

WISCONSIN STATE UNIVERSITY

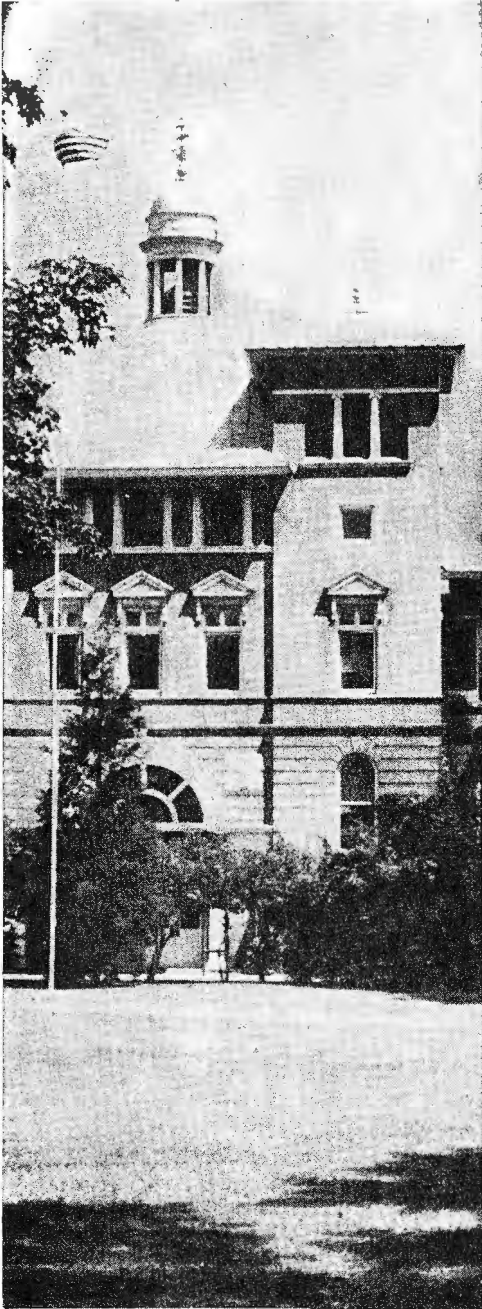


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catalog

WSU Stevens Point Calendar

	1966-67	1967-68
First Semester		
Registration	Sept. 7-9	Sept. 6-8
Classes begin	Sept. 12	Sept. 11
Thanksgiving recess	Nov. 24, 25, 26	Nov. 23, 24, 25
Christmas recess begins	Dec. 17	Dec. 16
Classes resume	Jan. 2	Jan. 2
Final examinations	Jan. 13-21	Jan. 12-20
Second Semester		
Registration	Jan. 26-27	Jan. 25-26
Classes begin	Jan. 30	Jan. 29
Easter recess begins	March 18	April 6
Classes resume	March 28	April 16
Final examinations	May 26-June 3	May 24-June 1
Memorial Day	May 30	May 30
Commencement	June 4	June 2
Summer Session	1966	1967
Classes begin	June 13	June 12
Final examinations	August 4-5	August 3-4
Commencement	August 6	August 5



Wisconsin State
University
Stevens Point

Catalog
1966/1967



Wisconsin State University

Stevens Point

A member of

The American Association of Colleges for Teacher Education

The American Council on Education

The Association of State Colleges and Universities

The North Central Association of Colleges and Secondary Schools
Accredited by

The National Council for Accreditation of Teacher Education

The North Central Association of Colleges and Secondary Schools

Women graduates of the university are eligible for membership in
the American Association of University Women.

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On our cover: WSU Stevens Point Science Building

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The Student's Responsibility

All colleges 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 Wisconsin State University-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.



General Information

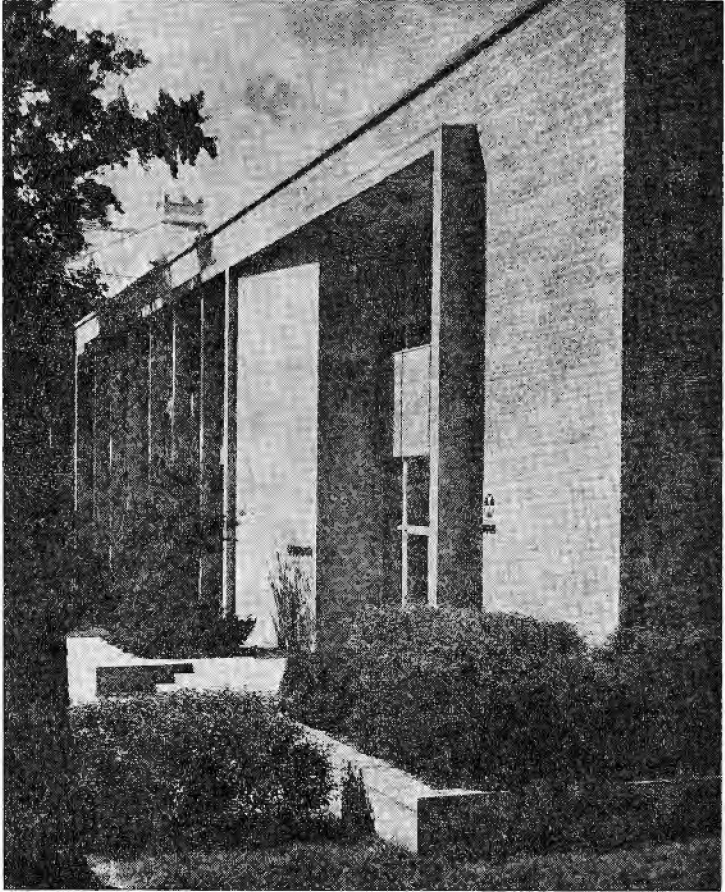
Purpose and Long Range Goals

The primary purpose of Wisconsin State University-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 achievement 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.

Wisconsin State University 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, conservation, home economics, medical technology, music, and speech correction.

The master's degree program for teachers will be implemented on an academic year basis in September, 1966. Classes will be available on a Saturday and late afternoon basis as well as during the summer session.

