory per week.

Natural Resources 371/571. Conservation Administration. Two credits. Administrative principles and organizational structure of private, local, state, and federal conservation agencies.

Natural Resources 372/572. Resource Economics. Three credits. Fundamental economics concepts and their application to resource use; traditional and revised theories of land use; problems of land policy management.

Natural Resources 373/573. Agronomy. Three credits. Grain and forage crops, with emphasis on management practices. Two hours lecture, two hours laboratory per week. Prerequisite: Summer Camp or consent of instructor. Purchase of a \$3.50 laboratory manual is required.

Natural Resources 390. Nature Interpretation in Central Wisconsin. Two credits. See Natural Resources 090.

Natural Resources 391. Nature Interpretation Agencies, Areas, and Issues. Two credits. See Natural Resources 091.

Natural Resources 392. Nature Interpretation Activities. Two credits. See Natural Resources 092.

Natural Resources 473/673. Resource Policy and Law. Three credits. Legislation pertaining to natural resources with consideration given to the need for, purpose of, and implementation of such laws.

Natural Resources 474/674. Integrated Resource Management. Three credits. Integrated management of resources

with emphasis on combinations of principles prerequisite to the formulation and implementation of natural resources policy; special attention to current issues, problems, trends. Prerequisite: Forestry 120, Soils 260, Water 180, Wildlife 140.

Natural Resources 475/675. International Environmental Studies Seminar. Three or six credits. See **Field Seminar Program**, which is described below.

Natural Resources 490. Natural Resources Seminar. One credit. Individual and group investigation of current problems in conservation. Prerequisite: Senior standing for majors or minors in Natural Resources.

Natural Resources 499. Special Work. Upper class students majoring or minoring in the College of Natural Resources, who have demonstrated above average academic ability, may, by agreement with the Assistant to the Dean of the College of Natural Resources, arrange for special independent study in their interest area, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

Natural Resources 790. Ecological Basis for Planning & Design. Three credits. Ecological principles, relationships and interaction between natural and man-made elements of the environment; critical review of various resource planning projects at local, state and national levels. Prerequisite: Consent of instructor.

Natural Resources 791. Urban and Regional Planning Practices. Three credits. The history and analysis of major current problems facing public and quasi-public planning agencies; review

of past, current and possible solutions in area resource management.

Natural Resources 792. Park Administration. Three credits. Study of parks and related areas including historical, economic, and social factors; philosophy, history and current developments in recreational area and park administration at local, state, regional and national levels, as well as private and commercial enterprises.

Natural Resources 793. Principles and Practice of Environmental Interpretation. Three credits. Principles and techniques involved in programs employed to communicate the values of natural history and cultural features to visitors; planning, construction, and use of interpretive devices, exhibits, museums, and related outdoor facilities.

Field Seminar Program

The Field Seminar Program is designed to acquaint students with research and management activities not available to them through campus and summer camp experiences. The program will be conducted as extended tours of areas and facilities pertinent to the appropriate resource discipline.

Forestry 493/693. Forestry Field Seminar. One or two credits. (For one credit, the course will be taken on a Pass-Fail basis; for two credits, the completion of a comprehensive report on the field experiences is required.) Spring vacation tour through areas selected for intensive forest management and research facilities differing from those available in the upper Midwest; observation of silvicultural practices, managerial programs, and wood utilization techniques. Prerequisite: Consent of instructor.

Natural Resources 475/675. International Environmental Studies Seminar. Three or six credits. Study in a selected region of the world which will survey environmental problems and programs of

Natural Resources 795. Natural Resources Seminar. One credit. Reports and discussions of recent published research in resource management and related fields.

Natural Resources 796. Independent Study. One to three credits. Advanced work on a specific natural resource problem.

Natural Resources 797. Research Methods, Design & Analysis. Three credits. Principles and methods regarding design and management of natural resources experimental investigations, statistical analysis of data, and preparation of research outlines. Prerequisite: Consent of instructor.

Natural Resources 799. Thesis. (Not on Plan B.) Two to six credits.

the area; comparisons with U.S. environmental and natural resource issues. Prerequisite: Consent of instructor.

Soils 493. Soils Field Seminar. One credit. Spring vacation tour through areas selected for soils varying from those of cool, humid zone; investigation of soil genesis and morphology, land forms, vegetative types, and soil management practices. Prerequisite: Consent of instructor.

Wildlife 493. Wildlife Field Seminar. One or two credits. For one credit, the course may be taken on a pass-fail basis; for two credits, the completion of a comprehensive report on the field experience is required. Prerequisite: Consent of instructor.

Summer Camp Program

Forestry 320. Forest Measurement and Surveying. Two credits. Field practices in the application of forest measurement and surveying techniques.

Soils 360. Techniques of Soil and Water Conservation. Two credits. Field practices in the application of various soil and water conservation techniques,

including land use classification, various methods of erosion control, and public relations measures.

Wildlife 340. Techniques in Fish and Wildlife Management. Two credits. Field practices in the application of various fish and wildlife management techniques.

OUTDOOR EDUCATION

A **minor in Outdoor Education** is administered by the Natural Resources department under the general degree requirements of the College of Professional Studies. It consists of 22 credits selected from the following lists. At least 10 of these must be outside the student's major field or emphasis.

- I. Required core courses, 10-13 credits: **Biology** 109 (Nature Study); **Biology** 205 (Ecology); **Education** 350 (Outdoor Education) or **Special Studies** 310 (Outdoor Education Workshop); **Physical Education** 241 (Camp Leadership) or 343 (Group Games and Social Recreation).
- II. Additional courses selected from the following, so that the credits in I and II total at least twenty-two, and the courses elected in II are from at least two different fields:

Anthropology 111 (Prehistoric Man), 112 (Man, Culture, and Society); **Art** 103 (Drawing), 231 (Water Color), 232 (Oil Painting), 241, 341 (Crafts); **Astronomy** 311 (Introduction); **Biology** 244 (Trees and Shrubs), 277 (Ornithology), 342 (Plant Taxonomy), 372 (Natural History of Vertebrates), 379 (Field Zoology); **Communication** 320 (Group Discussion), 325 (Promotional); **Drama** 130 (Interpretive Reading), 383 (Creative Dramatics), 484 (Children's Theatre); **Education** 339 (Techniques in Social Studies), 372 (Workshop—Conservation); **English** 250 (Intermediate Composition), 324 (Romantic Movement), 328 (American Renaissance), 364 (Midwestern Literature); **Forestry** 427 (Recreational Use of Forests and Parks); **Geography** 101 (Earth Science), 102 (Weather and Climate), 211 (Wisconsin), 352 (Landforms), 353, 354 (Climatology); **History** 389 (Wisconsin); **Learning Resources** 331 (Audio-Visual); **Music** 200 (Music in Recreation); **Natural Resources** 170 (Introduction), 370 (Management for Environmental Quality); **Physical Education** 213 or 214 (Individual Sports), 241 (Camp Leadership), 342 (Community Recreation), 343 (Group Games), 352 (First Aid Instructors).

PAPER SCIENCE AND TECHNOLOGY

See **Pulp and Paper**.

PEACE STUDIES

Mr. Rumsey in charge.

Peace Studies 100/300. Dimensions of a Peaceful World. Two credits. An interdisciplinary study of alternatives to violence and war, including biological, psychological, economic, political, religious, philosophical, and humanistic alternatives. No grade will be given except Pass or Fail; attendance is required for Pass.

Peace Studies 200. Social Matrix of War. Three credits. Analysis of economic, political, and social forces which give rise to and maintain organized social conflict by means of violence, and the social dislocation resulting from warfare. Prerequisite: Sophomore standing.

Peace Studies 230. Seminar in Non-violence. Three credits. A study in the philosophy and strategies of non-violence.

Prerequisite: Sophomore standing.

Peace Studies 310. Sociology of Peace and War. Three credits. Analysis of major sociological works of peace and war, including contributions from psychology and philosophy; major plans of peace proponents including Erasmus, Kant, and Aron.

Peace Studies 399. Special Work. One to three credits. Upper class students may, by arrangement with an instructor, enroll for special work, for which credit may be allowed on the basis of one credit for each week, or it equivalent, devoted exclusively to the independent study. Written proposals for special work must be submitted to the Peace Studies Committee for approval.

PHILOSOPHY

Mr. Zawadsky, chairman; Mr. Bailiff, Mr. Billings, Mr. Callicott, Mr. Cassidy, Mr. Feldman, Mr. Herman, Miss Latta, Mr. Redmon, Mr. Schuler, Mr. Vollrath, Mr. Wenz.

A. A major in Philosophy consists of a minimum of 27 credits including:

1. Philosophy 217, 218, 221, 305, 309.
2. At least 12 additional credits in philosophy, to be selected with the advice of the departmental adviser.

B. A minor in Philosophy consists of a minimum of 18 credits, including:

1. Any two of the three History of Philosophy courses (Philosophy 217, 218, 309) and either Philosophy 221 or 305.
2. At least 9 additional credits in philosophy, to be selected with the advice of the departmental adviser.

Philosophy 100. Introduction to Philosophy. Three credits. A survey of the important problems in philosophy and

an examination of major philosophic positions, such as materialism, idealism, rationalism, empiricism, existentialism.

Not open to juniors and seniors except with consent of instructor. Not open to students who have taken Philosophy 15.

Philosophy 105. Philosophy and Religion of India and China. Three credits. An introduction to the origin and development of Indian and Chinese thought and religion, with special emphasis on Hinduism, Buddhism, Taoism, and Confucianism.

Philosophy 217. History of Philosophy: Ancient. Three credits. Philosophy from the pre-Socratics to the Stoics and Epicureans: from Thales to Marcus Aurelius. Prerequisite: Sophomore standing.

Philosophy 218. History of Philosophy: Modern. Three credits. Philosophy from the Patristic period to the eighteenth century: from St. Augustine to Immanuel Kant. Prerequisite: Sophomore standing.

Philosophy 220. Problems in Political and Social Philosophy. Three credits. A systematic analysis of the fundamental concepts of political and social theory including the concepts of the state, of law and rights, of political obligation, of authority and power, and of justice. Prerequisite: Sophomore standing.

Philosophy 221. Elementary Logic. Three credits. Problems and methods of better thinking; development of skill in detecting the more obvious logical errors. The positive aim of the course is improvement in the student's ability to critically examine descriptive discourse. Prerequisite: Sophomore standing or consent of instructor.

Philosophy 230. Introduction to Philosophy of Education. Three credits. Representative philosophic theories of edu-

cation. Prerequisite: Sophomore standing.

Philosophy 280. Environmental Ethics. Three credits. An examination of the philosophical, religious, and scientific concepts and values which have structured human attitudes toward the natural environment; alternative concepts and values will be explored. Prerequisite: Sophomore standing.

Philosophy 300. Principles of Philosophy. Three credits. Introduction to the problems and methods of philosophy; reading and discussion of the works of classical and contemporary philosophers, such as Aristotle, Descartes, Hume, Sartre, Russell. Open only to juniors and seniors with no previous course in Philosophy, except Philosophy 230.

Philosophy 303. Philosophy of Art. Three credits. An examination of traditional and contemporary theories about the nature and function of art, the processes of artistic creation and appreciation, and philosophical problems in art criticism.

Philosophy 305/505. Ethics. Three credits. A critical examination of representative ethical systems, together with an analysis of moral discourse.

Philosophy 306. Philosophy of Science. Three credits. An examination of the logical structure, concepts, and derivative "philosophic" issues of the descriptive sciences; organized with reference to physics and psychology as illustrative of the physical and behavioral sciences. Prerequisite: Three credits of philosophy or consent of instructor.

Philosophy 307. History of Philosophy: Medieval. Three credits. Examination

of the basic principles of medieval philosophy as found in the leading philosophical writers of the period, from Augustine to Ockham. Prerequisite: Three credits of philosophy, or consent of instructor.

Philosophy 309. History of Philosophy: Contemporary. Three credits. Philosophy from post-Kantian German Idealism to the present: from Hegel to Wittgenstein and Ayer. Prerequisite: Three credits of philosophy or consent of instructor.

Philosophy 310. Metaphysics. Three credits. Examination of contemporary metaphysical theories with particular attention to the relation of metaphysics and the factual sciences. Prerequisite: Three credits in philosophy or consent of instructor.

Philosophy 312. Epistemology. Three credits. An introductory study of the problems of the theory of knowledge. Prerequisite: Three credits in philosophy or consent of instructor.

Philosophy 314. Moral Issues in Law and Social Policy. Three credits. A critical study of issues common to law and morality, including morals and legislation, free speech and pornography, punishment and responsibility, medico-legal issues, the right of dissent, the concept of international law and the morality of war.

Philosophy 315. Philosophy of Law. Three credits. An introductory examination of fundamental legal institutions and concepts, the relations between law and morality, and the logic of legal reasoning. Prerequisite: Three credits in philosophy or consent of instructor.

Philosophy 316. Philosophy of History. Three credits. An investigation of his-

torical knowledge and explanation, together with an analysis of representative theories of history, e.g., Kant, J. S. Mill, Hegel, Marx, Spengler, Toynbee, Collingwood, Hempel, and Popper. Prerequisite: Three credits in philosophy or consent of instructor.

Philosophy 318. Philosophy of Language. Three credits. An introduction to the theory of meaning, with special attention given to an analysis of the nature and functions of language in human existence. Prerequisite: Three credits in philosophy or consent of instructor.

Philosophy 320. Philosophy of Religion. Three credits. An introduction to the basic problems of the philosophy of religion, including the nature of religion, religious knowledge, religious language, the problem of evil, and immortality.

Philosophy 322/522. Symbolic Logic. Three credits. Introduction to symbolic logic with particular attention to truth functions, general quantification theory, and axiomatics. Prerequisite: Philosophy 221 or consent of instructor.

Philosophy 325/525. Educational Philosophy of Experimentalism. Three credits. A study of the educational philosophy of experimentalism through an examination of the educational writings of John Dewey. Prerequisite: Three credits of philosophy.

Philosophy 330. Existential Philosophy. Three credits. Emergence and development of the movement in philosophy which takes the nature of human existence as its central theme and problem. Reading will include philosophers from Kierkegaard and Nietzsche to Sartre and Heidegger and works of literature from Dostoyevsky and Tolstoy to Camus and Sartre.

Philosophy 331/531. History of Pre-Revolutionary Russian Philosophy. Three credits. An examination of the development of Russian thought, religious and philosophic, from its Byzantine origins to the end of the nineteenth century.

Philosophy 332/532. Development of Soviet Ideology. Three credits. An examination of the sources and evolution of historical and dialectical materialism—the philosophy of the Soviet Union.

Philosophy 335. Basic Texts of Hinduism and Buddhism. Three credits. A systematic examination of Indian philosophic texts with special emphasis on Nyaya-Vaisesika, Mimamsa, Samkhya, Vedanta, Jainism, and Buddhism. Prerequisite: Philosophy 105 or consent of instructor.

Philosophy 336. Contemporary Indian Thought. Three credits. Trends in Indian thought in the 19th and 20th centuries with special emphasis on both the classical tradition and systematic thinkers of the present, e.g. Rammohan Roy, Ramakrishna, Vivekananda, Tagore,

Gandhi, K. C. Bhattacharya, and S. Radhakrishnan. Prerequisite: Philosophy 105 or consent of instructor.

Philosophy 340. American Philosophy. Three credits. The development of philosophy in America from the Transcendentalists and the St. Louis school through Royce, Pierce, James, Dewey, and Santayana.

Philosophy 490/690. Seminar. Three credits. Intensive study of a major philosophic figure or topic. A subtitle indicating the figure or topic studied will be added each time the course is offered. Prerequisite: Six credits of philosophy and consent of instructor.

Philosophy 499. Special Work. Upper class students majoring or minoring in Philosophy may, by agreement with the chairman of the Department of Philosophy, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

PHYSICAL EDUCATION

Mr. Brodhagen, chairman; Mr. Amiot, Miss Biddlestone, Mr. Blair, Mr. Bowen, Mr. Bruce Clark, Mr. James Clark, Miss Clawson, Mr. Counsell, Mr. Crandall, Mr. Gorell, Mr. Gotham, Miss Herrold, Mr. Hoff, Mr. Kasson, Mr. Krueger, Miss Mullen, Mr. O'Halloran, Mr. Renken, Miss Rimnac, Miss Schwartz, Mrs. Sigmund, Miss Spring, Mr. Ronald Steiner, Miss Tate, Mrs. Rosalind Taylor, Mr. Wicks.

A. A major in Physical Education for Women consists of 54 credits:

1. Physical Education 105, 113, 114, 115, 116, 201, 202, 213, 214, 215, 225, 252, 271, 331, 370, 372, 374, 391, 395, 396; Dance 216, and 217 or 218 or 219 or 220.
2. Sufficient additional credits in Physical Education (or Dance, as indicated) to total 44, with at least 11 credits selected from one of the following groups: (The Dance course selected under 1, above, may not be used in any of the following groups.)

a. Physical Education concentration—Physical Education 250, 343, 352, 380; Dance 217, 218, 219, 220; Psychology 315 or 320.