The Campus

Wisconsin State University-Stevens Point, one of nine state universities, was originally established in 1894 for the education of teachers. Stevens Point, a city of 21,500, is located in the heart of the Wisconsin River Valley, and in a metropolitan area of 27,000. The university serves about 4,500 students from Wisconsin, neighboring states, and several foreign countries. The campus is located about a mile east of the business district of Stevens Point.

The university's dramatic expansion in the past few years has greatly increased both academic and social facilities on the campus.

Old Main

The Main building includes the administrative offices, the auditorium, and general classrooms.

Science Building

Located a few blocks north of the Main building, the Science building houses the biology, chemistry, geography, and physics departments. Opened in September 1963, the building features a Foucault pendulum, planetarium, facilities for radiation research, greenhouse, live animal room, weather panel with remote recording instruments, and a cartographic reproduction laboratory.

Fieldhouse

The Physical Education building is located at the corner of Fourth Avenue and Reserve Street, just north of the Science building. Opened in the fall of 1960, it includes gymnasiums, an indoor practice area, a swimming pool, and several classrooms. Playing fields are just north of the building.

Library

The University Library is located between the University Center and the Main building, connected to these two buildings by tunnels. The book resources of the library, totalling 120,000 volumes, are available for the most part in open-shelf use. Over 1000 titles of periodicals are on file offering back-files to the mid-nineteenth century. The library offers cooperatively with the other state university libraries rapid inter-library service, chiefly by photo-duplication of journal materials. The state university libraries have developed a union file of journals for this purpose. Similar cooperative catalogs for other forms of material are in preparation. In 1950 the library was designated an official Federal Documents Depository, providing a rich selection of these materials to add to its extensive collection of documents.

Campus School

The Campus Laboratory School is located just north of the Main building on Reserve Street. It provides facilities for educational research, for pre-teaching observation, and for demonstration teaching. Student teaching experiences are acquired in the public schools of Stevens Point and neighboring communities.

Home Management House

The Home Management House gives the majors in home economics 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.

University Center

The University Center, located just north of the Library, was opened in the spring of 1959. A recent addition, completed in 1965, has doubled its size. The Center serves as the hub of campus social life. It includes dining facilities, a completely equipped snack bar, a variety of meeting, game and recreation rooms, the office complex of student organizations and publications, and the University Center staff offices.

Residence Halls

Ten residence halls, eight of recent construction, are homes for more than 2200 students. Residence halls are self-financed. All expenses are defrayed by the fees paid by the residents. No tax money is used in the construction or maintenance of residence halls.

The university is making plans for further residence hall construction and for a fine arts building and a learning resources center. A general classroom building is under construction.

May Roach Hall



Office Hours

From September 1 through May, the Administrative Offices of the university are open from 8 a.m. to 12 noon and from 1 p.m. to 5 p.m., Monday through Friday. The Business Office and the Registration and Records Office are also open during the noon hour. The offices are closed on Saturday.

During June, July, and August, office hours are 7:30 a.m. to noon and 1 p.m. to 4:30 p.m., Monday through Friday.

Parking

Parking facilities are available for faculty, staff, and students both resident and commuting.

To park on any of the off-street facilities provided by the university, it is necessary to display a parking permit sticker on the vehicle. This sticker can be obtained without cost at the Business Office in the Main Building.

Parking for commuting students is restricted to the Physical Education Building lot. Students living in residence halls may park in lots designated for that purpose. Faculty and staff may park privately-owned vehicles on any of the facilities provided except those restricted for use of residents of the various residence halls. A copy of specific parking regulations may be obtained at the Business Office.

With the expanding university population, student parking problems have become more prevalent, and underclassmen are encouraged to leave their cars at home.

Student Life

Activities

Services

Living Accommodations

By administrative action, freshmen and sophomores are required to live in the residence halls. Exceptions are made for married students, veterans, students who reside with their parents, and students 21 years of age or over. The underclassmen, and also the advanced student, will find that the individual attention, counseling, programs and facilities available in the residence hall can be of major assistance in establishing his university career on a firm foundation. An objective of the residence halls is to provide a living-learning experience.

The following residence halls are available for men and women:

Men		Women	
Baldwin Hall	270 residents	Delzell Hall	134 residents
Hansen Hall	270 residents	Neale Hall	270 residents
Hyer Hall	200 residents	Nelson Hall	134 residents
Pray-Sims Hall	404 residents	Roach Hall	318 residents
Smith Hall	286 residents		
Steiner Hall	204 residents		

Students living in the residence halls dine at one of the residence centers. Each hall provides lounge and recreational areas, including game rooms, television, laundry facilities, vending and kitchen complexes and study areas. (See Housing and Dining Services.)

Upperclass students who wish to room off campus may select accommodations from the approved housing list maintained in the office of the Director of Housing. Students 21 years of age or over as of the first day of the semester are permitted to select other housing accommodations if they desire. Residence hall contracts are for the entire academic year. Off campus housing contracts are for the duration of the semester.

Housing and Dining Services

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

- Room** — \$155.00 per semester per student; \$310.00 for the academic year. This includes bed linens and their laundering. Students provide their own pillows, blankets and towels.
- Board** — \$200.00 per semester; \$400.00 for the academic year. 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 same rates available to residents of the halls.

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

Application

Information and housing application forms are mailed to all students admitted to the university. The housing application should be returned as early as possible. The applications are processed in the order in which they are received. The housing application must be accompanied by a \$20.00 room reservation deposit. Notification of cancellation of the room must be submitted to the Director of Housing prior to August 1 for the first semester or January 1 for the second semester to obtain a refund. Deposits may be applied only to the next regular session.

Payment

Students may choose from three payment plans for Housing and Dining Services. Plan A is full payment in advance. Plans B and C are installment plans and include a slight charge for handling costs. Payments should be made by the announced due dates as all late payments are subject to a penalty charge.

Student Health

Wisconsin State University provides a Health Service for students including the services of two nurses and a part time physician. The aim of the Health Service is to prevent serious illness by detecting early symptoms and prescribing treatment.

From the physician, who is in attendance from 9:30 a.m. to 12 noon, Monday through Friday, the student is entitled to medical attention, as needed, in the dispensary. A nurse is on duty from 8:30 a.m. to 7 p.m.

It is necessary that the prospective student complete the Health Record form and return it to the University as soon as possible as

part of the admission requirement. The filing of this medical form is necessary before final admission will be acknowledged.

Hospitalization is not provided as part of the student health service but hospitalization insurance is offered the student in a group plan and may be bought on a voluntary basis. The student is urged to carry adequate health and hospitalization insurance.

Counseling Services

Counseling services are available for all students at the Office of Counseling and Psychological Services. Professionally trained counselors assist students with 1) personal or social problems; 2) academic difficulties, including assistance in study skills and reading improvement; and 3) educational and vocational planning and difficulties. Standardized tests are sometimes used to help the student understand himself and evaluate his goals. There is no charge for these services.

Financial Aids

Requests for financial aid from entering freshmen and transfers will be considered only after a student has been officially *admitted* to the university. When this has been accomplished, the student may apply through the Director of Student Financial Aids for whatever assistance is available. The initial application will be largely a statement of student and parent financial status plus an indication of preference for certain kinds of aid. From this application form, the extent of need will be determined and the kind and amount of aid available will be decided. This process must be followed by upperclassmen also and repeated in each year for which the student requests financial assistance.

The following specific programs will be incorporated into the *Financial Aid* considerations:

Loans

The university works with the Wisconsin Department of Welfare, Division of Student Assistance to process and secure student loans from this account. A separate data sheet clarifying application procedures, eligibility, amounts and repayment requirements is available.

The National Defense Student Loan Program continues to make money available through this university. When deemed advisable, the student will be directed to this fund for a portion of needed expenses. Borrowers must show evidence of need and academic success to be considered. Upon request, the university will provide supportive data through the Director of Financial Aids to activate loan requests to private sources. In most instances, this will entail submitting some evidence of financial need and academic acceptance to support the request.

*These were formerly known as Type A Legislative grants.

Scholarships

Legislative grants for freshmen and upperclassmen are available in limited numbers. The value of each grant is variable depending upon need. The minimum grant shall be \$100. These grants are made available for an academic year and are not automatically renewed.

Federal grants will become available for the first time in 1966-67. Such grants will also vary in amount depending upon a student's need. These grants will automatically continue when academic performance is satisfactory. Superior academic performance may qualify a student for an increase in the amount of his grant.

A limited number of local scholarships are made available through private and university resources. Two such programs honor Miss May Roach and C. F. Watson for their service to youth through WSU-Stevens Point. A third program is one phase of the WSU-Stevens Point Foundation program. All three programs are automatically considered in conjunction with state and federal programs. No separate application is needed. (*Special honor scholarships for graduating high school seniors are available through Higher Education Aids Commission. Requests for such consideration are handled by the executive secretary of that commission from their Madison office.)

Employment

Opportunities for employment *on campus* are available through the:

- A) regular student assistance program
- B) college Work Study Program
- C) college food service facilities

Any student applying for general financial assistance may be referred to one of these programs for a portion of his support. A student seeking no aid other than employment may complete an "application for employment" in the Student Affairs Office. Such students will be considered for *on campus* jobs as well as being referred to community employers. A current file of community job vacancies is maintained in the Student Affairs Office.

A student wage schedule is in effect throughout the university. Many community employers observe a similar minimum wage level.

The Director of Financial Aids is available for students and parents who desire consultation on financial aid programs. Appointments may be made in the Office of Student Affairs.

As a service to home town community agencies granting private scholarships, the Director of Financial Aids will act as an agent. Such grants may be deposited for students with this office.

Special Awards

A number of special grants are given by specific agencies. These awards are:

- The Alpha Kappa Rho Honor Award
- The J.V. Collins Mathematics Award
- Conservation Awards
- The Culver-Rogers Science Award
- The Bessie May Allen Home Economics Award
- Phi Sigma Epsilon Leadership Award
- Sigma Phi Epsilon Student Honor Cup

Information Services

The press function is a part of the Information Services Office. It is responsible for sending material to radio, television, and newspapers relating to the activities and events of the university as well as information on university organizations and individual students, faculty or staff who do something noteworthy in the course of the academic year.

Speech and Hearing Clinic

The Speech and Hearing Clinic is located in Room 014 of the Main Building. The Clinic 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. Diagnosis, treatment, and referral of speech and hearing difficulties are extended also to the people of Wisconsin. Some of the problems encountered in the Clinic are stuttering, articulation defects, cerebral palsy, cleft palate, voice disorders, hearing problems, language disorders, and aphasia.

The Clinic, in conjunction with its educational program, provides practicum experience for students majoring in Speech Pathology and Audiology.

The 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, staff, alumni, and friends of the University. The Center provides cultural, social, and recreational programs which supplement the student's education in the classroom.

University Center Board

The University Center Board, through a student committee structure, plans a varied social program, and invites participation of all students in the development and presentation of its program.

The social program is coordinated by the Director of Student Activities whose office is in the University Center.

Student Senate

The Student Senate is the student governing body at Wisconsin State University-Stevens Point.

The Senate is composed of the following: a president, vice president, secretary, and treasurer elected by the student body; the vice president and three elected representatives from each class; and members from the previous year who remain on the Senate for one semester following the expiration of their elected terms.

There are six standing committees, each with responsibilities in a different area:

Activities Committee — responsible for selection of cheerleaders, maintenance of mailboxes for off-campus students, organization bulletin boards, and Awards Day.

Allocations Committee — responsible for allocating the student activity fee to various organizations.

Committee on Committees — responsible for selection of the student members of the student-faculty committees, in such areas as student housing, women's hours, and library policy.

Elections Committee — responsible for the formulation and enforcement of rules for all-school elections.

Public Relations Committee — responsible for communication between the Student Senate and the students, faculty, administration, and community.

Steering Committee — responsible for the formation of the Senate agenda and maintenance of an up-to-date constitution.

In the belief that one of the prime objectives of student government is training in citizenship for the student body, the Senate presents Student Government Week each year in conjunction with the spring elections, to help inform students about their student self-government.

Associated Women Students

Every university woman is automatically a member of the AWS. Its purpose is to promote a program of activities of special interest to college women, to provide opportunities for leadership, and to encourage high standards of social conduct.

It is governed by an executive board which is elected at the beginning of the second semester of each school year. AWS is affiliated with the Inter-collegiate Associated Women Students.