- b. Health concentration**—Physical Education 340, 352; Biology 333; Education 377.
 - c. Elementary School Physical Education concentration**—Physical Education 343; Dance 220; Education 350, 351; Psychology 260.
 - d. Recreation concentration**—Physical Education 241, 342, 343; Dance 217, 218, 219, 220; Art 241; Biology 309; Drama 484; Education 350; Music 200.
 - e. Dance concentration**—Dance 101, 103, 105, 209, 211, 217, 218, 219, 220, 303, 304, 309, 327.
3. Collateral courses: Biology 280, 281; Home Economics 351. (It is recommended that majors take either Chemistry 101 or Physics 101, and Biology 160.)
 4. Majors must have a valid Red Cross Senior Life Saving Certificate on graduation from the university.
 5. Majors must purchase a regulation four-piece uniform. Details will be announced during the first week of classes.
- B. A minor in Physical Education for both men and women** consists of 22 credits, in addition to Physical Education 101 or required substitutes therefor as indicated in 1 and 2:
1. Men shall take Physical Education 109, 110, 123, and 124 in place of Physical Education 101 for four credits.
 2. Women shall take Physical Education 101 for two credits, and 113 and 114 for one credit each (total four credits).
 3. The minor includes 22 credits in the following courses:
 For men and women—Physical Education 105, 213 or 214, 215, 271, 343, 391; Dance 216, 217; Biology 280.
 For men—Physical Education 111, 112, 225, 351.
 For women—Physical Education 115, 116, 252.
 The remaining credits may be selected from the following (for both men and women)—Physical Education 213 or 214, 241, 250, 331, 340, 342, 352, 370, 372, 374, 380, 395, 396, 397, 399; Dance 218, 219, 220; (and for men)—Physical Education 382, 383.

Students preparing for teacher certification with either a major or a minor in Physical Education must take Education 328 as one of their technique courses. Students who choose a minor in special fields, e.g. physical education, are required to do their student teaching in their special field area if they wish to receive institutional recommendation for state certification. Men must complete coaching experience in two different areas. Men and women who choose to be certified at both elementary and secondary levels must do student teaching at both levels.

- C.** Students with medical restrictions are expected to fulfill the four-credit requirement in physical education. Contact the department office prior to or during the first week of the first semester in school; in subsequent semesters make arrangements during the registration period.

D. Students who transfer to this university are expected to meet the physical education requirement on the basis of one credit per year; i.e. senior transfers will be required to earn one credit of Physical Education 101; juniors, two credits; sophomores, three credits; and freshmen, four credits.

All curricula require four credits of Physical Education 101 for a degree. Students will register in one section of Physical Education 101 in each of their four academic years; they may not repeat the same activity at the same level. (See also statements C and D, above.)

A veteran with at least two years of active military service may obtain a waiver of the general physical education requirement (Physical Education 101) by presenting his (or her) Armed Forces separation card, Form 214 to the chairman of the department during the first week of classes in each semester for which the waiver is sought.

A \$3.00 course fee is required for Physical Education 101, 109, 110, 111, 112, 113, 114, 115, 116, 123, 124, 201, 202, 213, 214, 215, 225, 231, 232, 331, 343, 374.

Physical Education 101. Physical Education for Men and/or Women. One credit. Developmental, individual, and recreational activities, such as fitness, archery, bowling, golf, tennis, rhythms, and aquatics will be offered in different sections. Two hours per week. Students may elect sections as class enrollments permit. Four credits of this course are required for graduation. Students may not repeat the same activity at the same level. Certain Dance courses may be substituted (See descriptions under Dance). Physical Education 109, 110, 113, 114, 123, 124, 231, and 232 may be substituted if specified in the student's curriculum or minor.

cal Education 101. A combination lecture-laboratory course dealing with such matters as diet and weight control, relaxation, exercise, movement, recreational activities, and physical problems of aging.

Physical Education 108. Physical Education for the Older Student. Two credits. A continuation of Physical Education 107, primarily for the student over 30 years of age who wishes to elect this course in place of two credits in Physical Education 101.

Physical Education 109. Team Sports for Boys and Men. One credit. Instruction in football and volleyball, with emphasis on playing skills and teaching methods. Three hours per week.

Physical Education 105. Introduction and Principles of Physical Education. Two credits. An introductory course for all Physical Education majors and minors, interpreting the history, philosophy, and principles of physical education.

Physical Education 110. Team Sports for Boys and Men. One credit. Instruction in basketball and soccer, with emphasis on playing skills and teaching methods. Three hours per week.

Physical Education 107. Physical Education for the Older Student. Two credits. Primarily for the student over 30 years of age who wishes to elect this course in place of two credits in Physi-

Physical Education 111. Foundations of Physical Education Activities (Men). One credit. Instruction in the nature of

exercise, physical conditioning, and procedural technique. Three hours per week.

Physical Education 112. Foundations of Physical Education Activities (Men). One credit. Foundations of fundamental movement patterns and basic skills, including the study of movement, structure, joint actions, biomechanical principles of movement and the application of principles in the context of sport skills and basic movement patterns. Three hours per week.

Physical Education 113. Foundations of Physical Education Activities (Women). One credit. Instruction in exercise, conditioning, tactics. Three hours per week.

Physical Education 114. Foundations of Physical Education Activities (Women). One credit. Instruction in fundamental movement patterns and basic skills. Three hours per week.

Physical Education 115. Beginning Team Sports for Girls and Women. One credit. Instruction in soccer, field hockey, and volleyball; emphasis on development of playing skills. Three hours per week.

Physical Education 116. Beginning Team Sports for Girls and Women. One credit. Instruction in basketball, softball, track and field; emphasis on development of playing skills. Three hours per week.

Physical Education 123. Team Sports for Boys and Men. One credit. Instruction in swimming and wrestling, with emphasis on playing skills and teaching methods. Three hours per week.

Physical Education 124. Team Sports for Boys and Men. One credit. Instruction in track and field and baseball, with

emphasis on playing skills and teaching methods. Three hours per week.

Physical Education 201. Advanced Team Sports for Girls and Women. One credit. Instruction in field sports and volleyball; emphasis on coaching and officiating. Three hours per week. Prerequisite: Physical Education 115.

Physical Education 202. Advanced Team Sports for Girls and Women. One credit. Instruction in basketball, softball, track and field; emphasis on coaching and officiating. Three hours per week. Prerequisite: Physical Education 116.

Physical Education 213. Individual Sports. One credit. Instruction in golf, bowling, and archery. Three hours per week. Prerequisite: Sophomore standing.

Physical Education 214. Individual Sports. One credit. Instruction in racket sports: badminton, tennis, paddle ball, and aerial tennis. Three hours per week. Prerequisite: Sophomore standing.

Physical Education 215. Beginning Tumbling and Gymnastics. One credit. Introduction to the fundamentals of men's and women's gymnastics, including tumbling and apparatus. Three hours per week. Prerequisite: Sophomore standing.

Physical Education 225. Intermediate and Advanced Gymnastic Tumbling and Apparatus. One credit. Advanced techniques in competitive gymnastics activities. Three hours per week. Prerequisite: Physical Education 215.

Physical Education 231. Physical Education for the Elementary Classroom Teacher. Three credits. A conceptual approach to gross motor development,

perception and motor patterns of children through the third grade. Lecture, collateral reading, research and field trips. Required of all students in the primary curriculum. Three hours per week plus field work.

Physical Education 232. Physical Education for the Elementary Classroom Teacher. Three credits. A continuation of Physical Education 231 with emphasis on grades four through six. Lectures, collateral reading, research and field trips. Required of all students in the intermediate-upper elementary curriculum. Three hours per week plus field work.

Physical Education 241. Camp Leadership. Two credits. Theory and practice in camp craft, problems of cabin living, counselor training, waterfront laboratory, nature study, handicrafts and special projects; field trips and supplementary reading. Prerequisite: Sophomore standing.

Physical Education 250. History and Philosophy of Physical Education. Two credits. Historical development of philosophies of physical education as influenced by the political, economic, and social conditions of various countries. Prerequisite: Sophomore standing.

Physical Education 252. Safety Procedures and First Aid. Two credits. American Red Cross first aid training with certificate issued on satisfactory completion of course; additional work in the use of supportive and therapeutic aids. Prerequisite: Sophomore standing.

Physical Education 271. Human Anatomy. Three credits. The skeletal, muscular, circulatory, respiratory, and nervous systems of the human body; designed for Physical Education majors

and minors. Prerequisite: Sophomore standing.

Physical Education 331. Physical Education for the Elementary School. Two credits. The physical education program at the elementary school level. Three hours per week. Enrollment limited to students majoring or minoring in Physical Education.

Physical Education 340. Principles and Administration of School Health Programs. Three credits. Basic principles of health education and administrative practices in all aspects of the school health program. Prerequisite: Biology 280 or consent of instructor.

Physical Education 342. Community Recreation. Two credits. Study of the problems involved in setting up recreation programs on a yearly basis.

Physical Education 343. Group Games and Social Recreation. Two credits. Quiet games, singing and folk games, and games of low organization suitable for home, school, and community recreation; supplemental to Physical Education 342.

Physical Education 351. First Aid and Athletic Training. Two credits. Causes, treatment, and prevention of injuries common to athletic activities; taping, bandaging, and discussion of such topics as fatigue, overtraining, and second wind.

Physical Education 352. First Aid Instructors. One credit. Preparation for teaching junior, standard, and advanced first aid prescribed by American Red Cross; certificate of authorization granted on satisfactory completion of course. Prerequisite: Valid advanced first aid certificate.

Physical Education 370. Kinesiology. Three credits. Study of body movement and principles which affect movement. Prerequisite: Biology 281; Physical Education 271.

Physical Education 372. Physiology of Exercise. Two credits. Effects of exercises of speed, strength, skill, and endurance; nature of muscular behavior, fatigue, breathlessness, and exhaustion; effects of exercise with respect to age, sex, and occupation. Prerequisite: Biology 281; Physical Education 271.

Physical Education 374. Adapted Physical Education. Two credits. Teaching materials of the preventive and corrective phases of physical education as applied to individual development needs of students at all school levels. Prerequisite: Biology 281; Physical Education 271.

Physical Education 380. Tests and Measurements in Physical Education. Three credits. Analysis and construction of tests, interpretation of data and measurement in physical education.

Physical Education 382. Theory of Football and Basketball. One credit. Analysis of various styles of offense and defense, strategy, conditioning, and coaching methods of football and basketball. Two hours per week. Prerequisite: Physical Education 109, 110.

Physical Education 383. Theory of Track, Baseball, and Wrestling. One credit. Theory and technique, training schedules, strategy, coaching methods, and conditioning for baseball, track, and wrestling. Two hours per week. Prerequisite: Physical Education 123, 124.

Physical Education 391. Organization and Administration of Physical Education and Athletics. Two credits. The

school program in Physical Education and Athletics; problems of the administration of gymnasias, playgrounds, pools, locker rooms, interscholastic athletics and intramurals; management of the business affairs of each type of program.

Physical Education 395. Seminar in Physical Education, Health, and Recreation. One credit. Current developments in physical education, health, and recreation. Prerequisite: Senior standing for students majoring or minoring in Physical Education.

Physical Education 396. Seminar in Physical Education, Health, and Recreation. One credit. Continuation of Physical Education 395. Prerequisite: Senior standing for students majoring or minoring in Physical Education.

Physical Education 397. Workshop in Physical Education. Three credits. Designed to give teachers an opportunity to gather new ideas and practical experiences for use in teaching situations; consideration given to the individual teachers and particular problems encountered in their own school system.

Physical Education 399. Special Work. Upper class students in Physical Education may, by agreement with the chairman of the Physical Education Department, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

PHYSICS

Miss Bainter, chairman; Mr. Blocher, Mr. Chander, Mr. Kulas, Mr. Lokken, Mr. McColl, Mr. McMillan, Mr. Razdan, Mr. Schmitz, Mr. Taylor.

- A. A major in Physics** consists of a minimum of 34 credits, including Physics 110, 211, and 212 (Physics 103 and 104 will be accepted by the chairman of the department under certain conditions) and 23 additional credits including Physics 307, 308, 411, and at least one credit of 388 or 499. The remaining credits will be selected from Physics 301, 303, 305, 315, 380, and 412. **For teacher certification**, Astronomy 311 may be elected as part of the 34 credits. Any student intending to major in Physics **must register** for acceptance as a major in the department office, preferably prior to the junior year.
- B. A minor in Physics** consists of 22 credits, including Physics 110, 211, and 212 (Physics 103 and 104 will be accepted by the chairman of the department under certain conditions); Physics 303 or 307; and 411; the remaining credits will be selected from Physics 301, 305, 308, 412, 315, 380. For teacher certification, Astronomy 311 may be elected as part of the 22 credits. Physics minors are encouraged to register in the department office.
- C. A minor in Physics, within the General Science major**, consists of 22 credits, including Physics 103, 104, 320, 321, 322; Astronomy 311. Students in this category are encouraged to register with the department.



Physics 100. Conceptual Physics. Three credits. The fundamental concepts of physics as related to man and his physical environment. Two hours lecture, two hours laboratory per week. This course may be used in partial fulfillment of Part B of the Natural Science requirement of the general degree requirements.

Physics 101. General Physics. Five credits. Fundamental principles of physics with emphasis on applications; designed for students in the Elementary Education curriculum and in general education. Not to be counted toward a major or minor in Physics. Two hours lecture, one hour quiz, four hours laboratory per week.

***Physics 103. General Physics.** Five credits. Mechanics, heat, and sound. Three hours lecture, three hours laboratory, one hour quiz per week. Prerequisite: One year of high school algebra and one year of high school geometry, or equivalent.

***Physics 104. General Physics.** Five credits. Light, electricity and magnetism, and topics in modern physics. Three hours lecture, three hours laboratory, one hour quiz per week. Prerequisite: Physics 103, or equivalent, or consent of instructor.

***Physics 110. General Physics.** Three credits. Mechanics. Prerequisite: Mathematics 110 or 211, or concurrent registration, or consent of instructor.

***Physics 211. General Physics.** Four credits. Heat, sound, and electrostatics. Two hours lecture, one hour quiz, three hours laboratory per week. Prerequisite: Physics 110 or consent of instructor.

Physics 212. General Physics. Four credits. Electricity, magnetism, optics, and modern physics. Two hours lecture, one hour quiz, three hours laboratory per week. Prerequisite: Physics 110 and 211, or consent of instructor.

Physics 220. Statics. Three credits. Principles of mechanics, force systems, equilibrium, structures, distributed forces, moments of inertia of area, friction. For students in the pre-engineering curriculum. Prerequisite: Physics 110; Mathematics 211; or consent of instructor.

Physics 221. Dynamics. Three credits. Kinematics, force-mass-acceleration relationships, work and energy, impulse and momentum, moments of inertia of mass. For students in the pre-engineering curriculum. Prerequisite: Physics 220; Mathematics 212; or consent of instructor.

*If a student receives credit for 103 and 104, he cannot receive credit for 110 and 211.

The following course will be offered in the **first semester only** in 1972-73, in 1974-75, and in 1976-77: Physics 320.

The following courses will be offered in the **second semester only** in 1972-73, in 1974-75, and in 1976-77: Physics 303, 315, 412.

The following courses will be offered in the **second semester only** in 1973-74, in 1975-76, and in 1977-78: Physics 305, 308, 321, 322, 380.

Physics 301. Electronics. Four credits. Theory, application and practice of vacuum tube and solid state devices; circuits and systems using these devices. Two hours lecture, four hours laboratory per week. Purchase of laboratory manual is required. Prerequisite: Physics 104, or 212, or consent of instructor.

Physics 303. Advanced Optics. Four credits. Principles of physical and geometrical optics. Three hours lecture, two hours laboratory per week. Prerequisite: Physics 212; Mathematics 212.

Physics 305. Advanced Mechanics. Three credits. Vectors, rectilinear and curvilinear motions, including simple harmonic and damped vibrations; rotation of rigid bodies. Prerequisite: Physics 212; Mathematics 212.

Physics 307. Electricity and Magnetism I. Four credits. Direct and alternating current circuits; transients; introduction to theory of electrostatics. Three hours lecture, two hours laboratory per week. Prerequisite: Physics 212; Mathematics 212; concurrent registration in Physics 301 is recommended.

Physics 308. Electricity and Magnetism II. Four credits. Continuation of theory of electrostatics; electromagnetics; magnetic properties of materials; Maxwell's equations. Three hours lecture, two hours laboratory per week. Prerequisite: Physics 307.

Physics 315. Thermodynamics. Three credits. Principal concepts of thermodynamics and elementary kinetic theory. Prerequisite: Physics 212; Mathematics 212.

Physics 320. Electromagnetic Spectrum. Three credits. A review of elementary electricity, magnetism, and light; more

advanced principles of electricity, magnetism, and optics; components of the electromagnetic spectrum. Not to be counted toward a major in Physics. Prerequisite: Physics 104; Mathematics 104 or 110.

Physics 321. Modern Physics. Three credits. Atomic and nuclear processes; introduction to relativity, elementary particles, and concepts of solid-state physics. Not to be counted toward a major or minor in Physics. Prerequisite: Physics 104; Mathematics 104 or 110.

Physics 322. Experimental Physics. Three credits. A study of laboratory procedures and data analysis; experiments in electricity, magnetism, optics, and modern physics. One hour lecture, six hours laboratory per week. Not to be counted toward a major or minor in Physics. Prerequisite: Physics 320 or 321 or consent of instructor.

Physics 380. Selected Topics. Three credits. Approximately six weeks of concentrated study in each of three of the following areas: solid-state physics, quantum mechanics, shop techniques, electronics, mathematical methods of physics, planetary and space physics, general relativity. The selection of topics is based on the needs of the particular group and the interest of the instructor. Prerequisite: Physics 212.

Physics 388. Research Participation. Two to four credits (re-enrollment permitted to a maximum of six credits). Investigations of current problems in physics, requiring eight to ten hours per week in the laboratory. Prerequisite: Recommendation of a staff member and approval of the research supervisor.

Physics 411. Atomic Structure I. Four credits. Atomic theory of matter: atomic

spectra, Bohr atom, Schrodinger equation, Pauli exclusion principle; quantum theory of the periodic table. Three hours lecture, two hours laboratory per week. Prerequisite: Physics 212; Mathematics 212.

Physics 412. Atomic Structure II. Four credits. Experimental and theoretical nuclear physics: radioactivity; nuclear reactions and scattering; fundamental particles. Three hours lecture, two hours laboratory per week. Prerequisite: Physics 411.

Physics 499. Special Work. Upper class students majoring or minoring in Physics may, by agreement with the chairman of the Physics Department, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

Physics 701. Physical Science. Three or four credits. An examination in depth of certain developments in physical science from the standpoint of the principles involved and the impact on man's thought and way of life. Open to teachers who feel the need for an introductory course in physical science.