Fraternities, Sororities, Political and Social Clubs

Social fraternities are Phi Sigma Epsilon, Sigma Pi, Sigma Phi Epsilon, Sigma Tau Gamma and Tau Kappa Epsilon. The sororities are Alpha Phi, Alpha Sigma Alpha, Delta Zeta and Psi Delta Psi. These groups are governed through the Inter-Fraternity and the Panhellenic Councils.

Siasefi is a social club for men.

The "550" club was organized in 1956 for all veterans attending the university.

The *Young Democrats* and *Young Republicans* maintain organizations on the campus.

Young Americans for Freedom, a conservative political and educational organization, maintains a chapter on the campus.

The *Students' Wives Club* provides an opportunity for students' wives to meet and share social activities. Membership is open to all wives of students who are currently enrolled in the university.

Tau Gamma Tau, an organization for older students, who because of their particular circumstances with relation to the rest of the student body, desire a social organization in keeping with their interests and circumstances.

Professional and Departmental Student Organizations

There are several professional organizations in the university. Membership in each consists of the students who are enrolled in a certain division or who are taking work in the same field. The aims of these clubs are in part social, as their activities would indicate, but they also strive to develop in their members a sincere professional interest in the fields they represent.

Alpha Kappa Lambda is composed of students majoring or minoring in conservation. Organized to promote a better understanding of natural resources and their intelligent use, it serves the university's Conservation Department through research, public relations and committee services. Its social program features the "Woodchoppers' Ball," an annual venison steak dinner, and a smelt fry.

The *Economics and Business Association* is an organization for students majoring or minoring in economics, and for pre-commerce students. It presents an outlet for ideas, discussions, and interchange of thoughts among students of these subjects. One of the main functions of the association is to bring in outside speakers in economics and related fields.

The *Foreign Language Clubs* consist of students who study French, German, Russian, and Spanish, and are open to those who have a speaking knowledge of these languages. They are primarily social clubs which seek to promote the study of cultures of the foreign countries through movies, speakers, songs, and other cultural activities.

The *Future Elementary Teachers Association* is an organization of the students who are preparing for intermediate and upper elementary grade teaching.

The *Geography Association* strives to foster an interest in geography for students at this university. It is further intended to promote a wider scope of geography by having interesting and authoritative speakers, and to promote a better union of students through the use of educational and recreational field trips and activities pertaining to the field of geography.

The *Home Economics Club* includes those majoring and minoring in home economics. In addition to its professional and social activities, it aims to be of service to the university and the community.

The *Mathematics Symposium* is an organization composed of students interested in mathematics. It affords opportunities for students to get together and discuss mathematical topics which may be of interest to them.

The *Political Science Association* unites those interested in political science through discussion, speakers, and related activities.

Junior Primary Council is a professional organization for freshmen and sophomore students enrolled or interested in Primary Education. Its purpose is to give the students an insight to teaching through actual experience in working with children, observations, and educational information.

Senior Primary Council is a professional organization open to all juniors and seniors in Primary Education. The council provides its members with the opportunity to become acquainted with the problems of the profession, and learn methods and approaches of solving these problems.

Secondary Education Association is a professional organization for all students enrolled in Secondary Education. SEA, a branch of the National Education Association and the Wisconsin Education Association, was organized to help all prospective high school teachers become more familiar with the problems and goals of secondary education.

Sigma Mu Tau, the professional organization for medical technology students, seeks to aid members in their field.

Speech and Hearing Association has as its purposes: 1) to create and stimulate an interest among college students in the field of speech and hearing rehabilitation; 2) encourage professional growth; 3) offer professional and social fellowship; 4) inspire high planes of achievement in academic and clinical activities; 5) to aid in building wholesome public relations with those interested in knowing about the field of speech and hearing. The Association is composed of students majoring in Speech Pathology and Audiology and other persons who are interested in communicative disorders. The Association holds monthly meetings to listen to invited speakers from allied professions.

Student Art League purposes to promote better understanding and appreciation of art on the campus and in the community; to enable art majors and minors in the art field to exchange ideas freely among friends; and to make work executed by the members available to the student body, faculty, and community for viewing and purchase.

Academic Honors

The faculty has established a system of academic honors to recognize the achievement of students with high grade point averages. Grade point averages are computed each semester with highest honors designated for students with a grade point average 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 institution.

Honorary Organizations

Alpha Gamma — Honorary Social Science fraternity, the purposes of which are to promote interest of the student body in social sciences; to present interesting and intellectual programs to the students and to encourage scholarship.

Alpha Psi Omega — National honorary dramatic fraternity recognizes students who have exhibited special talent and ability in varied areas of theatre productions.

Associated Women Students Honor Society recognizes and has as its members women who have contributed much to the campus in terms of leadership and service. Junior women are "tapped" every spring.

Delta Omicron — International professional music fraternity whose purpose is to do any and all things conducive to the service, betterment, and ultimate welfare of women in music. Individual members strive for continued achievement in the field of music.

Delta Phi Delta — National honorary art fraternity, open to qualified students majoring or minoring in art.

Phi Alpha Theta — National history fraternity whose purpose is to unite those who are interested in history and to provide for their interests with such activities as speakers, discussion groups, and the encouragement of research by the members.

Phi Mu Alpha Sinfonia — National professional music fraternity. Its purposes are to advance the cause of music in America; to foster the mutual welfare and brotherhood of students of music; to develop the truest fraternal spirit among its members; and to encourage loyalty to the alma mater.

Sigma Tau Delta — National professional English fraternity. Its purposes are threefold: 1) to foster creative writing on the campus; 2) to encourage an intelligent and appreciative study of literature, as well as an interest in research; and 3) to stimulate in members of the chapter a desire for continual achievement especially in authorship after graduation.

Sigma Zeta — National Honorary Science Society designed to increase an interest in and a knowledge of scientific matter. The association encourages high scholarship among students and grants recognition to those science or mathematics students who have attained high academic levels in their fields.

Special Interest Groups

The following organizations serve the specialized interests of students: Alpha Phi Omega, Amateur Radio Club, Band, Cassia Chess Club, College Theatre, International Students Organization, Men's Glee Club, Pocket Billiard League, "S" Club, Ski, Student Chapter of the American Guild of Organists, Weight Lifting Club, and Women's Recreation Association.