Physics 783. Project Physics. Three credits. A study of the first three units of the Harvard Project Physics (HPP) curriculum dealing with the concepts of motion, astronomy, and mechanics, with emphasis on the HPP philosophy of instruction. Short lecture sections, small group discussions, and individualized laboratory work. Prerequisite: One year of college physics or consent of instructor.

Physics 784. Project Physics. Three credits. A study of the last three units

of the HPP curriculum dealing with the concepts of electricity, magnetism, optics, and atomic and nuclear physics, with emphasis on the HPP philosophy of instruction. Short lecture sessions, small group discussions, and individualized laboratory work. Prerequisite: Physics 783 or consent of instructor.

Physics 785. Introductory Physical Science. Three credits. A study of the Introductory Physical Science (IPS) curriculum; investigation of the characteristic physical properties of matter with emphasis on model building as related to molecular and atomic structure. Short lecture sessions, small group discussions, two hours laboratory per week. Open to junior and senior high school science teachers.

Physics 786. Physical Science II. Three credits. A study of the Physical Science II curriculum; investigation of the atomic and molecular structure of matter, energy, heat, electricity, magnetism, and radioactivity. Short lecture sessions, small group discussions, two hours laboratory per week. Prerequisite: Physics 785 or consent of instructor.

Physics 796. Independent Study. One to four credits. Planned study designed to enrich and supplement the student's preparation in his area of specialization. Regularly scheduled conferences with the staff instructor. Prerequisite: The student must be mature enough to be able to do independent study; the course must supplement his current graduate work.

POLISH

Courses in Polish are taught by members of the Department of Foreign Languages and Comparative Literature. Students who have demonstrated proficiency in Polish may be placed in the appropriate advanced course by the department.

Polish 101. First Year Polish. Four credits. For students with no previous training in the language.

Polish 102. First Year Polish. Four credits. Continuation of Polish 101. Prerequisite: Polish 101 or equivalent.

Polish 211. Second Year Polish. Four credits. Prerequisite: Polish 102 or equivalent.

Polish 212. Second Year Polish. Four credits. Continuation of Polish 211. Prerequisite: Polish 211 or equivalent.

Polish 293. Specialized Studies in Polish. One to three credits. Individual study under the direction of consenting faculty member. Prerequisite: Consent of the chairman of the department.

POLITICAL SCIENCE

Mr. Cates, chairman; Mr. Canfield, Mr. Christofferson, Mr. Freeman, Mr. Kudsizadeh, Mr. Morser, Mr. Oster, Mr. Ratliff, Ms. Robinson, Mr. Singh, Ms. Snider, Mr. Robert Wood, Mr. Woodka.

A. A major in Political Science consists of at least 34 credits including:

1. Political Science 101 and 102.
2. At least one advanced course from four of the following six fields:
 - a. American Government: Political Science 301, 310, 313, 316, 320, 411, 412, 414, 416, 420.
 - b. Comparative Government: Political Science 361, 366, 370, 371, 372, 375, 376, 464.
 - c. International Relations: Political Science 380, 382, 484, 488.
 - d. Political Theory: Political Science 391, 392, 395, 396, 490, 494, 495, 497.
 - e. Public Administration: Political Science 350, 351, 354, 356, 454, 455.
 - f. State and Local Government: Political Science 341, 342, 441, 442.

A minimum grade point ratio of 2.00 in courses taken within the major is a requirement for acceptance of the student as a major at the start of his junior year. The minimum 2.00 grade point ratio in courses in the major is also a requirement for the student's retention as a major during his junior and senior years and for department approval of the major for graduation. The chairman of the department may allow exceptions to this standard on a conditional basis.

B. A minor in Political Science consists of at least 22 credits, including Political Science 101 and 102, and at least one advanced course in three of the six fields listed under the major.

Political Science 101. American National Government. Three credits. Background, origins, and nature of the national constitutional and political system; emphasis on separation of powers, federalism, citizenship, judicial process and civil rights, political parties, public opinion, pressure groups, and political behavior.

Political Science 102. American National Government. Three credits. Structure, composition, and operation of the legislative and executive branches; analysis of policy making and the major executive departments.

Political Science 106. Introduction to the Politics of Developing Areas. Three credits. An introduction to developing areas with special reference to the social institutions, traditional heritage, governments and politics of selected developing countries.

Political Science 241. Local Government in Wisconsin. Two or three credits.

Two credits: Structure and function, political and administrative processes of cities, counties, school and special districts, towns and villages in Wisconsin, with comparisons with similar entities in other states; emphasis on city planning, problems of conservation and law enforcement. Not open to students who have completed more than two credits of Political Science 242. Prerequisite: Sophomore standing.

Three credits: In addition to the above, introduction to the political patterns of the State, and the political and administrative processes of Wisconsin, especially as related to state-local relations. Not open to students with credit in Political Science 242. Prerequisite: Sophomore standing.

Political Science 242. Survey of State and Local Government. Two or three credits.

Two credits: Structure, functions, and political processes of state governments; emphasis on the administrative and budgetary process; introduction to inter-governmental cooperation; emphasis on Wisconsin. Not open to students who have completed more than two credits of Political Science 241. Prerequisite: Sophomore standing.

Three credits: In addition to the above, an introduction to the structure and problems of cities, counties, special districts, towns and villages; emphasis on Wisconsin. Not open to students with credit in Political Science 241. Prerequisite: Sophomore standing.

Political Science 250. Law and Social Control. Three credits. A general introduction to the nature of law and legal processes as instruments of social control; study of applications of law in conflict resolution. Prerequisite: Sophomore standing.

Political Science 270. Introduction to Modern Politics. Three credits. Analysis of major conceptions of politics and the state; emphasis on distinctions between democratic and non-democratic systems; theoretical and comparative study of patterns and institutions of government, such as constitutions, systems of representation, majority and minority rule, and executive-administrative institutions. Prerequisite: Sophomore standing.

Political Science 280. Introduction to International Relations. Three credits. A survey of the general principles of international relations and organizations. Prerequisite: Sophomore standing.

Political Science 301. Politics and the Environment. Three credits. Analysis of the "new politics of ecology"; includes an examination of the eco-political movement, the role of the scientific community, and the response of the national government.

Political Science 310. The American Presidency. Three credits. An analysis of the development of the American chief executive, with primary emphasis on the twentieth century presidents; the nature of presidential power, its effectiveness and its limitations.

Political Science 313. The Judicial Process. Three credits. The nature and role of law and of the Judiciary in American democracy; basic American judicial concepts; judicial organization, selection, tenure, and procedure.

Political Science 316. Political Parties and Elections. Three credits. A description and critical examination of political parties and voting behavior in the United States.

Political Science 320. The Legislative Process. Three credits. An analysis of the forces and procedures that determine the formation of law and public policy in the United States.

Political Science 341. Urban Government. Three credits. Analysis of urban government in the United States; special attention to governmental structure, powers, and political patterns; problems unique to urban government; emphasis on Wisconsin. Prerequisite: A minimum of three credits in Political Science 241 and/or 242, or consent of instructor.

Political Science 342. Local Rural Government. Three credits. Critical examination of rural governmental structure

and problems; powers and limitations; functions of counties, villages, towns and special purpose districts; emphasis on Wisconsin. Prerequisite: A minimum of three credits in Political Science 241 and/or 242, or consent of instructor.

Political Science 350. Elements of Public Administration. Three credits. Theory and practice of public administration in the United States.

Political Science 351. Public Administration — Structure and Process. Three credits. Structure, work methods, and organization in governmental agencies; emphasis on line and staff agencies; administration of regulatory commissions, national and state, with emphasis on Wisconsin.

Political Science 354. Public Personnel Administration. Three credits. Problems and practices of selection, training, and organization of personnel administration; emphasis on Wisconsin.

Political Science 356. The Budgetary Process. Three credits. Determination and execution of public agency budgets; emphasis on preparation, authorization, and political considerations of the government agency budget; emphasis on Wisconsin.

Political Science 361. Major Governments of Western Europe. Three credits. Comparative study of the governments and politics of the United Kingdom, France, and the Federal Republic of Germany.

Political Science 366. Governments and Politics of the Middle East. Three credits. A comparative study of the political institutions, ideas, and modernization processes in the Arab world, Iran, Israel, and Turkey.

Political Science 367. Political Trends in the Middle East. Three credits. Major political and ideological trends in the Middle East since 1800 with special reference to the impact of Western ideas and concepts: Islamic fundamentalism and reformism, constitutionalism, modern nationalism, socialism, and secularism.

Political Science 370. Governments and Politics of South Asia. Three credits. A comparative study of the political systems of India, Pakistan, and the Himalayan Kingdoms.

Political Science 371. Government and Politics of China. Three credits. Study of governmental institutions and political processes in the People's Republic of China, with special emphasis on the role of the Communist Party.

Political Science 372. Government and Politics of Southeast Asia. Three credits. A comparative study of the political systems of some major Southeast Asian countries including Indonesia, Malaysia, and Vietnam. Not open to students who received credit in Political Science 370 prior to September, 1970, or Political Science 371 prior to September, 1971.

Political Science 375. Governments and Politics of Latin America. Three credits. Study of the political and governmental institutions of selected Latin American countries; emphasis on aspects and characteristics contributing to uniqueness of these institutions; analysis of party systems and political behavior of the area.

Political Science 376. Governments and Politics of Latin America. Three credits. Continuation of Political Science 375.

Political Science 380. International Politics. Three credits. Political relations

among modern states; forces which motivate foreign policy; the role of power; conflict between free and totalitarian systems.

Political Science 382. International Organization. Three credits. A survey of the proposals and experiments in international organizations; the League of Nations and the United Nations.

Political Science 391. American Political Thought to 1865. Three credits.

Political Science 392. American Political Thought Since 1865. Three credits.

Political Science 395. Western Political Thought. Three credits. Critical analysis of political thinkers of the Western World through the 17th century, such as Plato, Aristotle, Cicero, St. Augustine, St. Thomas Aquinas, Machiavelli, Hobbes, and Locke.

Political Science 396. Western Political Thought. Three credits. Critical analysis of political thinkers of the modern Western World, such as Montesquieu, Rousseau, Burke, Bentham, Hegel, Marx, Mill, Green, Nietzsche, Sorel, Kropotkin, Lenin, Laski, Dewey, Hitler, and Mussolini.

Political Science 411. American Constitutional Law. Three credits. Topical treatment of American Constitutional development as exemplified by Supreme Court decisions; detailed examination of selected judicial decisions interpreting the Constitution with consideration of the political and governmental implications of such decisions; constitutionalism and judicial review; the powers of the national executive, legislative, and judicial branches.

Political Science 412. American Constitutional Law. Three credits. Same as

Political Science 411, covering civil liberties and civil rights; due process of law; equal protection of the laws.

Political Science 414. National Politics — Issues and Answers. Two or three credits. An intensive analysis of selected national political issues; their origin, development, proposed solutions, and political impact.

Political Science 416. Minority Group Politics. Three credits. A study of the political behavior and impact of ethnic, religious, racial and ideological minority groups in the United States.

Political Science 420. Interest Groups in Politics. Three credits. The nature and influence of pressure groups in American politics; a critical analysis of their effect upon the democratic way of life.

Political Science 441. Government and Politics of Metropolitan Areas. Three credits. Special attention to the political and governmental problems resulting from the development of the metropolis; analysis of recent trends in the development of metropolitan governmental units. Prerequisite: A minimum of three credits in Political Science 241 and/or 242, or consent of instructor.

Political Science 442. Intergovernmental Relations. Three credits. Detailed consideration of the problems resulting from overlapping governmental units; analysis of past and current devices of intergovernmental cooperation and sources and areas of conflict; political-governmental implications of inter-governmental relations; consideration of new proposals for meeting problems of intergovernmental relations. Prerequisite: A minimum of three credits in Political Science 241 and/or 242, or consent of instructor.

Political Science 454. Problems of Local Government Administration. Three credits. Theory and practice of local government administration; contrasts and comparisons with state and national public administration; emphasis on Wisconsin. Prerequisite: Political Science 242.

Political Science 455. Problems of Local Government Administration. Three credits. Research in local government administration. The student will spend the bulk of his time working with a local governmental agency, under the supervision of the instructor. On the basis of this experience, the student will be expected to complete a research paper on a topic previously agreed on with the instructor. Prerequisite: Political Science 242 and 454.

Political Science 464. Government and Politics of the Soviet Union. Three credits. Russian national and Marxist influences on the development of the Soviet state and Soviet concept of democracy; the role of the Communist Party and the machinery of government.

Political Science 484. The Foreign Policy of the Soviet Union. Three credits. An analysis of the Russian national and Marxist bases of the foreign policy of the Soviet Union.

Political Science 488. American Policy in Asia. Three credits. A review of American involvement in the Far East and Southeast Asia, with emphasis on the period since World War II; emphasis on relationship between American popular attitudes toward Asia and American policy decisions.

Political Science 490. Selected Problems in Political Studies. Three credits. Intensive examination of problems in political thought or political activities.

Topics will be announced each semester. Open to Political Science majors with consent of instructor, and to others with consent of the Chairman of the Department; may be repeated with consent of the Chairman of the Department. Enrollment limited to 12 students.

Political Science 491/591. Militant Non-violence. Three credits. An advanced study of Ghandi's ideal community (sarvodaya), theory of social conflict, and moral equivalents of war.

Political Science 494. Communism in Asia: Strategy and Tactics. Three credits. A study of the adaptation and application of communist ideology and practice in Asian areas, with specific reference to China, North Korea, North Vietnam, India, and Indonesia.

Political Science 495. Western Political Thought. Three credits. Critical analysis of political thinkers of the contemporary Western world, such as Russell, Lippmann, Niebuhr, Maritain, Camus, Fromm, Sartre, Marcuse, Moore, Bay, Strauss, and Mills, as well as ideas of currently influential political figures.

Political Science 497. Scope and Methods of Political Science. Three credits. Examination of political science as a discipline through consideration of the materials, approaches, methods, and modes of presentation used in contemporary research.

Political Science 499. Special Work. Upper class students majoring or minor-ing in Political Science may, by agreement with the chairman of the Political Science Department, arrange for special out-of-class work for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

Political Science 714. National Politics—Issues and Answers. Two or three credits.

Political Science 747. Government and Politics of the Soviet Union. Three credits. Russian national and Marxist influences on the development of the Soviet state, the Soviet concept of democracy, the role of the Communist Party, and the formal, institutional machinery of government; a critical analysis of the Leninist, Stalinist, and post-Stalinist periods.

PSYCHOLOGY

Mr. Beck, chairman; Miss Blakeslee, Mr. Coker, Mr. Day, Mrs. Dietrich, Mr. Elsenrath, Mr. Fang, Mr. Fullerton, Mr. Albert Harris, Mr. Hekmat, Mr. Horn, Mr. Elmer Johnson, Mr. Johnston, Mr. Kortenkamp, Mr. Leafgren, Mr. Lerand, Mr. Littmann, Mr. Lowe, Mr. Lubitz, Mr. Luetke, Mr. Mosier, Mr. Naiman, Mr. Nichols, Mr. Peterson, Mr. Pohl, Mr. Scalise, Mr. Michael Stewart, Mrs. Joan Taylor, Mr. Tierney.

A. A major in Psychology consists of 31 credits, including Psychology 200, 201, 250, 300, 301, 400, 450, and at least nine additional elective credits in psychology, to be selected with the advice of an adviser in psychology. The student is encouraged to build background, including courses in biology, philosophy, computer science, sociology and anthropology.

B. A minor in Psychology consists of 18 credits in psychology, including Psychology 200.

Students wanting certification for a **teaching minor** in Psychology must elect Psychology 200, 201, 250, 300, 301, 400, 450, and 452. This is a 25 credit minor.

Psychology 200. General Psychology. Three credits. An introductory survey course in the study of experience and behavior. Prerequisite: Sophomore standing.

Psychology 201. Introduction to Experimental Psychology. Two credits. Procedures and methods for collecting and evaluating psychological data. One hour lecture, two hours laboratory per week. Prerequisite: Psychology 200 or concurrent registration therein.

Psychology 250. Psychology of Adjustment. Three credits. Nature of adjustment and the conditions related to mental health in normal persons. Prerequisite: Psychology 200.

Psychology 260. Psychology of Childhood. Three credits. Studies in child behavior and development and their implications for child-adult relationships; experiences in child study methods. Prerequisite: Psychology 200.

Psychology 270. Industrial Psychology. Three credits. Theoretical and practical psychological bases of employee morale, job analysis, selecting and training of workers, working conditions, production, supervision, merit rating, and occupational adjustment. Prerequisite: Psychology 200.

Psychology 300/500. Statistics for Psychologists. Four credits. Calculation and interpretation of measures of central tendency, variability, correlation, and regression in psychological research; hypothesis testing and estimation from large and small samples; analysis of variance and covariance; forms of experimental design. Three hours lecture,

two hours laboratory per week. Prerequisite: Psychology 200.

Psychology 301. Theories of Personality. Three credits. Theories of psychology exploring the major contemporary approaches to the study of behavior; clinical and experimental contributions to the understanding of the personality and its structure. Prerequisite: Psychology 200.

Psychology 310. Cognitive Processes. Two or three credits. Theoretical and experimental studies of thinking behavior, concept formation, symbolic processes, creativity, information theory, systems theory, decision theory, cognitive consistency theory. Prerequisite: Psychology 200.

Psychology 315. The Psychology of Adolescence. Three credits. Behavior of adolescents; emphasis on the physiological and cultural determinants of personality and consideration of the problem of adjustment encountered by youth in society. Prerequisite: Psychology 200.

Psychology 320. Social Psychology. Three credits. Social learning and social habits in relationship to the development of the social self in groups; interaction, perception, motivation, attitudes, values, communication, roles in interpersonal relations. Prerequisite: Psychology 200.