Art Exhibits

A year-round series of art exhibitions is open to all students. Housed in the Library Theatre and Foyer, these exhibitions feature artists of national and regional reputation. The Director of Art Exhibits under the supervision of the Art Department is in charge of the series. Another series of exhibitions is provided by the senior art major students who hold shows from time to time in the Frank Lloyd Wright Lounge of the University Center. Both series are open to all students and to the public without charge.

Athletics

Interscholastic sports in which the university participates as a member of the Wisconsin State University Conference are football, basketball, baseball, track, gymnastics, wrestling, tennis, cross-country, swimming, and golf. In addition, the university competes against most of the other colleges within the state in various sports. All men students physically fit are urged to take part in one or more of these activities.

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.

Intramural athletic teams may be formed by dormitories, fraternities, church organizations, independent groups, etc. The purpose of the program is to provide competitive and non-competitive activities mainly for those students not participating in interscholastic athletics. 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, pass-punt-kick, soccer, swimming, touch football, paddleball, foul throw, basketball, badminton, bowling, handball, table tennis, volleyball, ice hockey, golf, relays, softball, tennis and track and field.

Women's sports are planned by the Women's Recreation Association, an organization for which all university women are eligible. W.R.A. supervises and sponsors a variety of recreational activities including archery, badminton, basketball, golf, softball, swimming, tennis, and volleyball.

During the year the W.R.A. attends a number of playdays and sportsdays held at other colleges in the state. Several social events are planned so that members become better acquainted.

Dramatics and Forensics

The university offers a rich program of dramatic and forensic activities operated by the Speech and Drama Department and open to all students, whether or not they major or minor in speech.

The dramatics program includes four major productions for the public and a number of "workshops" and experimental projects.



These offer laboratory experience in directing, acting, stage design, and the multiple aspects of technical theater, under the leadership of a professional staff. Here is an outlet for many types of talent and interest. Recent productions have run the gamut from *The Merchant of Venice* to *Death of a Salesman* to *Rhinoceros*. College Theater, the undergraduate student organization, sponsors additional activities and programs, while providing fellowship with others of similar cultural interests. Alpha Psi Omega is the honorary national dramatics fraternity.

During the summer the Department of Speech and Drama offers a Summer Theatre Festival. This unique enterprise features a Scholarship Repertory Company of actors plus the talents of all interested students in a series of consecutive performances of the world's finest dramatic fare. Membership in the Repertory Company is open to qualified students. Academic courses in Drama and Interpretation are coordinated with the Summer Theatre Festival, including the 1-6 credit Summer Theatre Workshop (Special Studies 9-179), which offers variable credit for participation in the many phases of the Summer Theatre Festival.

Participation in a series of reading hours, chamber theater, and intercollegiate festivals is also open to all students.

Debate is a developing activity in the University. Both the Varsity and Novice units welcome new members and offer opportunity for intercollegiate tournament competition.

Other forensic activities and Radio-T.V. Workshop round out the opportunities a student may enjoy under profession guidance.

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, choir, men's and women's glee clubs, opera workshop, brass choir, percussion ensemble, 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 *LaBoheme*, *The Marriage of Figaro*, and *Carmen*. Musicals have included *South Pacific* and *Carousel*. Numerous solo recitals by faculty members and students are open to the public throughout the year.

Publications

The *Iris* is the university yearbook. It is produced by a student staff selected and advised by the Director of Information Services. It serves as an excellent opportunity for students to learn and develop skills in layout, writing, editing, and photography.

The *Pointer*, the university newspaper, is produced weekly by a student staff selected by the student editor and the advisor who is the Director of Information Services. The editor is selected by the

Publications Board, a board composed of four students and three faculty members. 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, proof-reading, layout, advertising, and photography.

Publications such as the *University Catalog*, *Summer Session Bulletin*, *Graduate Bulletin*, monthly *Calendar of Public Events*, various brochures, special bulletins, and fliers are produced through the Information Services Office.

Radio and Television

The Radio-TV Workshop offers opportunity for study and practice in production. The university has facilities for a carrier-current radio station capable of servicing the residence halls on the campus. Opportunities are provided for work in engineering, announcing, writing, directing, producing, and selling radio programs.

Television programs are prepared by students and faculty and are presented over commercial television stations located in the area served by the university.

Religious Organizations

A number of the churches in Stevens Point sponsor organizations which are designed to strengthen the religious life of the students who desire to affiliate with them. They also provide social, recreational, and cultural programs.

They include:

Canterbury — an organization of Episcopal students.

The *Christian Science Organization* — open to students interested in Christian Science.

Deseret Club — Church of Jesus Christ of Latter Day Saints.

Gamma Delta — a chapter of the National College Fraternity of the Missouri Synod Lutheran Church.

Inter-Varsity Christian Fellowship — a non-denominational organization open to all students interested in a study of the Bible.

The *Lutheran Student Association* — an organization of all Lutheran students, sponsored by the Lutheran Council in the United States.

Newman Student Association — an organization of Roman Catholic students.

The *Roger Williams Fellowship Group* — an organization of Baptist students.

The *United Campus Christian Fellowship* — an all-campus activity sponsored by the Disciples of Christ, Evangelical United Brethren, Presbyterian, and United Church of Christ (Congregational, and Evangelical and Reformed) Churches.

Wesley Foundation — an organization of Methodist students and other protestants.

The Council of Religious Organizations is an organization composed of two representatives elected from each of the campus religious groups. Its purpose is to coordinate religious activities and to sponsor interdenominational programs including a religious orientation program each fall for incoming freshmen.

Regulation of Participation in Activities

The university provides for participation in all the customary activities. In some instances the student may register for credit in these activities. In such cases 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 number permitted. When a student is registered for credit, his obligations in the activity are the same as in any other course, and at the end of the semester the teacher will give a grade. If the student participates without credit, the activity is co-curricular.

Activities are important features of college education and students are urged to add to their personal, social, and professional experience and enjoyment by participating in them. However, experience has shown that many students new to university life do not regulate their study and activities wisely, with the result that they fail to maintain the required academic standing.

The following regulations govern participation in co-curricular activities:

- 1) The week preceding semester examinations and the period of semester examinations shall be considered as a closed period during which no activities, practices, or rehearsals shall be participated in or sponsored for public presentation by the university. Further, no organized meetings or social activities shall be sponsored by any university organizations during the above period, with the exception of interscholastic athletics.
- 2) The following regulations are mandatory for all students:
 - a. During his first semester in the university, a student will be permitted participation in no more than two co-curricular activities.
 - b. Any student on probation will be limited to participation in only one co-curricular activity.
 - c. For the establishment of eligibility of participants, every faculty member in charge of an activity shall furnish the Associate Deans with a list of all participants. Eligibility will be established on the basis of the previous semester's record. Such establishment shall be made at the beginning of each semester as well as at the beginning of the activity.
 - d. The following activities are exempt from the above regulations: religious organizations, professional activities, and intramurals. However, the regulations shall apply to holding office in these activities.

New Student Orientation

During the year the university holds several "senior day programs" when prospective freshmen and their parents are invited to come to the campus to visit with faculty and student leaders and get a preview of the university.

During the summer months prior to his entrance as a freshman, the accepted applicant and his parents are invited to spend a day on the campus. During this time he has a conference with his adviser, prepares his class schedule for the first semester, and meets with selected members of the student body. An opportunity is also provided for him to visit with representatives of the Office of Student Affairs regarding housing, financial assistance, and other specific problems.

New students are requested to come to the campus several days prior to the beginning of classes so that special emphasis can be focused upon their individual and group concerns. A series of programs and activities, involving upperclass students and faculty, is devoted to helping new students become acquainted with the university community.

Student Expenses

Tuition

(Regular session)

Residents of Wisconsin	No Charge
Non-residents (full-time only), per semester	\$170.00

Incidental Fees

(Regular session)

Full-time (8 credits or more), per semester	105.00
Part-time (7 credits or less)	
Residents, per credit	13.00
Non-residents, per credit	36.00

Extension Course Fees

Undergraduate fee, per credit	13.00
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Textbook Rental Fees

(Regular session)

Full-time (8 credits or more)	9.00
Part-time, per credit	1.00
Extension and Saturday classes, per credit	1.00

Student Activity Fees

(for all students)

Full-time, regular session, per semester	15.00
Part-time, regular session, per semester	7.50

University Center Fees

(regular session, per semester)

Full-time (8 credits or more)	12.00
Part-time (7 credits or less)	7.00

Total Fees for full-time undergraduate resident students are \$141.00 per semester. All fees are subject to change.

The Student Activity Fee supports athletic, forensic, and student entertainment activities; the Pointer; the Iris; health services; and class dues. (Part-time fee does not cover health services and the Iris.)

Refunds

The following statement of refunds applies for tuition, incidental, book rental, activity, and union fees.

During the regular session, a refund of 80% will be granted for withdrawal during the first and second weeks of the semester, 60% during the third week, 40% during the fourth week, and 20% during the fifth week. No refund will be granted after the fifth week.

During the summer session, a refund of 75% will be granted for withdrawal during the first week. No refund will be granted after the first week.

Refunds on Housing and Dining Service deposits will be granted if requested before August 1 for the first semester, or January 1 for the second semester. After the first day of classes, no refunds will be made for housing except in unusual circumstances. Refunds will be made for Dining Service contracts on a pro rata basis. Applications for refunds are available in the office of the Director of Housing.

The following is the procedure for obtaining refunds of fees or room and board payments.

1. Report to Student Affairs for required interview and Refund Claim Form.
2. Obtain Program Change forms from Registrar's Office.
3. Obtain signatures required for release from courses and various department charges.
4. Return forms required by Registrar and obtain required signature.
5. Return forms to Student Affairs to obtain required signature and establishment of withdrawal date.

Refunds will be processed through State Treasurer. Notification will be made within seven days of amount of refund and probable date of payment.

Miscellaneous

A Graduation Fee of \$6.00 is payable the semester or summer session the student graduates.

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

A fee will be assessed in certain Physical Education courses, to cover cost of towel laundering and other items.

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

Courses of individual instruction in applied music (Music 5, 15, and 105) require a special fee of \$25 per course per semester. Special music scholarships are awarded each spring to talented high school seniors. (Detailed information is given in the music section of this catalog.)

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

Admission

Entrance Requirements for Freshmen

To qualify for admission to Wisconsin State University-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 by the principal of the high school for admission to the university.
3. He must rank in the upper three-fourths of his graduating class.
4. He must present a minimum of nine units from the following fields: English and speech; foreign language; natural science; history and social science; mathematics.

The American College Test (ACT) is required prior to enrollment. No other entrance exam can be substituted. The test, given several times during the year at locations in Wisconsin and other states, should be taken during the student's senior year of high school. Registration for the test can be made at any high school principal's office. The test results are used by the university for counseling purposes and are also considered in the determination of scholarship awards.

A student in the lowest quarter of his high school class may be admitted on probation on the basis of the high school principal's recommendation and his score on the ACT Exam. The same test is used in all Wisconsin state universities. A student may establish eligibility by summer school attendance. A student must take at least six credits and earn a C average or better in the total credits taken.

Exception: New freshman applicants who are not residents of Wisconsin must rank in the upper 40% (60th percentile) of their high school class, or earn a composite score on the ACT exam which will place the student at or above the 60th percentile of students who have taken the exam. Those who do not qualify on this basis may establish eligibility by summer school attendance. Such students must take at least six credits and earn at least a C average in the total credits taken.

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 when properly filled out. The applicant should request the principal 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. If he is admitted to the university, a "Permit to Enroll" will be mailed to the applicant.

After the student has finished the seventh semester of his high school course, he may make application for admission. Please refer to the application blank for filing dates. 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 two transcripts 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.

A student intending to transfer to this university should consult the Dean of the School in which he plans to enroll. The dean will evaluate the credits offered, and will prepare a planning sheet outlining the work necessary to qualify for graduation.

A student who has attended another college and whose overall average is below "C" may be admitted on probation if a similar record at Stevens Point would have entitled him to continue in college on probation.

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 college for at least one semester if he was last registered as a freshman, or for two semesters if he was last registered as a sophomore, junior, or senior. Then he may make application for admission to the Director of Admissions, who will refer his request to the Dean of the School in which he wishes to enroll. A letter stating reasons for previous poor record and interim occupation must accompany the application for admission. 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.