Psychology 350. Fundamentals of Psychological Testing. Three credits. Introduction to the theory of psychological testing with a consideration of the various characteristics of psychological

tests; study of the most widely used intelligence, aptitude, interest, and personality tests. Prerequisite: Two courses in Psychology.

Psychology 351. Abnormal Psychology. Three credits. Study of behavior disorders, including the psychoses, neuroses, character disorders, and mental deficiencies. Prerequisite: Psychology 250, or consent of the instructor.

Psychology 360/560. Behavior Problems in Children: Prevention and Modification. Three credits. The nature and origin of behavior problems in children, and an examination of strategies for their prevention and modification. Prerequisite: Psychology 260 or consent of instructor.

Psychology 399. Special Work. Upper class students majoring or minoring in Psychology may, by agreement with the chairman of the Psychology Department, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

Psychology 400. Experimental Psychology. Four credits. Theory of measuring human behavior; research techniques and methodology; experimental approaches to sensation, perception and learning. Three hours lecture, three hours laboratory per week. Prerequisite:

Psychology 200; Psychology 300 or consent of the instructor.

Psychology 450/650. Learning. Three credits. A survey of simple and complex learning, including conditioning, sensory-motor learning, language learning, problem-solving, with emphasis on contemporary theories. Prerequisite: Psychology 200.

Psychology 451. Motivation and Emotion. Three credits. The nature and development of emotion, attitude, motive, and the role of these processes in thinking and behavior. Prerequisite: Psychology 200.

Psychology 452. Contemporary Viewpoints. Three credits. A systematic view of psychology through an examination of the major systems including structuralism, behaviorism, gestalt, and psychoanalysis; current trends in theory. Prerequisite: Psychology 400, and 450 or 451, or consent of the instructor.

Psychology 480/680. Behavior Modification. Three credits. Survey of theories, researches, and clinical application of a broad spectrum of behavioral principles to the treatment, amelioration, and prevention of behavior disorders; emphasis on such topics as systematic and semantic desensitization, impulsive and operant inter-personal therapies, as well as on other current and emerging innovations in behavior modification. Prerequisite: Psychology 200.

PUBLIC ADMINISTRATION

The interdepartmental minor in Public Administration is administered by the Political Science department. It is designed for the student who is interested in graduate study in the field of Public Administration, or in training for the more technical aspects of governmental service or of the various research and consulting agencies.

A minor in Public Administration consists of 30 credits including:

1. Political Science 101 and 102, or 242 and 454.
2. Political Science 350 or 351.
3. Political Science 354 or 356.
4. Political Science 341 or 342 or 441 or 442.
5. Economics 311.
6. Sociology 260 or 300.
7. Remaining credits to be chosen from the following, in consultation with the coordinator: Biology 280; Business 380; Economics 315, 328, 345; Forestry 427; Geography 373; Mathematics 110; Natural Resources 371, 372, 474; Sociology 270, 311, 366.

PULP AND PAPER (Paper Science and Technology)_____

The Pulp and Paper major is administered by the Chemistry Department, under the general degree requirements of the College of Professional Studies.

Mr. Kocurek, Director.

A major in Pulp and Paper (Paper Science and Technology), in the College of Professional Studies, consists of:

1. Pulp and Paper courses to total 27 credits as follows: Pulp and Paper 090, 091, 317, 405, 406, 407, 418, 430, 470, 480, 490, 491.
2. Courses in Chemistry to total 23 to 31 credits as follows: Chemistry 115, 116 (or 105, 106); 248 (or 240); 225, 226, 228 (or 220); 330 (or 335, 336, 338); 372.
3. Collateral courses to total 34 credits as follows: Mathematics 110, 111, 112, and 225 or 351; Physics 110, 211, 212; Computer Science 106; Wildlife 441; Economics 200.

Pulp and Paper 090. Pulp and Paper Mill Experience I. No credit. In order to gain practical experience, students in the pulp and paper major are required to work in a pulp and paper mill for ten weeks, preferably between the sophomore and junior years. Prerequisite: Sophomore standing.

Pulp and Paper 091. Pulp and Paper Mill Experience II. No credit. Continuation of Pulp and Paper 090; a second

ten-week work period with emphasis on a technical aspect of the industry, recommended between the junior and senior years. Prerequisite: Sophomore standing.

Pulp and Paper 101. Introduction to Pulp and Paper Processes. Two credits. A survey of the history and technological development of the pulp and papermaking processes, with emphasis

on present technology and use of forest, air, and water resources; field trips to observe commercial equipment of the pulp and paper industry.

Pulp and Paper 317. Chemical Engineering Unit Operations I. Three credits. Introduction to the basic principles of unit operations with emphasis on heat and material balances, fluid flow, properties of steam, and evaporation, as applied to the manufacture of pulp and paper. Two hours lecture, three hours laboratory per week. Prerequisite: Chemistry 330 or 335.

Pulp and Paper 405. Pulping, Bleaching, and Recovery Processes. Four credits. Chemistry and unit operations of the major pulping, bleaching, and recovery processes; interrelations between raw materials, process variables, and the final pulp and paper properties. Three hour lecture, three hours laboratory per week. Prerequisite: Pulp and Paper 317, 372; Mathematics 225.

Pulp and Paper 406. Unit Operations of Papermaking Systems. Three credits. Dynamics of sheet formation and water removal; analysis of the papermaking process in terms of heat and material balances performed on a commercial Fourdrinier. One hour lecture, six hours laboratory per week. Prerequisite: Pulp and Paper 405, 418.

Pulp and Paper 407. Paper Properties. Three credits. Mechanical, optical, and chemical properties of paper; interrelations between the structure of paper, ultimate properties, and the factors that influence them. Two hours lecture, three hours laboratory per week. Prerequisite: Pulp and Paper 405.

Pulp and Paper 418. Chemical Engineering Unit Operations II. Three cred-

its. Momentum, heat and mass transfer with emphasis on drying, humidity and air conditioning, filtration, gas absorption, distillation, and extraction, as applied to the manufacture of pulp and paper. Two hours lecture, three hours laboratory per week. Prerequisite: Pulp and Paper 317.

Pulp and Paper 430. Process Control. Three credits. Mathematical theory, remote signal transmission, and control elements utilized in analog and digital computer analysis, optimization, and control of pulp and paper processes. Two hours lecture, three hours laboratory per week. Prerequisites: Mathematics 212; Computer Science 106.

Pulp and Paper 470. Chemical Engineering Transport Phenomena. Three credits. Study of the laws of mass (diffusion), momentum (laminar and turbulent flow, viscosity), and energy (conduction, convection, radiation) transport with emphasis on macroscopic balances and dimensional analysis. Two hours lecture, two hours laboratory per week. Prerequisite: Pulp and Paper 317; or Physics 335.

Pulp and Paper 480. Environmental Systems Analysis. Three credits. Systems analysis of the control of air and water pollution, recovery of useful materials, odor control, solid waste disposal, and thermal pollution in the pulp and paper making processes. Two hours lecture, three hours laboratory per week. Prerequisite: Senior standing for majors, or consent of instructor.

Pulp and Paper 490. Seminar. One credit. Use of the literature, procedures in designing a research project, and the presentation of information by students, staff, and guest lecturers. Prerequisite: Senior standing or consent of instructor.

Pulp and Paper 491. Seminar. One credit. Use of the literature, procedures in designing a research project, and the

presentation of information by students, staff, and guest lecturers. Prerequisite: Senior standing or consent of instructor.

RELIGIOUS STUDIES

Courses in Religious Studies are administered by the Philosophy Department. They may be used to fulfill the Humanities requirement for a degree.

Religious Studies 100. Religions of the World — Eastern. Three credits. A survey of the ideas and practices of the major Eastern religions, such as Hinduism, Buddhism, Confucianism, Taoism.

Western religious thought through the 19th century.

Religious Studies 301. Contemporary Religious Thought. Three credits. An investigation into current trends in religious thought such as Liberalism, "death of God theology," Christian existentialism.

Religious Studies 101. Religions of the World—Western. Three credits. A survey of the ideas and practices of the major Western religions, such as Zoroastrianism, Judaism, Christianity, Islam.

Religious Studies 310. Religion and Moral Problems. Three credits. Principles of religious ethics and their application to specific moral problems, such as birth control, abortion, war, civil disobedience, and violence.

Religious Studies 300. History of Western Religious Thought. Three credits. An examination of the development of

RESOURCE MANAGEMENT

See **Natural Resources** for the descriptions of the major and minor in Resource Management.

ROTC (RESERVE OFFICERS TRAINING CORPS)

See **Military Science**.

RUSSIAN

Courses in Russian are taught by members of the Department of Foreign Languages and Comparative Literature, which also administers the minor in Russian.

Freshmen and sophomores who have demonstrated proficiency in Russian may be placed in the appropriate 300 or 400 level course by the department.

A **minor in Russian** consists of 21 credits beyond the first year level, with the following courses suggested: Russian 313, 314, 320, 331 or 332, and a course in Russian literature.

Russian 101. First Year Russian. Four credits. For students with no previous training in the language.

Russian 102. First Year Russian. Four credits. Continuation of Russian 101. Prerequisite: Russian 101, or one year

of high school Russian with a grade of C or better; or equivalent.

Russian 105. (Formerly 115) **Reading Proficiency in Russian.** Four credits. Readings in technical prose, with a view to developing accuracy and facility in translating. This course does not count toward the minor nor toward the foreign language requirement for a degree.

Russian 106. (Formerly 116) **Reading Proficiency in Russian.** Four credits. Continuation of Russian 105 (restriction applies). Prerequisite: Russian 105.

Russian 211. Second Year Russian. Four credits. Intensive grammar review, practice in reading and speaking Russian. Prerequisite: Russian 102, or two years of high school Russian with a grade of C or better; or equivalent.

Russian 212. Second Year Russian. Four credits. Intensive grammar review. Prerequisite: Russian 211, or three years of high school Russian with a grade of C or better; or equivalent.

Russian 313. Intermediate Russian Conversation. Two or three credits. Prerequisite: Russian 212, or four years of high school Russian with a grade of C or better; or equivalent.

Russian 314. Intermediate Russian Composition. Two or three credits. Prerequisite: Russian 313 or equivalent.

Russian 320. Phonetics and Diction. Two credits. Prerequisite: Russian 212, or four years of high school Russian with a grade of C or better; or equivalent.

Russian 331. Russian Culture and Civilization. Three credits. Prerequisite: Russian 212, or four years of high school Russian with a grade of C or better; or equivalent.

Russian 332. Russian Culture and Civilization. Three credits. Prerequisite: Russian 212, or four years of high school Russian with a grade of C or better; or equivalent.

Russian 493. Specialized Studies in Russian Literature. One to three credits. Special focus to be determined by the instructor offering the course: a literary genre or group, a recurrent theme in literature, a single author, or a comparison of two authors. A subtitle indicating the focus will be added each time the course is offered. With a different focus, the course may be repeated for credit. Prerequisite: One 300 level Russian course and consent of instructor.

Russian 499. Independent Research in Russian. One to three credits. Individual study under the direction of consenting faculty member; may be taken only by upper level minors, with the consent of the chairman of the department.

RUSSIAN AND EAST CENTRAL EUROPEAN STUDIES_____

Mr. Soroka, adviser.

A. A major in Russian and East Central European Studies consists of at least 34 credits:

1. At least 24 credits shall be selected from the following content courses in at least three fields: **Geography** 130 (The Soviet Union); **History** 337 and 338 (Russian History and Civilization), 339 and 340 (Eastern and Central Europe); **Philosophy** 331 (History of Pre-Revolutionary Russian Philosophy), 332 (Development of Soviet Ideology); **Political Science** 464 (Government and Politics of the Soviet Union); 484 (Foreign Policy of the Soviet Union); **Russian and East Central European Studies** 399 (Special Work — one to three credits).
2. The remainder of the 34 credits shall be in related courses chosen in consultation with the Russian and East Central European Studies adviser.
3. Four semesters of Russian, or any other language of the area, beyond the first year level, are required.

B. A minor in Russian and East Central European Studies consists of at least 24 credits:

1. At least 16 credits selected from among the content courses.
2. The remaining credits shall be in related courses chosen in consultation with the Russian and East Central European Studies adviser.
3. Eight credits of Russian, or any other language of the area, are strongly recommended.

A student planning to earn a major in Russian and East Central European Studies as well as a major in a traditional discipline should expect to have to earn from 10 to 15 credits beyond the minimum of 120 (plus required Physical Education) required for a degree.

Russian and East Central European Studies 297. Soviet Seminar. Three credits. Comprehensive study of the Soviet Union and East Central Europe. Open only to students with at least sophomore standing who are going to participate in the trip to Eastern Europe within the framework of the Soviet Seminar.

Russian and East Central European Studies 397. Soviet Seminar. Three credits. Same as **RECES 297**, except

offered at the junior-senior level.

Russian and East Central European Studies 399. Special Work. Upper class students majoring in Russian and East Central European Studies may, by agreement with the Russian and East Central European Studies adviser, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

SOCIAL SCIENCE

Mr. Gibson, adviser.

A Social Science major may be earned in either of two ways, as indicated below. Those students working toward teacher certification should select plan B, in order to meet Wisconsin certification requirements for high school Social Studies teachers.

A. A Social Science major (for those not working toward teacher certification) consists of the following:

1. Meeting requirements for the minor in one of the following fields:
 - a. Economics.
 - b. History.
 - c. Political Science.
 - d. Sociology and Anthropology.
2. Six or more credits in each of three Social Science fields as listed below, but not to include the field selected under point 1, above:
 - a. Economics.
 - b. Geography (cultural), consisting of Geography 110, plus three credits in cultural Geography courses numbered 300 or above.
 - c. History (in addition to the six credits of History necessary to meet the general requirements of Letters and Science).
 - d. Political Science.
 - e. Psychology.
 - f. Sociology and Anthropology.
3. Sufficient additional credits to total 45 or more, with at least 15 of the total in courses numbered 300 or above.

B. A Social Science major for teacher certification consists of the following:

1. A minimum of 54 credits in Social Science in the fields listed below, with at least one full year of course work in Economics, cultural Geography, Political Science, and Sociology and Anthropology, as indicated below:
 - a. History: Same as the stated minor in History, with History 211 and 212 to contribute to the fulfillment of the requirement.
 - b. Economics: Required—Economics 200; Elective—Economics 201, or any three-credit course numbered 300 or above approved by the Social Science adviser.
 - c. Geography: Required—Geography 110; Elective—any three-credit course in cultural geography, numbered 300 or above, approved by the Social Science adviser.
 - d. Political Science: Required—Political Science 101; Elective—any three-credit course numbered 300 or above approved by the Social Science adviser.
 - e. Sociology and Anthropology: Required — Sociology 101; Elective — any three-credit course numbered 300 or above approved by the Social Science adviser.
 - f. Additional credits to total 54 selected from the five fields listed above.

C. A minor in Social Science consists of 24 credits, including at least one full year

of course work in Economics, cultural Geography, Political Science, and Sociology and Anthropology, as indicated below:

1. Economics: Required — Economics 200; Elective — Economics 201 or any three-credit course numbered 300 or above approved by the Social Science adviser.
2. Geography: Required—Geography 110; Elective—any three-credit course in cultural Geography numbered 300 or above, approved by the Social Science adviser.
3. Political Science: Required—Political Science 101; Elective—any three-credit course numbered 300 or above approved by the Social Science adviser.
4. Sociology and Anthropology: Required—Sociology 101; Elective—any three-credit course numbered 300 or above approved by the Social Science adviser.

This minor will not be approved for teacher certification; it does not meet Wisconsin certification requirements for Social Studies teachers.

SOCIOLOGY AND ANTHROPOLOGY

Mr. Stafford, chairman; Mr. Ackley, Mr. Eugene Clark, Mr. Coppinger, Mrs. Coppinger, Mr. Dixon, Miss Elsen, Mr. Fischhoff, Mrs. Fish, Mr. Fisher, Mr. Garth, Mr. Goebel, Mr. Thomas Johnson, Mrs. Keena, Mr. Maahs, Mr. Maiers, Mr. Moore, Mr. Mufti, Mr. Penner, Mr. Rous, Mr. Shipman, Mrs. Skelton, Mrs. Wrone.

A. A major in Sociology and Anthropology consists of 34 credits, 18 of which will be in courses numbered 300 or above. Anthropology 111 or 112, and Sociology 101, 250, 310, 351 (or an acceptable substitute course in statistics), and 446 are required. Any other courses in Sociology or Anthropology and/or Latin American Studies 423 and Economics 328 may be counted toward the major.

B. A minor in Sociology and Anthropology consists of 18 credits, nine of which will be in courses numbered 300 or above. Sociology 101 and 446 are required. Any other courses in Sociology and/or Anthropology and/or Latin American Studies 423 and Economics 328 may be counted toward the minor. The minor for **teacher certification** requires at least 22 credits.

C. Students with interest in preparing for specialized graduate studies, professional schools, or careers should request assignment to advisers concerned with relevant sequence or course concentrations.

A minimum grade point average of 2.00 in the major field is a requirement for acceptance of the student as a major at the start of his junior year. The minimum 2.00 grade point average in the major is also a requirement for the student's retention as a major during his junior and senior years and for department approval of the major for graduation. The chairman of the department may allow exceptions to this standard on a conditional basis.

Courses may be taken out of normal class-level order only through consent of adviser and instructor.

Courses in Anthropology are listed under the heading **Anthropology**, following Sociology in this section of the catalog.

Sociology

Sociology 101. Introduction to Sociology. Three credits. Sociology as a special field of social science, social relations, and social systems; the organization of societies and other human groupings; fundamentals of sociological investigation, dealing with the underlying premises, concepts, logic, and methods of sociology.

Sociology 152. Social Problems. Three credits. The field of social problems; theories explaining social and personal disorganization and deviation; selected contemporary problems analyzed and related to their social contexts. Prerequisite: Sociology 101.

Sociology 224. Sociology of Childhood and Adolescence. Two or three credits. Social influences on child and adolescent behavior; societal reaction to problems of childhood and adolescence; child welfare practices. Prerequisite: Sociology 101.

Sociology 230. Criminology. Two or three credits. Analysis of crime as an institution, with reference to the behavior of those who define, engage in, or become the victims of criminal behavior. Prerequisite: Sociology 101.

Sociology 240. Marriage and the Family. Two or three credits. Institutional variations of marriage and family; the contributions of behavioral sciences to understanding the processes of courtship and marriage interaction. Prerequisite: Sociology 101 and sophomore standing.

Sociology 250. Methods of Sociological Inquiry. Two or three credits. The scientific method and its application to society; techniques of social investigation. Prerequisite: Sociology 101.

Sociology 260. Population Problems. Three credits. Demography, population theory, trends, and analysis; United States and world population. Prerequisite: Economics 200 or Sociology 101.

Sociology 270. Minority Groups. Two or three credits. A sociological study of the role of minorities in society, their influence, impact, and relationship to the larger society. Prerequisite: Sociology 101.

Sociology 300. The American Community. Two or three credits. Analysis of community organization and the social processes influencing community behavior and change. Prerequisite: Sociology 101.

Sociology 310. Social Psychology. Three credits. Social learning and social habits in relationship to the development of the social self in groups: interaction, perception, motivation, attitudes, values, communication, roles in inter-personal relations. Prerequisite: Sociology 101 or consent of instructor.

Sociology 311. Collective Behavior. Two or three credits. The sociology of organized and unorganized social actions; the mob, crowd, mass behavior, and social movements; the dynamics of mass persuasion. Prerequisite: Sociology 101 or consent of instructor.

Sociology 312. Propaganda and Public Opinion. Three credits. Theories and facts regarding propaganda and public opinion, mass communication and censorship, and a study of measurement and control of public opinion. Prerequisite: Sociology 101 or consent of instructor.

Sociology 315. Group Dynamics. Three credits. Analysis of small groups including leadership and group interaction; research techniques. Prerequisite: Sociology 101 or consent of instructor.

Sociology 322. Culture and Personality. Three credits. Development of personality in relation to patterns of cultures and sub-cultures in which one grows up; materials will be drawn from literate and non-literate cultures. Not open to those presenting Anthropology 312. Prerequisite: Sociology 101 or consent of instructor.

Sociology 332. Juvenile Delinquency. Three credits. Definition, scope, types, and sociological explanations of juvenile delinquency in regard to both its lone and gang forms, and a study of delinquency control techniques. Prerequisite: Sociology 101 or consent of instructor.

Sociology 333. Corrections. Two or three credits. Analysis of the institutionalized responses to criminal behavior through which society attempts to control and treat offenders. Prerequisite: Sociology 230 or 332.

Sociology 343. The Family: Cultural Perspectives. Two or three credits. The family as a social institution, its place in different cultures and social strata, the impact of industrialization and urbanization. Not open to those presenting Anthropology 343. Prerequisite: Sociology 101 or consent of instructor.

Sociology 351. Social Statistics. Four credits. Types of social statistics, sources of data, frequency distributions, averages, dispersions, probability, chi-square, correlation; application in sociological and anthropological research. Three hours lecture, two hours laboratory per week. Prerequisite: Sociology 101 and 250.

Sociology 356. Urban Sociology. Three credits. Comparative and historical approach to cities; urban spatial structure, temporal patterns and population characteristics; ecological factors; the social structure and psychological aspects of urban metropolis; implications for policy and planning. Prerequisite: Sociology 101 or consent of instructor.

Sociology 360. Introduction to the Field of Social Welfare. Three credits. The development of social welfare; contemporary public and private programs and appropriate settings; philosophy and principles of social work. Prerequisite: Nine credits in Social Science or consent of instructor.

Sociology 361. Basic Methods of Social Work. Three credits. The elements of interviewing; concepts and practice of case work with individuals and families; analysis of group work; methods of community organization and generic approach to social problems and action. Prerequisite: Sociology 360.

Sociology 366. Sociology of Aging. Two or three credits. Growth of the aged population; a comparative view of aging in various societies; factors that account for the changing position of the aged in society; problems of the aged and proposed solutions. Prerequisite: Sociology 101 or consent of instructor.

Sociology 370. Socio-cultural Change in Emergent Countries. Three credits.

Study of the problems and processes of development in emerging countries. Not open to those presenting Anthropology 370. Prerequisite: Sociology 101 or consent of instructor.

Sociology 375. Social Structure and Change in East Asia. Two or three credits. Background analysis, demographic characteristics, sub-cultures, status characteristics, and institutions; comparative study of recent change and development in China, Japan, and Korea. Prerequisite: Sociology 101 or consent of instructor.

Sociology 402/602. Sociology in Education. Two or three credits. Cultural change and education; a study of social forces which influence the direction of knowledge and education. Prerequisite: Nine credits in the Social Sciences or consent of instructor.

Sociology 421/621. Social Stratification. Three credits. Caste, estate, and class systems and their relation to occupations and subcultures. Prerequisite: Nine credits in the Social Sciences or consent of instructor.

Sociology 431/631. Sociology of Religion. Three credits. A description and analysis of the structure and function of religion as a universal institution, with emphasis on the interaction of the religious system and the social structure; contemporary trends in religion related to the changing institutions of American society. Prerequisite: Nine credits in the Social Sciences or consent of instructor.

Sociology 445/645. Development of Social Thought. Three credits. Origin of social thought and its development to the nineteenth century. Prerequisite: Nine credits in the Social Sciences or consent of instructor.

Sociology 446/646. Development of Sociological Thought. Three credits. Sociological thought from Comte to the present. Prerequisite: Nine credits in the Social Sciences or consent of instructor.

Sociology 452/652. Laboratory in Social Research. Two or three credits. The conduct of sociological inquiry applied in a group research project at the community level. Sociology 250, 351 are desirable. Prerequisite: Nine credits in the Social Sciences or consent of instructor.

Sociology 456/656. Complex Organizations. Three credits. Study of theory and research literature on structures and processes of large scale formal organizations; includes analysis of bureaucratic and informal social systems in Western society. Prerequisite: Nine credits in the Social Sciences or consent of instructor.

Sociology 468/668. Problems in Family Living. Three credits. Examination of contemporary problems relating to the family field. Prerequisite: Nine credits in the Social Sciences or consent of instructor.

Sociology 490/690. Seminar: Fields of Sociology. Two or three credits. Discussion of theory and research in sociology as it applies to general and special areas of study. A subtitle indicating the subjects will be added each time the course is offered; may be taken for credit more than once as subject matter changes.

Sociology 497-499. Special Work. One to three credits in each of the courses listed below. Upper class students majoring or minoring in Sociology and Anthropology may, by agreement with the

chairman of the department, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project. Each may be repeated up to a maximum of six credits.

Sociology 497. Sociological Analysis and Research; **498.** Social Work and Social Administration; **499.** Sociology of Knowledge.

Sociology 702. Intergroup Relations. Three credits. Advanced study of conflict and cooperation in human groups, with emphasis on contemporary problems of cultural minorities. Prerequisite:

site: Nine credits in the Social Sciences or consent of instructor.

Sociology 748. Theories of Society. Three credits. Studies of major theoretical contributions to understanding social organization and the social system. Prerequisite: Nine credits in the Social Sciences and consent of instructor.

Sociology 796. Independent Study. One to three credits. Planned study designed to enrich and supplement the student's preparation in his area of specialization; regularly scheduled conferences with a staff supervisor. Prerequisite: Consent of instructor and chairman of the department.

Anthropology

Anthropology 111. Prehistoric Man. Three credits. Human paleontology and evolution, prehistoric development of man and culture, subspecification of Homo Sapiens, introduction of archaeological methodology.

Anthropology 112. Man, Culture, and Society. Three credits. Anthropological principles, theories of culture and personality, theories of culture, analysis of ethnographic studies.

Anthropology 290. Introduction to Prehistoric Archaeology. Three credits. A systematic introduction to the history, theory and method of archaeology which will investigate the goals of archaeology and the interpretation and analysis of prehistoric cultural artifacts. Prerequisite: Anthropology 111 or 112 or consent of instructor.

Anthropology 310. Ways of Mankind. Three credits. Brief review of theories of man's pre-history, language, and culture; ethnographic approach to the cul-

tures of several non-literate, folk, and urban-industrial societies. Students may not have credit both in Anthropology 310 and in 111 or 112.

Anthropology 312. Culture and Personality. Three credits. Development of personality in relation to patterns of cultures and sub-cultures in which one grows up; materials will be drawn from literate and non-literate cultures. Not open to those presenting Sociology 322.

Anthropology 334-339. Area and Regional Studies in Ethnology. Two or three credits in each of the following courses. Ethnological survey of various societies in each region; emphasis on the cultural organization of societies and the significance of social change. Prerequisite: Sociology 101, or Anthropology 112 or 310, or consent of instructor.

Anthropology. 334. Peoples of Europe; **335.** of Central and South America; **336.** of Africa; **337.** of Asia; **338.**

of the Pacific; **339. Indians of North America.**

Anthropology 340-S. Field and Laboratory Techniques in Archaeology. Four to eight credits. Techniques, methods, and procedures of field and laboratory archaeology discussed and practiced in actual working conditions on archaeological excavation. Offered in summer only. Prerequisite: Consent of instructor.

Anthropology 343. The Family: Cultural Perspectives. Two or three credits. The family as a social institution, its place in different cultures and social strata, the impact of industrialization and urbanization. Not open to those presenting Sociology 343.

Anthropology 370. Socio-Cultural Change in Emergent Countries. Three credits. Study of the problems and processes of development in emerging countries.

Anthropology 371. Native North American Culture Change. Three credits. Twentieth century socio-cultural continuities and changes among selected Native North American Societies.

Anthropology 430. Primitive Religion. Three credits. An anthropological study of the relationship between religion and other institutions in preliterate and peasant societies, and the impact of religion on the individual. Prerequisite: Sociology 101 or Anthropology 112 or consent of instructor.

Anthropology 440. Economic Anthropology. Three credits. An examination and comparison of economic organizations and problems in primitive and peasant societies. Prerequisite: Sociology 101 or Anthropology 112, or consent of instructor.

Anthropology 499. Special Work. One to three credits. Upper class students majoring or minoring in Sociology and Anthropology may, by agreement with the chairman of the department of Sociology and Anthropology, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project. The course may be repeated for a maximum of six credits.

SOIL SCIENCE

Courses in Soils are taught by members of the College of Natural Resources, which also administers the major in Soil Science, under the general degree requirements of the College of Natural Resources.

A. A major in Soil Science consists of:

1. Thirty-four credits including Natural Resources 170, 372, 490; Forestry 120; Water 180; Wildlife 140; Soils 260, 362, 364, 461, 465; Geology 104.
2. Collateral courses: Biology 130, 160, 351, and one additional plant science course or one upper level geology course; Chemistry 105 and 106 (or 115 and 116), 220, 240; Mathematics 105 or 107, and 110 or 224; Physics 103, 104.

3. Six credits of Summer Camp courses: Forestry 320, Soils 360, Wildlife 340.

In addition to the general requirements of the College of Natural Resources, the following should be noted:

1. Courses in Soils numbered 300 and above require a student to have completed the introductory courses in Natural Resources, Forestry, Soils, Water, and Wildlife, as well as the Summer Camp courses. It is therefore important that a student complete the required introductory courses and summer camp before the beginning of the first semester of the junior year.
2. The courses taken to fulfill a major in Soils must be approved by the student's adviser prior to graduation. It is therefore imperative that each student work with an adviser in choosing his course sequence.

Soils 260. Introduction to Soil Resources.

Four credits. Origin and development of soil with emphasis on physical, chemical, and biological properties and their relationship to soil fertility. Three hours lecture, two hours laboratory per week. Prerequisite: Chemistry 105 or 115, or concurrent registration. Purchase of a \$2.50 laboratory manual is required.

Soils 360. Techniques of Soil and Water Conservation. Two credits. See Summer Camp Program, under Natural Resources (page 249).

Soils 361/561. Forest Soils. Three credits. Properties of soils in relation to silviculture and forest nursery management. Two hours lecture, two hours laboratory per week. Prerequisite: Summer Camp or consent of instructor.

Soils 362/562. Soil Genesis and Morphology. Three credits. Geologic origin, characteristics, and taxonomic grouping of soils, together with emphasis on survey methods and mapping procedures. Two hours lecture, two hours laboratory per week. Prerequisite: Summer Camp or consent of instructor.

Soils 364/564. Soil Analysis. Three

credits. Methods of determining physical and chemical properties of soils. One hour lecture, four hours laboratory per week. Prerequisite: Chemistry 116 or 106; Summer Camp or consent of instructor.

Soils 461/661. Soil Management. Three credits. Principles and practices of soil conservation and soil fertility. Two hours lecture, two hours laboratory per week. Prerequisite: Summer Camp or consent of instructor.

Soils 465/665. Soil Physics. Three credits. Physical properties of soils and methods of determination, with emphasis on influences on plant growth. Two hours lecture, two hours laboratory per week. Prerequisite: Soils 260; Mathematics 107; Physics 103; Summer Camp or consent of instructor.

Soils 493/693. Soils Field Seminar. One credit. Spring vacation tour. See Field Seminar Program under Natural Resources (page 248).

Soils 499. Special Work. Upper class students in Soil Science may, by agreement with the Assistant to the Dean of the College of Natural Resources, arrange for special out-of-class work for

which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project. Prerequisite: Summer Camp or consent of instructor.

Soils 760. Advanced Forest Soils. Three credits. Advanced topics in the relationships between soil properties and silviculture, forest hydrology and nursery

management. Prerequisites: Soils 361/561 or consent of instructor.

Soils 762. Advanced Soil Genesis, Mineralogy and Classification. Three credits. Processes and theories of soil formation; principles and systems of soil classification. Prerequisite: Soils 362/562 or consent of instructor.

SPANISH

Courses in Spanish are taught by members of the Department of Foreign Languages and Comparative Literature, which also administers the major and minor in Spanish.

Freshmen and sophomores who have demonstrated proficiency in Spanish may be placed in the appropriate 300- or 400-level courses by the department.

A. A major in Spanish consists of 31 credits beyond the first year level. Students seeking **teacher certification** should take the following: Spanish 313, 314, 317, 320 or 420, 331 or 332, and nine to twelve credits of Spanish literature.

B. A minor in Spanish consists of 21 credits beyond the first year level, with the following courses suggested: Spanish 313, 314, 320, and 331 or 332; and three credits of Spanish literature.

Spanish 101. First Year Spanish. Four credits. For students with no previous training in the language, or by placement examination.

Spanish 102. First Year Spanish. Four credits. Continuation of Spanish 101. Prerequisite: Spanish 101, or by placement examination.

Spanish 211. Second Year Spanish. Four credits. Intensive grammar review, practice in reading and speaking Spanish. Prerequisite: Spanish 102, or by placement examination.

Spanish 212. Second Year Spanish. Four credits. Intensive grammar review. Prerequisite: Spanish 211, or by placement examination.

Spanish 313. Intermediate Spanish Con-

versation. Two or three credits. Prerequisite: Spanish 212, or by placement examination.

Spanish 314. Intermediate Spanish Composition. Two or three credits. Prerequisite: Spanish 212, or by placement examination.

Spanish 317. Advanced Conversation and Composition. Two credits. Prerequisite: Spanish 313, 314.

Spanish 320. Phonetics and Diction. Two credits. Prerequisite: Spanish 212, or by placement examination.

Spanish 331. A Cultural History of Spain. Three credits. Spanish culture from pre-historic times to the present. Prerequisite: Spanish 212, or by placement examination.

Spanish 332. Latin American Civilization. Three credits. Latin American culture from pre-Columbian times to the present. Prerequisite: Spanish 212, or by placement examination.

Spanish 360. Nineteenth Century Spanish Literature. Two or three credits. Special focus on one or more of the following: drama, prose, or poetry. A subtitle indicating the focus will be added each time the course is offered. With a different focus, the course may be repeated for credit. Prerequisite: Spanish 331 or consent of instructor.

Spanish 370. Contemporary Spanish Literature. Two or three credits. Special focus on one or more of the following: drama, prose, or poetry. A subtitle indicating the focus will be added each time the course is offered. With a different focus, the course may be repeated for credit. Prerequisite: Spanish 331 or consent of instructor.

Spanish 371. Contemporary Spanish American Literature. Two or three credits. Special focus on one or more of the following: drama, prose, or poetry. A subtitle indicating the focus will be added each time the course is offered. With a different focus, the course may be repeated for credit. Prerequisite: Spanish 332 or consent of instructor.

Spanish 420. Linguistic Structure of Spanish. Three credits. Prerequisite: Spanish 313 or equivalent.

Spanish 441. Survey of Spanish Literature. Three credits. Spanish literature from the earliest works to the Renaissance. Prerequisite: Spanish 331 or consent of instructor.

Spanish 442. Survey of Spanish Literature. Three credits. Spanish literature from the Renaissance to the present.

Prerequisite: Spanish 331 or consent of instructor.

Spanish 449. Poetry and Drama of the Golden Age. Two or three credits. Verse of the major Golden Age poets. Prerequisite: Spanish 331 or consent of instructor.

Spanish 450. The Picaresque Novel. Two or three credits. Development of the Spanish novel in the sixteenth and seventeenth centuries. Prerequisite: Spanish 331 or consent of instructor.

Spanish 451. Cervantes. Two or three credits. Study of Don Quijote and other works and the life and times of Miguel de Cervantes. Prerequisite: Spanish 331 or consent of instructor.

Spanish 453. Survey of Spanish American Literature. Two or three credits. Chroniclers of the Indies, major writers of the colonial period, nineteenth century writers and their search for national identity. Prerequisite: Spanish 332 or consent of instructor.