Re-admission 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, two transcripts 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.

Entrance as an Adult Special Student

Applicants who are not high school graduates may be admitted as candidates for a degree on their giving satisfactory evidence of their ability to do college work. Such applicants must be twenty-one years of age or must have been in the U.S. armed services.

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

Late Registration

No student may register in the university, or for an additional course, after the end of the second week of classes in any semester. Students who register more than one week after the semester opens may be required to carry a reduced study load.

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 Advising

On enrolling in this university, a student is assigned to an adviser who will help him arrange his academic program along lines suggested by the student. Several times during the year the adviser holds conferences with the student on the progress of his academic work, his extra-curricular program, his work load outside school, or on any other phase of the student's life at the university.

The office of Counseling & Psychological Services is also available to all students to discuss academic difficulties or any indecision concerning choice of a major or vocational plans.

Majors and Minors

Both Majors and Minors are offered in the following fields: American Civilization, art, biology, chemistry, conservation, economics, English, French, general science, geography, German, history, home economics, mathematics, music, physics, political science, psychology, social science, sociology, speech, and women's physical education. A major only is offered in business administration, business education, and in medical technology.

Minors are also offered in East Central European studies, Latin American studies, library science, philosophy, men's physical education, and Russian.

Students should consult the section on the School of Letters and Science, the School of Education, the School of Applied Arts and Science, or the School of Fine Arts, to determine circumstances within which majors and minors are required. Courses required to complete each major and minor are to be found in the section of this catalog entitled Description of Courses.

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. The student's dean may permit up to 17 semester hours, plus one semester hour of physical education when required. The committee of Academic Deans considers appeals to take loads in excess of these amounts, but permission to do so is granted only in unusual cases and only to students whose academic records warrant the exceptions.

Veterans under Public Law 550 are expected by the Veterans Administration to carry 14 semester hours to qualify for full benefits.

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.

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 dropped after the end of the second week of classes but prior to the end of the ninth week of classes. Courses dropped before the end of the second week of classes do not appear on the student's record. (Not included in calculating the grade point average.)

WP (Withdrawn passing) indicates that a course was dropped after the end of the ninth week of classes, while the student was doing passing work. (See last two paragraphs under "Change of Registration.") (Not included in calculating the grade point average.)

WF (Withdrawn failing) indicates that a course was dropped after the end of the ninth week of classes, while the student was doing failing work. (Included in calculating the grade point average.)

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. (See statement on "Incompletes.")

The Grade Point Average (GPA) is computed by dividing the number of points earned by the number of semester hours elected. In computing the grade point average, "WF" is treated as an "F". The designations "S", "W", and "WP" are not included in the computation of the grade point average. The maximum average is 4.00; the minimum is 0.00. The grade point average is used in determining eligibility for honors, admission to divisions, and membership in a number of campus organizations, when scholastic achievement is one of the criteria. It represents the general quality of a student's work.

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.

Incompletes

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 first six weeks of the next semester or it automatically becomes a failure. An extension of this time limit may be granted by the instructor, in which case he will file a written statement to this effect with the registrar.

Classification

A student must have 25 credits and 50 grade points before he may register as a sophomore; 58 credits and 116 grade points and be accepted by a major department or division before he may register as a junior; and 88 credits and 176 grade points before he may register as a senior. Required physical education credits will not be included in these classifications. A point-credit ratio of 2.00 is necessary for graduation.

Probation

A student may be on academic probation for any one of several reasons. The period of probation is one semester.

1. A freshman may be admitted on probation. See the statement under "Entrance Requirements for Freshmen."
2. A student who has attended another college or university and whose overall average is below "C" may be admitted on probation if a similar record at this university would have entitled him to continue in the university on probation.

3. Any transfer student admitted to the university who was on probation at the time of his withdrawal from the previous institution attended, or who was dropped there, is automatically placed on probation, and the probationary regulations of this university apply thereafter.
4. A student who has been readmitted after being suspended for academic reasons is placed on probation.
5. A student will be placed on probation if his cumulative grade point average at the end of any semester is less than 2.00. Special terms of probation may be set by the Dean of the School in which the student is registered.

Suspension; Readmission

I. A student will be suspended from the university on the basis of his academic record for any one of the following reasons:

1. A student will be suspended at the end of his first semester in the university if his grade point average is below 1.00.
2. A freshman will be suspended at the end of the second semester of the academic year if both his grade point average for the second semester of the academic year is below 2.00 and his cumulative grade point average is below 1.75.
3. A sophomore, junior, or senior will be suspended at the end of the second semester of the academic year if both his grade point average is below 1.75 for the year and his cumulative grade point average is below 2.00.
4. A sophomore, junior, or senior who has been on academic probation will be suspended at the end of the second semester of the academic year if both his grade point average is below 2.00 for the year and his cumulative grade point average is below 2.00.
5. If a student has a number of semesters with less than 2.00 grade point average in each, his record may be reviewed by the Dean of the School in which he is enrolled, with a view to possible suspension from the university, even though his cumulative record may be more than 2.00.

II. A student who has been suspended from this university may apply to the Director of Admissions for readmission. Generally, such a student will not be readmitted until he has been out of college for one semester if he was last registered as a freshman, or for two semesters if he was last registered as a sophomore, junior, or senior.

If the student believes that there are extenuating circumstances which might justify immediate readmission following a suspension, the student may appeal to the Dean of the School in which he was last enrolled.

Summer session is available for a student who wants to improve his record to support his appeal for readmission.

III. 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 college for at least one semester if he was last registered as a freshman, or for

two semesters if he was last registered as a sophomore, junior, or senior. Then he may make application for admission to the Director of Admissions, who will refer his request to the Dean of the School in which he wishes to enroll. A letter stating reasons for previous poor record and interim occupation must accompany application for admission. Each case is considered on its merits. (See the section on "Entrance with Advanced Standing.")

If the student believes there are extenuating circumstances which might justify immediate admission following a suspension, he should include a statement of them in his application for admission. This statement will then be considered by the Dean in arriving at a decision on the application.

Summer Session is available for a student who wants to improve his record to support his application for admission.