Spanish 493. Specialized Studies in Spanish Literature. One to three credits. Special focus to be determined by the instructor offering the course, one of the following: a literary genre or group, a recurrent theme in literature, a single author, or a comparison of two authors. A subtitle indicating the focus will be added each time the course is offered. With a different focus, the course may be repeated for credit. Prerequisite: One 300-level Spanish course and consent of instructor.

Spanish 499. Independent Research in Spanish. One to three credits. Individual study under the direction of consenting faculty member. May be taken only by upper level majors and minors, with the consent of the chairman of the department.

SPECIAL STUDIES

Special Studies 301. Travel Study. For each course in Travel Study which is organized, the number of credits and details of description will be approved through regular Curriculum Committee and faculty action.

Special Studies 310. Outdoor Education Workshop. Six credits. A summer session course designed to acquaint students with the opportunities for using the outdoors as a laboratory in teaching. Such things as school camping,

field trips, crafts, nature study, conservation of natural resources, and special projects will be included. Staff members from various departments will share responsibility for conducting the workshop. A statement of the content of the course will be filed each time the course is offered. The workshop will meet three hours daily. In addition, there will be some all day field trips and two all night campouts. A laboratory fee is charged to cover transportation costs and miscellaneous expenses.

SPEECH

See **Communication**.

SPEECH PATHOLOGY AND AUDIOLOGY

See **Communicative Disorders**.

WATER RESOURCES

Courses in Water are taught by members of the College of Natural Resources, which also administers the major in Water Resources, under the general degree requirements of the College of Natural Resources.

A. A major in Water Resources, Management Option, consist of:

1. Thirty credits in the College of Natural Resources including Forestry 120; Natural Resources 170, 372, 473, 474, 490; Soils 260; Water 180, 382, 480; Wildlife 140, 441.
2. Thirty-eight credits in collateral courses: Biology 130, 160, 205; Chemistry 105 and 106, or 115 and 116; Economics 200, 201; Geography 103 or Geology 104; Mathematics 105 or 107 or 224.
3. Six credits of Summer Camp courses: Forestry 320, Soils 360, Wildlife 340.

B. A major in Water Resources, Science Option, consists of:

1. Twenty-five credits in the College of Natural Resources including Natural Resources 170, 490; Soils 6, and 364 or 465; Water 180, 382, 480, 481; Wildlife 441.

2. Fifty-four to fifty-eight credits in collateral courses: Biology 130, 160, 205, 351; Chemistry 115, 116, 220, 240; Geography 103 or Geology 104; Mathematics 107, and 110 or 224; Physics 103, 104.
3. Summer field courses: six credits in the disciplines of aquatic biology, geography, geology, or natural resources. Where appropriate, experience gained during summer employment in water resources may be substituted for this requirement. To qualify, courses and/or experience must be approved by the chairman of the department.

In addition to the general requirements of the College of Natural Resources, the following should be noted:

1. It is important that a student complete the required introductory courses and summer camp before the beginning of the first semester of the junior year.
2. The courses taken to fulfill a major in Water Resources must be approved by the student's adviser prior to graduation. It is therefore imperative that each student work with an adviser in choosing his course sequence.

Water 180. Introduction to Water Resources. Three credits. Surface and subsurface water resources, their economic and social importance, control, and conservation.

Water 382/582. Water Quality Management. Three credits. Fundamental concepts in water quality management and special emphasis on selected water quality control systems. Prerequisite: Biology 333, Soils 260; or consent of instructor.

Water 389/589. Hydrology. Three credits. Physical basis of surface and subsurface water occurrence and flow; measurement, analysis, and prediction of hydrologic phenomena. Two hours lecture, two hours laboratory per week. Prerequisite: Water 180; and basic statistics course or consent of instructor.

Water 480/680. Water Analysis. Three credits. Physical, chemical, and biological examination of unpolluted and polluted water. One hour lecture, four hours laboratory per week. Prerequisite: Biology 333; Chemistry 106 or 116; or consent of instructor.

Water 481/681. Pollution Ecology. Four credits. Effect of physical and chemical pollution on populations of aquatic plants and animals; relationship of pollution to man, including water quality requirements for recreation, public health, agriculture, and industry. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 333, Wildlife 441; or consent of instructor.

Water 499. Special Work. Upper class students in Water Resources may, by agreement with the Assistant to the Dean of the College of Natural Resources, arrange for special out-of-class work for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

Water 780. Advanced Water Analysis. Three credits. Chemical methods and instrumental analysis of water supplies and waste water; laboratory management for routine testing and analysis and advanced techniques for determinations of trace elements, pesticides, and other pollutants. Prerequisite: Water 480/680 or equivalent, and consent of instructor.

Water 781. Recent Advances in Pollution Ecology. Three credits. A reading and discussion course on recent research in pollution ecology; detailed analysis of research methods, results, interpretation of data, and evaluations of the work with respect to management of surface water supplies. Prerequisite: Consent of instructor.

Water 786. Indicator Organisms in Pollution Biology—Plant. Three credits.

Water 787. Indicator Organisms in Pollution Biology—Animal. Three credits. Identification of organisms (plants or animals) which are indicative of water quality; survey of the important literature, methods of data analysis, and correlation with physical and chemical qualities. Prerequisite: Wildlife 441/641 and

Water 481/681, and consent of instructor.

Water 788. Water and Waste-water Treatment. Three credits. A non-engineering approach to the methods of water treatment, routine laboratory testing, and protection of systems; domestic waste disposal by water carriage and non-water carriage methods; small unit and municipal disposal methods. Water 480/680, and 481/681, and consent of instructor.

Water 789. Advanced Hydrology. Three credits. Modeling and systems theory in analysis of water resources management alternatives; application of hydrologic analysis to ecological problems. Two hours lecture, two hours laboratory per week. Prerequisite: Water 389 or 589 or consent of instructor.

WILDLIFE

Courses in Wildlife are taught by members of the College of Natural Resources, which also administers the major in Wildlife, under the general degree requirements of the College of Natural Resources.

A. A major in Wildlife, Fisheries Management, consists of:

1. Eighteen credits of courses in the College of Natural Resources including Forestry 120; Natural Resources 170, 490; Soils 260; Wildlife 140, 441, 444.
2. Forty-six to fifty credits in collateral courses: Biology 130, 160, 205, 374; Chemistry 105 and 106, or 115 and 116, 220; Geology 104; Mathematics 105 or 107 or eligibility for 110; and seven credits selected from Biology 210, 281 or 351, 333, 346, 360, 362, 367, 378, 388.
3. Six credits of Summer Camp courses: Forestry 320, Soils 360, Wildlife 340.

B. A major in Wildlife, Game Management, consists of:

1. Fifteen credits of courses in the College of Natural Resources including Forestry 120; Natural Resources 170, 490; Soils 260; Wildlife 140, 451.
2. Forty-six to fifty credits in collateral courses: Biology 130, 160, 205, and eleven credits selected from Biology 210, 277, 281, 342, 355, 362, 370, 374, 378, 385; Chemistry 105 and 106, or 115 and 116, 220; Geology 104; Mathematics 105 or 107 or eligibility for 110, 225.

3. Six credits of Summer Camp courses: Forestry 320, Soils 360, Wildlife 340.

In addition to the general requirements of the College of Natural Resources, the following should be noted:

1. Most of the courses in the College of Natural Resources numbered 300 and above require a student to have completed the introductory courses in Natural Resources, Forestry, Soils, Water, and Wildlife, as well as the Summer Camp courses. It is therefore important that a student complete the required introductory courses and summer camp before the beginning of the first semester of the junior year.
2. The courses taken to fulfill a major in Wildlife must be approved by the student's adviser prior to graduation. It is therefore imperative that each student work with an adviser in choosing his course sequence.

Wildlife 140. Introduction to Wildlife Resources. Three credits. Wildlife resources of the United States; the importance of wildlife to our past and present economic and cultural life; selected problems in wildlife conservation. Prerequisite: Biology 160 or concurrent registration.

Wildlife 340. Techniques in Fish and Wildlife Management. Two credits. See Summer Camp Program under Natural Resources (page 249).

Wildlife 441/641. Limnology. Three credits. Physical, chemical, and biological phenomena of freshwater communities. Prerequisite: Biology 205.

Wildlife 442/642. Limnological Methods. One credit. Laboratory and field methods used in freshwater investigations. Three hours laboratory per week. Prerequisite: Registration in Wildlife 441 or consent of instructor.

Wildlife 444/644. Fisheries Management. Three credits. Principles of management of inland waters for fish production. Prerequisite: Biology 374; Wildlife 441; Summer Camp; or consent of instructor.

Wildlife 445/645. Fisheries Methods. One credit. Methods used in field collection and laboratory analysis. Laboratory three hours per week. Prerequisites: Wildlife 141 and Biology 127, Summer Camp, or consent of instructor.

Wildlife 447/647. Fish Production. Three credits. Principles, problems, and techniques of fish production under artificial conditions. Two hours lecture; two hours laboratory per week. Prerequisite: Wildlife 141, 127; Summer Camp or consent of instructor.

Wildlife 450. Game Management Techniques. Three credits. Techniques of managing game population; field mapping, food habit studies, game censuses, and control measures; special emphasis on techniques of game management as it applies to Wisconsin game populations. Two hours lecture, two hours laboratory per week. Prerequisite: Biology 342, Summer Camp, or consent of instructor.

Wildlife 451/651. Game Management. Three credits. History and development of game management in the United States; principles of management of game animals; coordination of such

management with current land use practices. Two hours lecture, two hours laboratory per week. Prerequisite: Biology 205, Summer Camp, or consent of instructor.

Wildlife 452/652. Regulation of Animal Populations. Two credits. Modern control techniques used in regulation of animal populations; special emphasis on pesticides and implications of their use. Prerequisite: Open only to Biology or Natural Resources majors or minors having senior standing; or consent of instructor.

Wildlife 453/653. Wildlife Population Dynamics. Three credits. The ecologic basis and characteristics of wild animal population growth, interaction, and evolution as it applies to management. Prerequisite: Biology 160 or Wildlife 140; Biology 205; Mathematics 225; Summer Camp; or consent of instructor.

Wildlife 455/655. Diseases of Wildlife. Three credits. Infectious, parasitic, and chemical diseases of wildlife, with emphasis on their occurrence, significance, and role as ecologic factors. Prerequisite: Biology 205 or Wildlife 140; and consent of instructor.

Wildlife 472. Wildlife Population Statistics. Three credits. A study of the collection and analysis of data from wild populations including the development

of ecological models. Two hours lecture, two hours laboratory per week. Prerequisite: Mathematics 225 or equivalent, and consent of instructor.

Wildlife 493. Wildlife Field Seminar. One or two credits. For one credit, the course may be taken on a pass-fail basis; for two credits, the completion of a comprehensive report on the field experience is required. Prerequisite: Consent of instructor. (See also Field Seminar Program under the Natural Resources heading.)

Wildlife 499. Special Work. Upper class students majoring in Wildlife may, by agreement with the Assistant to the Dean of the College of Natural Resources, arrange for special out-of-class work for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to a special project.

Wildlife 740. Advanced Studies in Fish Management. Five credits. Survey of the literature concerned with the ecology and management of fish populations. Prerequisite: Wildlife 441/641 and 444/644, or consent of instructor.

Wildlife 752. Advanced Studies in Game Management. Five credits. Survey of the literature concerned with the ecology and management of terrestrial animals. Prerequisite: Wildlife 451/651 or consent of instructor.

Faculty and Staff

*Indicates part time appointment.

TIA indicates Teacher Improvement Assignment.

Date indicates beginning year of service at the University of Wisconsin-Stevens Point.

This listing is current as of the 1971-72 school year.

Margery V. Aber, Assistant Professor of Music, 1967 ■ B.M., Oberlin College; M.A., Columbia University.

Jacqueline M. Abney, Faculty Assistant in Education, 1971 ■ B.S., University of Wisconsin-Stevens Point.

Richard C. Ackley, Assistant Professor of Sociology and Anthropology, 1967 ■ B.S., Western Michigan University; M.A., University of Michigan.

Howard C. Adams, Jr., Associate Professor of Foreign Language, 1966 ■ A.B., Kansas State Teachers College; M.A., University of Kansas.

Charles Adamski*, Lecturer in Economics and Business, 1969 ■ B.B.A., University of Wisconsin-Madison.

Helen Alford Akenson, Instructor in Drama, 1971 ■ B.A., University of Mississippi; M.A., Florida State University.

James E. Akenson, Instructor in Education, 1970 ■ B.A., University of Minnesota; M.A., University of Wisconsin-Madison.

Elaine Albracht, Residence Hall Director, 1969 ■ B.S., M.S., Loyola University, Chicago.

Betty Jean Allar, Associate Professor of Education, 1966 ■ B.S., University of Wisconsin-River Falls; M.S., University of Wisconsin-Madison; Ed.D., University of Northern Colorado.

Calvin Y. Allen, Instructor in Communication, 1969 ■ B.A., University of Evansville.

Rene C. Allmont, Associate Professor of History, 1966 ■ A.B., A.M., George Washington University; Ph.D., University of Delaware.

Don J. Amiot, Instructor in Health, Physical Education, and Recreation, 1971 ■ B.S., Mayville State College; M.S., South Dakota State University.

Hiram Anderson, Jr.*, Lecturer in Economics and Business, 1960 ■ Ph.B., D.J., University of Wisconsin-Madison.

Raymond K. Anderson, Professor of Wildlife, College of Natural Resources, 1966 ■ B.S., University of Wisconsin-Stevens Point; M.A., University of Michigan; Ph.D., University of Wisconsin-Madison.

Robert T. Anderson, Associate Professor of Geography, 1953 ■ B.S., University of Wisconsin-Eau Claire; M.S., University of Wisconsin-Madison.

William F. Anderson, Faculty Assistant in Geography, 1970 ■ B.S., University of Wisconsin-La Crosse.

Oliver A. Andrews, Associate Professor of Chemistry, 1960 ■ B.S., University of Wisconsin-Stevens Point; M.S., University of Wisconsin-Madison.

Robert P. Artigiani, Assistant Professor of History, 1968 ■ B.A., University of Maryland; M.A., Ph.D., American University.

Mukul G. Asher, Instructor in Economics and Business, 1969 ■ B.A., Bombay University; M.A., Washington State University.

Donald L. Aylesworth, Assistant Professor of Communicative Disorders, 1969 ■ B.S., Western Michigan University; M.A., Ph.D., Michigan State University.

John D. Bailiff, Associate Professor of Philosophy, 1966 ■ A.B., Stanford University; M.A., Ph.D., Pennsylvania State University.

Monica E. Bainter, Professor of Physics, 1947 ■ A.B., College of St. Teresa; M.A., University of Minnesota; Ph.D., University of Wisconsin-Madison.

Mary Ann Baird, Instructor in Home Economics; Campus Planning, 1962 ■ B.S., University of Wisconsin-Stout; M.S.T., University of Wisconsin-Stevens Point.

John W. Barnes, Associate Professor of Biology, 1956 ■ B.S., Ohio State University; M.S., University of Minnesota.

Allen F. Barrows, Instructor in Learning Resources; Director of Public Services, 1969 ■ B.S., University of Wisconsin-Stevens Point; M.L.S., Indiana University.

Anita O. Barsness*, Instructor in Home Economics, 1971 ■ B.A., St. Olaf College; M.S., University of Wisconsin-Stevens Point.

Robert Baruch, Associate Professor of Drama, 1967 ■ B.A., North Texas State University; M.A., University of Colorado; Ph.D., University of Minnesota.

Nina Barwell, Faculty Assistant in Music, 1970 ■ B.M., New England Conservatory of Music.

Roger F. Bauer, Associate Professor of Education, 1969 ■ B.A., Lakeland College; M.S., Ph.D., University of Wisconsin-Madison.

Frederick M. Baumgartner, Professor of Wildlife, College of Natural Resources, 1965 ■ B.A., Butler University; M.A., University of Kansas; Ph.D., Cornell University.

Fred W. Baumgartner*, Lecturer in Natural Resources, 1971 ■ B.S., M.A., Michigan State University.

F. Paul Baxter, Associate Professor of Natural Resources, 1966 ■ B.S., M.S., South Dakota State University; Ph.D., University of Wisconsin-Madison. (On leave 1971-72.)

Lloyd H. Beck, Professor of Psychology, 1964 ■ A.B., A.M., Oberlin College; Ph.D., Brown University.

George C. Becker, Professor of Biology, 1957 ■ B.A., M.A., M.S., Ph.D., University of Wisconsin-Madison.

Sylvia H. Becker*, Lecturer in English, 1970 ■ B.S., University of Wisconsin-Milwaukee.

Susan M. Behrens, Instructor in Communication, 1971 ■ B.A., Eastern Michigan University; M.A., Ohio University.

Leon E. Bell, Jr., Assistant Chancellor for Business Affairs, 1963 ■ B.S., Virginia Military Institute.

Donald A. Benz, Professor of Education, 1966 ■ B.E., University of Wisconsin-Stevens Point; M.A., Ph.D., George Peabody College.

Ruth B. Bergh, Instructor in Music, 1970 ■ B.A., St. Olaf College; M.A., University of Minnesota.

John M. Bernd, Professor of Education, 1964 ■ B.S., University of Wisconsin-La Crosse; Ph.M., Ph.D., University of Wisconsin-Madison.

Verlene Bernd*, Instructor in English, 1964 ■ B.S., University of Wisconsin-Eau Claire; M.S.L.S., University of Wisconsin-Madison.

Dennis A. Berthold, Instructor in English, 1971 ■ B.A., M.A., University of California, Riverside; Ph.D., University of Wisconsin-Madison.

Mary Lou Biddlestone, Instructor in Health, Physical Education, and Recreation, 1963 ■ Slippery Rock State College; M.S., University of Minnesota.

John R. Billings, Associate Professor of Philosophy, 1966 ■ B.S., Lehigh University; M.A., Brown University; Ph.D., Syracuse University.

Philip R. Bjork, Assistant Professor of Geography, 1968 ■ B.S., Ph.D., University of Michigan; M.S., South Dakota School of Mines and Technology.

Lynn A. Blair, Assistant Professor of Health, Physical Education, and Recreation, 1965 ■ B.S., MacMurray College; M.S., University of Southern Mississippi.

Marie M. Blakeslee, Instructor in Psychology, 1970 ■ B.S., M.S., University of Detroit.

Allen F. Blocher, Associate Professor of Physics, 1958 ■ B.S., McPherson College; M.S., University of Nebraska.

Melvin Bloom, Associate Professor of Foreign Language, 1966 ■ B.S., Ohio State University; M.A., Universidad de las Americas (Mexico City College); Ph.D., Universidad Interamericana.

Patricia A. Bloom*, Lecturer in English, 1971 ■ B.A., M.A., Ohio University.

Thomas K. Bloom, Assistant Professor of English, 1968 ■ A.B., M.A., Ph.D., Ohio University.

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Francis L. Schmitz, Associate Professor of Physics, 1968 ■ B.S., University of Wisconsin-Oshkosh; M.S., Ph.D., University of Wisconsin-Madison.

Richard C. Schneider, Professor of Art, 1962 ■ B.S., M.F.A., University of Wisconsin-Milwaukee; M.S., University of Wisconsin-Madison.

Richard J. Schoenecker, Assistant Professor of Mathematics, 1966 ■ B.A., St. John's University; M.S.T., Illinois Institute of Technology.

Susan I. Schrup, Instructor in Learning Resources, 1970 ■ B.A., University of Northern Iowa; M.A., University of Iowa.

Mark W. Schuh, Assistant Professor of Mathematics, 1971 ■ B.A., University of Chicago; M.A., Ph.D., University of Illinois.

Joseph L. Schuler, Jr., Associate Professor of Philosophy, 1957 ■ B.S., Texas Christian University; M.S., University of Wisconsin-Madison.

Marilyn J. Schwartz, Instructor in Health, Physical Education, and Recreation, 1971 ■ B.S., M.S., University of Wisconsin-La Crosse.

Jan Scott*, Lecturer in the Teacher Corps Program, 1971 ■ B.S., Ball State University; M.S.T., University of Wisconsin-Stevens Point.

Stephen H. Scott, Residence Hall Director, 1968 ■ B.S., M.S., Ball State University.

James Sebanc, Faculty Assistant in Geography, 1969 ■ B.A., University of Wisconsin-Milwaukee.

Jan J. Seiler, Instructor in Foreign Language, 1969 ■ B.A., University of Texas.

Mark R. Seiler, Assistant Professor of Foreign Language, 1969 ■ B.A., M.A., Ph.D., University of Wisconsin-Madison.

Genevieve L. Sell, Instructor in Home Economics, 1971 ■ B.S., M.S., University of Wisconsin-Madison.

David L. Sengenberger, Assistant Professor of Geography, 1964 ■ Ph.B., Northwestern University; M.A., University of Oklahoma.

Byron H. Shaw, Assistant Professor of Soil Science and Water Science, College of Natural Resources, 1968 ■ B.S., M.S., Ph.D., University of Wisconsin-Madison.

Bruce C. Sherony, Instructor in Economics and Business, 1969 ■ B.S., Northern Michigan University; M.B.A., Northern Illinois University.

Donald L. Showalter, Assistant Professor of Chemistry, 1971 ■ B.S., Eastern Kentucky University; Ph.D., University of Kentucky.

Mary L. Shumway, Associate Professor of English, 1965 ■ A.B., University of Chicago, M.A., San Francisco State College; Ph.D., University of Denver.

Richard E. Shurbert, Deputy Director of Civil Defense University Education Program, 1966 ■ B.S., University of Wisconsin-Oshkosh; M.S., Michigan State University.

Elwin W. Sigmund, Professor of History; Assistant to the Vice President for Academic Affairs; 1956 ■ B.S., University of Wisconsin-Milwaukee; M.A., Ph.D., University of Illinois.

Helen N. Sigmund*, Faculty Assistant in Health, Physical Education, and Recreation, 1965 ■ B.S., University of Wisconsin-Milwaukee.

Robert E. Simpson, Professor of Biology, 1956 ■ B.A., M.A., Ph.D., University of Iowa.

Bhola P. Singh, Associate Professor of Political Science, 1965 ■ B.A., Patna University; M.A., Allahabad University; M.A., Ph.D., Indiana University.

Gail J. Skelton, Instructor in Sociology and Anthropology, 1969 ■ B.A., M.A., Case Western Reserve University.

William B. Skelton, Associate Professor of History, 1969 ■ B.A., Bowdoin College; M.A., Ph.D., Northwestern University.

David E. Smit, Assistant Professor of Geography, 1970 ■ B.A., Augustana College, Rock Island, Illinois; M.S., Ph.D., University of Iowa.

David L. Smith, Associate Professor of Art, 1967 ■ B.D., M.A., University of Michigan; Ph.D., Michigan State University.

Harry H. Smith, Associate Professor of Biology, 1963 ■ B.S., M.S., University of Wisconsin-Madison.

Kenyard E. Smith, Associate Professor of Music, 1966 ■ B.A., Hastings College; M.A., University of Northern Colorado; Ph.D., University of Iowa.

Leon R. Smith, Jr., Professor of Music, 1970 ■ B.M., M.M., University of Texas; Ph.D., Indiana University.

Mary Elizabeth Smith, Professor of English, 1950 ■ B.A., Yankton College; M.A., University of Minnesota; Ph.D., University of Iowa.

Nancy L. Snider, Assistant Professor of Political Science, 1969 ■ B.A., M.A., University of California, Santa Barbara; Ph.D., University of California, Berkeley.

Terrence J. Snowden, Professor of Education; Director, Teacher Corps Program; 1963 ■ B.S., University of Wisconsin-Oshkosh; M.S., Ph.D., University of Wisconsin-Madison.

Raymond A. Sommers, Associate Professor of Chemistry, 1962 ■ B.S., University of Wisconsin-Stevens Point; M.S., Ph.D., Institute of Paper Chemistry, Lawrence University.

Waclaw W. Soroka, Professor of History, 1963 ■ Bacc., State Lycee, Hrubieszow, Poland; L.L.M., Catholic University, Lublin; A.M., Indiana University; J.D., Louvain University.

Zophia A. Soroka*, Instructor in Learning Resources, 1964 ■ Bacc., Jaroslaw Lycee, Poland; M.A., Indiana University.

N. Earl Spangenberg, Instructor in Forestry and Water Science, College of Natural Resources, 1971 ■ B.S., Oregon State University; M.S., Colorado State University.

Raymond E. Specht, Associate Professor of Geography; Assistant to the Vice President for Business Affairs; Campus Planner; 1947 ■ B.S., University of Wisconsin-Oshkosh; M.A., Clark University.

Carolyn Spector, Instructor in Education, 1971 ■ B.A., Brown University; M.A., M.A.T., University of Chicago.

Marjorie J. Spring, Associate Professor of Health, Physical Education, and Recreation, 1965 ■ B.S., University of Wisconsin-La Crosse; M.A., Ph.D., Texas Woman's University.

Bruce Staal, Instructor in Mathematics, 1970 ■ B.S., Calvin College; M.S., Michigan State University.

David B. Stafford, Professor of Sociology and Anthropology, 1969 ■ B.A., Guilford College; M.A., Haverford College; Ph.D., Drake University.

Ruth S. Steffen, Instructor in Learning Resources, 1965 ■ B.A., M.A., University of Wisconsin-Madison.

Oliver F. Steiner, Assistant Director, University Center, 1966 ■ B.S., University of Wisconsin-Stevens Point.

Ronald J. Steiner, Instructor in Health, Physical Education, and Recreation, 1968 ■ B.S., M.S., Winona State College.

David H. Steingass, Associate Professor of English, 1968 ■ B.A., Capital University; M.A., University of Maine; M.F.A., University of California, Irvine. (On leave first semester 1971-72.)

Robert J. Steinpreis, Associate Professor of Chemistry, 1966 ■ B.S., South Dakota University; D.S.C., Bonn University; L.L.B., New York University.

Isabelle Stelmahoske, Assistant Professor of English, 1965 ■ B.S., University of Wisconsin-Stevens Point; M.A., Marquette University.

Donald F. Stetzer, Assistant Professor of Geography, 1968 ■ B.S., M.A., University of Chicago.

Daniel L. Stewart, Instructor in Music, 1971 ■ B.M., M.M., Michigan State University.

Lynn H. Stewart, Instructor in English, 1966 ■ A.B., Franklin College; M.S., Southern Illinois University.

Michael J. Stewart, Instructor in Psychology, 1970 ■ B.S., M.S., Illinois State University.

Angelyn Stielstra*, Instructor in Education, 1969 ■ A.B., Calvin College; M.S., Purdue University.

William Stielstra, Professor of History, 1965 ■ A.B., Calvin College; M.A., University of Michigan; Ed.D., Michigan State University.

Merlin C. Streim, Supervisor, Civil Defense University Education Program, 1968 ■ B.E., University of Wisconsin-Whitewater.

Michael F. Sullivan, Assistant Professor of Economics and Business, 1965 ■ B.A., University of Denver; M.S., University of Wisconsin-Madison.

Ruth E. Sylvester*, Instructor in Education and Home Economics; Coordinator of Student Teaching; 1970 ■ B.S., M.S., University of Wisconsin-Milwaukee.

William A. Sylvester, Assistant Professor of Forestry, College of Natural Resources, 1969 ■ B.S.F., University of Michigan; M.F., Yale University.

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Kathleen A. Taft, Faculty Assistant in Chemistry, 1969 ■ B.S., University of Wisconsin-Stevens Point.

Stephen J. Taft, Assistant Professor of Biology, 1969 ■ B.S., University of Wisconsin-Stevens Point; M.S., Ph.D., Iowa State University.

Judith A. Tate, Instructor in Health, Physical Education, and Recreation, 1969 ■ B.S., University of Wisconsin-River Falls; M.A., University of Minnesota.

Allen G. Taylor, Assistant Professor of Physics, 1964 ■ B.S., Northern Illinois University; M.S., University of Kansas.

Joan C. Taylor, Lecturer in Psychology; Assistant Dean of Students, 1970 ■ B.A., M.S., State University of New York, Albany.

Rosalind K. Taylor, Instructor in Health, Physical Education, and Recreation, 1969 ■ B.A., M.A., University of Iowa.

Marvin W. Temp, Associate Professor of Biology, 1965 ■ B.S., University of Wisconsin-LaCrosse; Ph.D., University of Wisconsin-Madison.

Judson K. Terrell, Residence Hall Director, 1970 ■ B.S., M.S., Indiana University.

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Denis W. Thomas, Instructor in English, 1971 ■ B.S., M.A., Indiana University.

John M. Thomas, Assistant Professor of Music, 1963 ■ B.M., Southwestern College (Kansas); M.M., Wichita State University.

Gladys Thomson, Faculty Assistant in English, 1968 ■ B.A., (Milwaukee) Downer College, Lawrence University.

H. Howard Thoyre, Associate Professor of Mathematics, 1962 ■ B.S., Minot State College; M. A., Louisiana State University; Ph.D., University of Wisconsin-Madison.

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Dennis E. Tierney, Assistant Professor of Psychology; Director of Career Counseling and Placement Center; 1968 ■ B.S., M.S., University of Wisconsin-Madison.

Mary A. Tolan, Director of Student Activities, 1971 ■ B.S., State University of New York College at Geneseo; M.S., State University of New York at Albany.

Robert Tomlinson, Residence Hall Director, 1970 ■ B.S., Indiana State University.

Daniel O. Trainer, Professor of Natural Resources; Dean of the College of Natural Resources, 1971 ■ B.S., Ripon College; M.S., Ph.D., University of Wisconsin-Madison.

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Robert C. Van Nuys, Professor of Music, 1963 ■ B.M., Indiana University; M.M., D.M.A., University of Illinois.

William B. Vickerstaff, Special Assistant to the Chancellor, 1966 ■ B.A., Cornell College.

Timothy W. Volk, Instructor in Art, 1970 ■ B.S., M.F.A., University of Wisconsin-Madison.

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George von Rautenfeld, Assistant Professor of Learning Resources, 1971 ■ B.A., M.A., American University; M.L.S., Catholic University of America.

Hugh D. Walker, Associate Professor of History, 1965 ■ B.A., University of New Hampshire; M.A., Ph.D., University of California, Los Angeles.

Robert H. Weaver, Professor of Chemistry, 1961 ■ B.S., West Virginia Wesleyan College; M.S., Ph.D., University of Maryland.

John F. Weiler, Associate Professor of Mathematics, 1963 ■ B.A., St. Norbert College; M.A., University of Wisconsin.

Herbert G. Wenger, Associate Professor of Education, 1967 ■ B.S., M.S., University of Wisconsin-Milwaukee; Ph.D., University of Wisconsin-Madison.

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Peter S. Wenz, Assistant Professor of Philosophy, 1971 ■ B.A., State University of New York at Binghamton, Harpur College; Ph.D., University of Wisconsin-Madison.

Hermie D. West, Manager, University Store, 1965 ■ B.A., Blue Mountain College.

James E. Westbrook, Instructor in Music, 1968 ■ B.M.E., University of Southern Mississippi; M.M., University of Mississippi. (On leave 1971-72.)

Raymond P. Whearty, Jr., Instructor in English, 1969 ■ A.B., University of Iowa; M.A., San Francisco State College.

Alice Post White, Associate Professor of Home Economics, 1970 ■ B.S., Iowa State University, M.S., Ph.D., University of Wisconsin-Madison.

Charley M. White, Associate Professor of Biology, 1966 ■ B.S., Eastern Illinois University; M.S., Ph.D., Purdue University.

Olive K. White, Faculty Assistant in Education, 1970 ■ B.S., Eastern Illinois University.

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Terry E. Wick, Assistant Professor of History, 1969 ■ B.S., M.A., Indiana University.

Reginald Wicks, Instructor in Health, Physical Education, and Recreation, 1971 ■ B.S., Iowa State University.

Bernard F. Wievel, Professor of Natural Resources, College of Natural Resources, 1947 ■ B.E., University of Wisconsin-Platteville; M.S., Ph.D., Iowa State University.

Wayne G. Wild, Associate Professor of Mathematics, 1967 ■ B.S., South Dakota State University; M.S., University of Wisconsin-Madison; M.A., University of Illinois.

Robert F. Wilde, Associate Professor of Biology, 1957 ■ B.A., University of Wisconsin-Madison; M.S., Marquette University.

William E. Witt, Assistant Professor of Communication, 1970 ■ B.A., B.S., University of Wisconsin-La Crosse; M.S., Ph.D., University of Wisconsin-Madison.

Robert E. Wood, Associate Professor of Political Science, 1967 ■ B.A., M.A., University of Oklahoma.

Roger L. Wood, Associate Professor of Education, 1966 ■ B.S., University of Wisconsin-Stevens Point; M.S., Ph.D., University of Wisconsin-Madison.

S. Joseph Woodka, Professor of Political Science; Dean of the College of Letters and Science; 1968 ■ B.S., Ball State University; M.A., Ph.D., University of Michigan.

S. Joan Worby, Instructor in English, 1970 ■ B.A., Macalester College; M.A., University of Oklahoma.

David A. Wright, Instructor in Education, 1968 ■ B.S., University of Cincinnati; M.A., University of Iowa. (On leave 1971-72.)

David R. Wrone, Associate Professor of History, 1964 ■ B.S., A.M., Ph.D., University of Illinois.

E. Alley Wrone*, Lecturer in Sociology and Anthropology, 1971 ■ B.A., Dickinson College.

Irene M. Yost, Assistant Professor of Education; Counselor; 1965 ■ B.A., University of Northern Iowa; M.S., University of Wisconsin-Madison.

Alan D. Young, Instructor in English, 1969 ■ B.A., University of Kansas; M.A., University of Colorado.

John P. Zawadsky, Professor of Philosophy, 1966 ■ B.A., Rutgers University; M.A., Ph.D., Harvard University.

Patience Zawadsky*, Lecturer in English, 1967 ■ B.A., Douglass College.

Samuel J. Zeoli, Instructor in Foreign Language, 1970 ■ B.A., LaSalle College; M.A., University of Minnesota.

Robert H. Zieger, Associate Professor of History, 1964 ■ B.A., Montclair State College; M.A., University of Wyoming; Ph.D., University of Maryland. (TIA second semester 1971-72.)

W. William Zimdars, Instructor in Education; Assistant Director of Admissions; 1968 ■ B.E., University of Wisconsin-Whitewater; M.E., University of Wisconsin-Superior.

Linette L. Zimmer, Instructor in Learning Resources, 1971 ■ B.E., University of Wisconsin-Whitewater; M.L.S., University of Wisconsin-Madison.

Medford Campus

DeLyle S. Amundson, Instructor in Mathematics, 1969 ■ B.S., University of Wisconsin-Platteville; M.S., University of Wyoming.

Ronald Barozzi, Instructor in Sociology and Anthropology, 1971 ■ B.S., Utah State University; M.A., University of Hawaii.

Robert E. Bence, Instructor in Political Science, 1970 ■ B.S., M.Ed., Indiana University of Pennsylvania; M.A., West Virginia University.

Robert Daigle, Instructor in Art, 1971 ■ B.A., M.F.A., University of Minnesota.

Donald D. Dennis, Instructor in History, 1970 ■ B.A., Westminster College; M.A., University of Utah.

Rosalind E. Ford, Assistant Professor of English, 1970 ■ B.S., M.A., University of Wisconsin-Madison.

David N. Hudson, Instructor in Biology, 1970 ■ B.S., Loyola University; M.S., University of Montana.

James F. Johnson*, Instructor in Music, 1969 ■ B.A., University of Wisconsin-Eau Claire; M.A., Colorado State College.

Robert J. Larson, Assistant Professor; Director of Student Affairs; 1969 ■ B.S., University of Wisconsin-Eau Claire; M.S., University of Wisconsin-Stout.

Frank Miller, Associate Professor of Chemistry, 1969 ■ B.S., City University of New York, City College; M.S., University of Kansas; Ph.D., University of Delaware.

Russell L. Oliver, Professor of Education; Dean; 1964 ■ B.S., University of Wisconsin-Eau Claire; A.M., University of Minnesota; Ed.D., Colorado State College.

Donald P. Streubel, Instructor in Biology, 1970 ■ B.S., University of Wisconsin-Stevens Point; M.S., University of Alaska.

Maurice H. Stump, Associate Professor of English, 1969 ■ B.A., M.A., Colorado State College.

Andrew Z. Tomich*, Instructor in Foreign Language and Political Science, 1970 ■ University of Berlin; Ecole Libre des Sciences-Politique, Paris; City University of New York, City College.

Angela M. Tomich, Instructor in Foreign Language, 1966 ■ B.S., M.A., Columbia University.

David R. Torrence, Assistant Professor of Geography, 1970 ■ B.S., Towson State College; M. S., Pennsylvania State University.

Thomas E. Walsh, Instructor in Physical Education, 1969 ■ B.S., M.S., University of Wyoming.

Emeritus Faculty

Dates in parentheses indicate years of service.

William C. Hansen, President (1940-1962)

Kenneth W. Boylan (1947-1971)

Edna Carlsten (1923-1961)

Susan E. Colman (1931-1952)

Mildred Davis (1928-1970)

Elizabeth Pfiffner DeBot (1940-1965)

Bertha Glennon (1940-1969)

Raymond E. Gotham (1946-1971)

Gertie L. Hansen Halsted (1920-1953)

Lulu O. Kellogg (1953-1970)

Vivian A. Kellogg (1953-1970)

Marjorie E. Kerst (1948-1970)

Norman E. Knutzen (1931-1963)

Syble E. Mason (1930-1969)

Raymond M. Rightsell (1920-1959)

May M. Roach (1914-1956)

Gordon D. Shipman (1966-1971)

Mildrede L. Williams (1940-1966)

Emily Wilson (1921-1960)

Administrative Officers and Staff

Chancellor: Lee Sherman Dreyfus.

Assistant to the Chancellor: John B. Ellery.

Special Assistant to the Chancellor: William B. Vickerstaff.

Assistant Chancellor for Academic Affairs, and Dean of Faculties:

Gordon M. Haferbecker.

Dean of Educational Services and Innovative Programs: Burdette W. Eagon.

Assistant to the Assistant Chancellor: Elwin W. Sigmund.

Administrative Assistant to the Dean of Educational Services and Innovative Programs: Thomas McKitterick.

Assistant Chancellor for Business Affairs: Leon E. Bell, Jr.

Assistant to the Assistant Chancellor: Raymond E. Specht.

Assistant Chancellor for Student Affairs, and Dean of Students: David L. Coker.

Associate Deans of Students: Leonard L. Gibb, Helen R. Godfrey.

Assistant Dean of Students: Joan C. Taylor.

College of Fine Arts: William J. Hanford, Dean.

College of Letters and Science: S. Joseph Woodka, Dean; William A. Johnson, Assistant Dean.

College of Natural Resources: Daniel O. Trainer, Dean; Bernard F. Wiesel, Acting Assistant to the Dean.

College of Professional Studies: Arthur L. Fritschel, Dean.

School of Communicative Disorders: Gerald F. Johnson, Assistant Dean.

School of Education: John E. Bolen, Assistant Dean.

School of Home Economics: Agnes A. Jones, Assistant Dean.

Graduate College: Winthrop C. Difford, Dean.

Learning Resources: Burdette W. Eagon, Dean.

Medford Center: Russell L. Oliver, Dean.

Departments of Instruction

In the College of Fine Arts:

- Art**—Henry M. Runke, chairman.
Communication—Myrvin F. Christopherson, chairman.
Drama (including Dance)—Seldon Faulkner, chairman.
Music—Donald E. Greene, chairman.

In the College of Letters and Science:

- Biology**—Virgil A. Thiesfeld, chairman.
Chemistry—Roland A. Trytten, chairman; Robert H. Weaver (August 1972).
Economics and Business—James E. Jensen, chairman.
English—Leon E. Lewis, chairman.
Foreign Language—Howard C. Adams, chairman.
Geography—Robert T. Anderson, chairman.
History—Justus F. Paul, chairman.
Mathematics—Charles H. Johnson, chairman.
Philosophy—John P. Zawadsky, chairman.
Physics—Monica E. Bainter, chairman; Francis L. Schmitz (August 1972).
Political Science—F. Mark Cates, chairman.
Psychology—Lloyd H. Beck, chairman.
Sociology and Anthropology—David B. Stafford, chairman.

In the College of Natural Resources:

- Natural Resources**—Bernard F. Wievel, acting Assistant to the Dean.

In the College of Professional Studies:

- School of Communicative Disorders**—Gerald F. Johnson, Assistant Dean.
School of Education—John E. Bolen, Assistant Dean.
Business Education—Robert L. Hille, chairman.
Education, Elementary—Robert R. Schmatz, chairman.
Education, Secondary—Roger F. Bauer, chairman.
Health, Physical Education, and Recreation—Eugene N. Brodhagen, chairman;
Robert O. Bowen (August 1972).
Learning Resources—Roy J. VanDreser, chairman.
Student Teaching—Thomas J. Hayes, Director.
School of Home Economics—Agnes A. Jones, Assistant Dean.
Military Science—Neil L. O'Keefe, chairman.
Pulp and Paper (Paper Science and Technology)—Michael J. Kocurek, Director.

General Administration

- Admissions:** John A. Larsen, Director; Russell Lundquist, W. William Zimdars, Assistant Directors; Doris Becker, Examiner.
Alumni Association: Frederic D. Frederick, Director.
Archivist, University: Nelis R. Kampenga.

Arts and Lectures: Jack G. Cohan, Director.

Athletics: Robert H. Krueger, Director.

Budget Planning and Analysis: Paul Kelch, Director; Leonard Sippel, Analyst.

Campus Planning: Raymond E. Specht, Director; Harlan H. Hoffbeck, Associate Director; George V. Leffler, Relocation Officer.

Center for Communicative Disorders: Frederic A. Tuszka, Director.

Controller: Donald J. Hosie; Robert J. Aebischer, Supervisor of Accounting Services; Wilfred Kappus, Supervisor of Accounts Receivable; Virginia Zurawski, Cashier.

Cooperative Education Program: Harold Graver, Coordinator.

Counseling Center: Dennis E. Elsenrath, Director; Marcus C. S. Fang, Frederick F. Littmann, Robert E. Mosier, Irene M. Yost.

Data Processing: Robert P. Schmidt, Director; David R. Nottleson, Manager, Operations; Michael C. Sowiak, Manager, Systems and Programming.

Data Processing, Instructional: Frederick M. Hilpert, Associate Director; Kenneth H. Nelson, Assistant Director.

Extended Services and Federal Projects: Orland E. Radke, Director; Barbara A. Farlow, Assistant Director.

Financial Aids (student): Philip C. George, Director; Thomas H. Goltz, John W. Holdridge, Assistant Directors.

General Services: Adolph J. Torzewski, Director; Ronald W. Juhnke, Personnel; Gerald L. Burling, Purchasing.

Gesell Institute for the Study of Early Childhood: John C. Pearson, Director.

Health Service: Donald D. Johnson, M.D., Director.

Housing (student): Frederick F. Leafgren, Director; Melvin J. Karg, Assistant Director; Joseph J. Scalise, Robert Taylor, Assistants to the Director.

International Programs: Pauline H. Isaacson, Director.

Learning Resources: Burdette W. Eagon, Dean.
Instructional Media Services: Donald W. Lacock, Director.
Public Services: Allen F. Barrows, Director.
Technical Services: Keith F. Lea, Director.

Museum of Natural History: Charles A. Long, Director.

News and Publications: John E. Anderson, Director; Marilyn Thompson, Publications Editor.

Physical Plant: Hiram L. Krebs, Director.

Placement and Career Counseling: Dennis E. Tierney, Director; Charles H. LaFollette, Assistant Director; Jane P. Clark, Counselor.

PRIDE (Programs for Recognizing Individual Determination through Education): John C. Messing, Director.

Registration and Records: Gilbert W. Faust, Director and Registrar; David J. Eckholm, Assistant Registrar; A. Sidone Andersen, Dorothy D. Karr, Auditors of Academic Records; Geraldine Garski, Supervisor of Registration; Regina K. Whittaker, Supervisor of Records.

Research and Studies (Institutional): William H. Clements, Director; Paul C. Holman, Associate Director.

Residence Center Programmer: C. Dennis Nuckols.

Student Activities: Mary A. Tolan, Director; Eric H. Kurz, Assistant to the Director.

Student Teaching: Thomas J. Hayes, Director.

Summer Session: Winthrop C. Difford, Director.

University Center: Ronald A. Hachet, Director; Oliver J. Steiner, Assistant Director; Robert W. Busch, Program Director; Mary Ellen Lynch, Program Adviser; Hermie

D. West, Manager, University Store; John Hutchinson, Food Service Manager; Joe St. Marie, University Center Business Manager.
Upward Bound: John C. Messing, Director; Raymond M. DePerry, Assistant Director.
Vietnam Mission: William B. Vickerstaff, Director.

Chancellor's Committees

Administrative Council: Chancellor, Assistant Chancellors, and Assistants to the Chancellor.

Chancellor's Advisory Council: Chancellor; Assistant Chancellor for Academic Affairs; Assistant to the Chancellor; Chairman of the Faculty Senate; Chairman of the Academic Affairs Committee; Chairman of the Student Affairs Committee; President of the Stevens Point local of the Association of Wisconsin State University Faculties; and one Chancellor's appointee.

Budget Advisory Committee: Assistant Chancellors and Assistant to the Chancellor.

Management Information System Committee: Mr. Torzewski, chairman; Mr. Gibb, Mr. Schmidt, Mr. Sigmund.

Emergency Operations Committee: Mr. Kelch, chairman; Mr. Bell, Mr. Coker, Mr. Difford, Mr. Ellery, Mr. Engelhard, Mr. Fritschel, Mr. Gibb, Mr. Haferbecker, Mr. Heimlich, Dr. Donald Johnson, Mr. Krebs, Mr. Specht, Mr. Torzewski.

Long Range Physical Plant Planning Committee: Mr. Dreyfus, Mr. Bell, Mr. Specht, Mr. Michael Rounds Metcalf, Mrs. Mary Williams, Mr. Krebs.

1971-72 Faculty Officers:

Chairman: Frank W. Crow.
Secretary: William Skelton.
Treasurer: Roger Wood.
Member, Executive Board: Oliver Andrews.

1971-72 Graduate Faculty Officers:

Chairman: Mr. Knowlton.
Graduate Council: Mr. Frederick M. Baumgartner, Mr. Richard Bray, Mr. Chappell, Mr. Difford, Mr. Garth, Mr. Gibson, Mr. Haferbecker, Mr. Kroner, Miss McDonald, Mr. Multhauf, Miss Narron, Mr. Sandmann, Mr. VanNuys, Mr. Zawadsky.

University Associates:

Cold Water Fisheries (Waupaca): Eddy Avery, Oscar Brynildson, Robert Carline, Robert Hunt.

Communicative Disorders: R. H. Brodhead, M.D., Wausau Clinic; J. V. Flannery, M.D., James G. Cravens, M.D., Flannery-Cravens Clinic (Wausau).

Emergency Government: Robert A. Hensen, Director of Northeast Area Division.

Game Research: Frances Hammerstrom, Frederick N. Hammerstrom, Jr.

Residence Hall Directors:

Baldwin Hall—Jud Terrell; Burroughs Hall—Bill McCulley; Delzell Hall—Gwen Nelson; Hansen Hall—Gary Jackson; Hyer Hall—Linda Kaiser; Knutzen Hall—Bob Tomlinson; Neale Hall—Elaine Albracht; Pray-Sims Hall—Don Price; Roach

Hall—Helen Fesler; Schmeeckle Hall—Peg Olson; Smith Hall—Jim Naser; Steiner Hall—Tom Lehr; Thomson Hall—Steve Scott; Watson Hall—Dick Kottke.

Health Service Staff:

Donald D. Johnson, M.D., Director; Gene H. Numsen, M.D.; William G. Hettler, M.D. (August 1972); Mary Fleischauer, R.N.; Kathleen A. Gotham, R.N.; Helen I. Hansen, R.N.; Alyce Smith, R.N.; Karen Kutella, Medical Technologist; Carmen Casas, Nurse's Aide.

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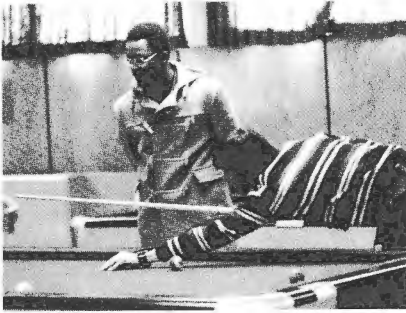
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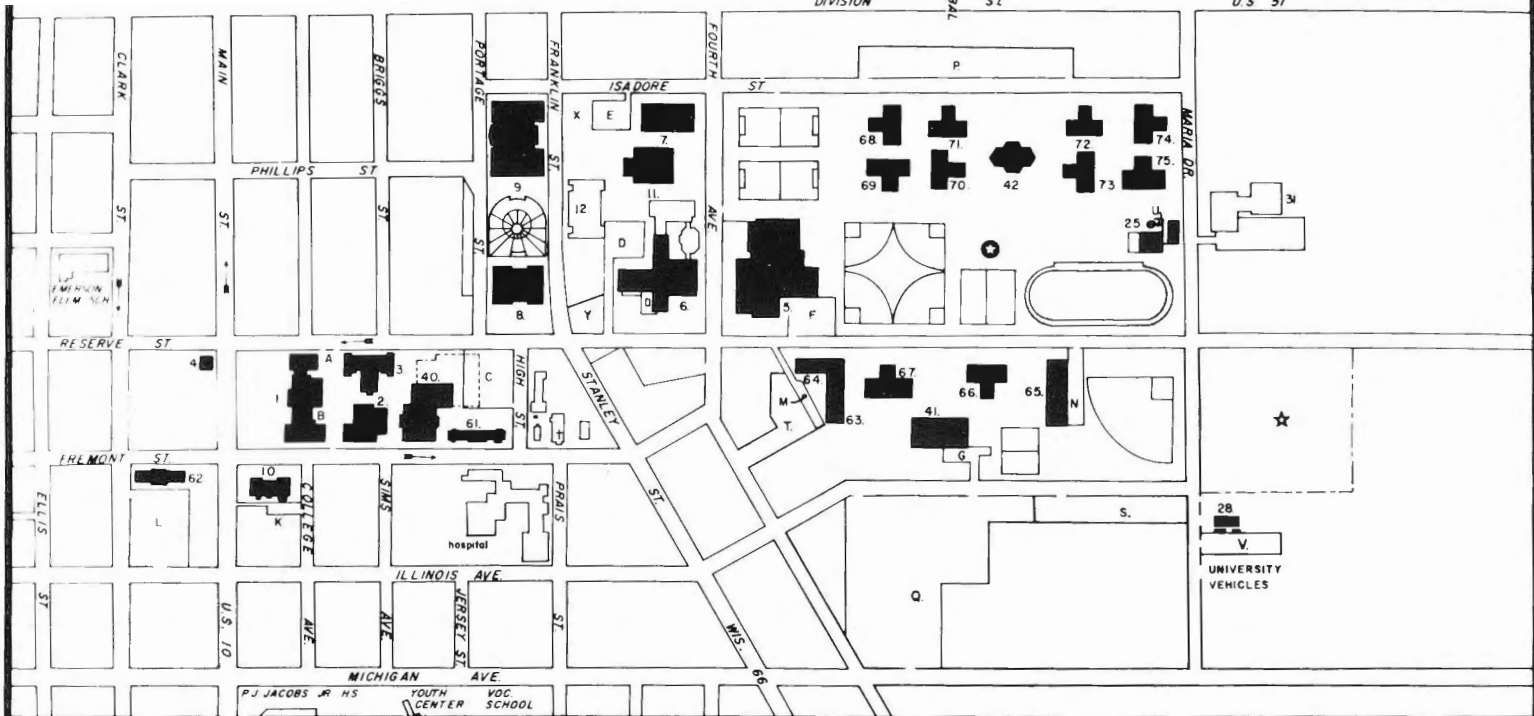
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- 2 STUDENT SERVICES CENTER
- 3 LABORATORY SCHOOL
- 4 HOME MANAGEMENT HOUSE
- 5 PHYSICAL EDUCATION CENTER
- 6 SCIENCE CENTER
- 7 CLASSROOM CENTER
- 8 LEARNING RESOURCES CENTER
- 9 COLLEGE OF FINE ARTS

- 10 NELSON HALL

- 11 COLLEGE OF PROFESSIONAL STUDIES
- 12 COLLEGE OF NATURAL RESOURCES

PHYSICAL PLANT BUILDINGS

- 25 HEATING PLANT
- 28 MAINTENANCE SHOPS
- 31 MAINTENANCE & STOREKEEPING

UNIVERSITY & RESIDENCE CENTERS

- 40 UNIVERSITY CENTER
- 41 ALLEN RESIDENCE CENTER
- 42 DE BOT RESIDENCE CENTER

RESIDENCE HALLS

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- 62 STEINER
- 63 PRAY
- 64 SIMS
- 65 HYER
- 66 ROACH
- 67 SMITH
- 68 BALDWIN
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- 74 WATSON
- 75 THOMSON

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