Change of Registration

A student is expected to complete the courses in which he is enrolled. However, during the first two weeks of classes in any semester he may, if circumstances warrant, drop or add a course provided he has permission from his adviser, and provided the "order of required studies" is not violated. No course may be added after the second week of classes. All changes must follow the procedure established by the registrar's office.

(Note to advisers: If a change of program during the first two weeks involves 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 signed by the adviser, the director, 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.)

Changes of program after the second week and through the ninth week of classes may be permitted by the student's adviser after consultation with the instructor if the reasons are compelling. (Note that courses may not be added after the second week of classes.) After the ninth week of a semester, decisions on such changes will be made by the dean of the school in which the student is enrolled, after advice by the student's adviser and instructor.

A course dropped after the ninth week will receive a "WP" if the student is doing passing work; otherwise a "WF" will be assigned. Repeated occurrence of "W" or "WP" will be cause for the review of the student's record by the committee of Academic Deans, and possible dismissal of the student from the university. Student initiated drops are not permitted during the last five weeks of the semester.

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.

Withdrawal from the University

A student who finds it necessary to leave the university at any time during the semester must receive permission from the Dean of the School in which he is enrolled, and must comply with the procedure established by the registrar's office. Grades will be assigned according to the schedule outlined in the section concerning Change of Registration, except that during the final five weeks of the semester an "Inc" may be assigned at the discretion of the instructor. Withdrawals during the final five weeks of the semester will be permitted only 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 case of withdrawal from the university, a student's grade point average will not be computed for that semester.

Reports

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

At the end of the first eight weeks of each semester, faculty members notify any freshman student whose work is failing or near failing at that time.

Transcripts

Transcripts of a student's record may be obtained 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.

Requests for information concerning activities and scholastic records of students or former students of Wisconsin State University — 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.

Attendance

The university policy is that students are expected to attend all classes, except within certain specified circumstances which justify absence.

Each teacher is required to record all absences and to report to the Associate Deans any student whose absence is deemed by the teacher to be excessive. Also, on request from the Deans the absence record of any student in any class is to be made available.

A student who has been reported excessively absent may be denied permission by a teacher to re-enter class until the student presents a statement from the Dean. In the event that the absence was excusable, the student has the right to a reasonable amount of help in making up work missed.

A student who is absent for illness or because of illness or death in the immediate family is excepted to notify the Deans' office, if possible, so that his teachers can in turn be told why he is out. In the event that he is scheduled for a field trip, athletic trip or other similar activity, the faculty member in charge of the activity will have listed his name in the weekly bulletin and the student need take no action except to confer with his teachers about work missed.

Absence deemed excessive by the Associate Deans or by the Dean of the school in which he is enrolled may be cause for the student's dismissal from a class or from the university by such official or officials. Such a 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.

Graduation

It is mandatory for all graduates registered as regular students to participate in the commencement exercises.

Student Conduct

When a student enters Wisconsin State University—Stevens Point, it is taken for granted by the university authorities that he has an earnest purpose and that his conduct will bear out this presumption. If, however, he should be guilty of unbecoming behavior or should neglect his academic duties, the university authorities will take such action as, in their opinion, the particular offense requires. Some of the offenses against good conduct which will be sufficient cause for disciplinary action, including dismissal from the university, are:

(1) **Alcoholic Beverages:** The possession or consumption of intoxicating or fermented malt beverages on the campus or in approved off-campus housing on the part of any student at the university is prohibited; violation of this regulation is sufficient cause for disciplinary action.

(2) **Gambling:** Gambling is sufficient cause for disciplinary action.

(3) **Falsification of information:** Any student who willfully falsifies information on university records is subject to disciplinary action.

(4) **Dishonesty:** Dishonesty of any sort is considered a serious offense which may result in disciplinary action.

(5) **Indebtedness:** The university may take disciplinary action in the case of any student who is indebted to the university and who fails to make a satisfactory settlement before the close of a semester.

(6) **Disorderly conduct:** Any student who has been judged by a court as guilty of disorderly conduct may be subject to disciplinary action.

(7) **Undesirable conduct:** Any student whose conduct reflects unfavorably upon the university may be subject to disciplinary action.

Penalties for the violation of the above rules may include disciplinary probation, suspension from the university for a definite period, dismissal from the university, or other action deemed appropriate to the circumstances.

Residence Requirements

At least 23 of the last 32 credits earned toward a degree must be earned in residence at this university. Nine of the 32 credits may be taken in other schools or by extension, but only upon prior approval of each course by the student's division director or dean.

To be eligible for a degree a student must have earned at least 30 of the total credits required for the degree in residence at this university.

Transfer of Credit

Credits from the State Universities are accepted by the University of Wisconsin on exactly the same basis as are credits from other collegiate institutions. For admission to the graduate school, graduates must offer seventy credits in strictly academic or non-professional subjects. A maximum of ten credits may be offered in student teaching. Graduates from the four-year curricula, as now outlined, will meet the requirements of the University of Wisconsin and may be admitted to the graduate school on the same terms as the graduates of the university. A minimum grade point average of 2.75 is required.

Other colleges follow essentially the same procedure in regard to credits as does the state university.

Extension and Saturday Classes

The university offers Tuesday evening extension classes in some fifteen to twenty cities in central and northeastern Wisconsin. A number of courses are offered on campus on Saturday mornings which provide residence credit. The majority of these courses are intended primarily for teachers who are working toward a degree or who wish to up-date academic areas and study late professional developments. Several graduate courses are now being offered on Tuesday evenings and Saturday mornings with a significant expansion of this program anticipated.

For a three-credit Saturday or extension course, classes meet once a week for seventeen weeks, and each meeting lasts two and one-half hours. Fees are \$13.00 per credit. This includes the text-book rental fee, and must be paid in full not later than the second meeting of the class. 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 and Saturday courses, and each student is responsible for staying within these limitations:

1. Students who are employed as teachers shall be granted no more than four credits total for extension, correspondence, and Saturday courses in any one semester.

2. Evening extension 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.

3. Up to 32 credits of extension work from this and other colleges or universities may be counted toward a degree. Some students may not be able to take all 32 of these credits because of the residence requirement. Not more than nine credits in the senior year may be earned in off-campus courses. (Note that Saturday morning classes are not counted as extension courses.)

4. Prior approval of each extension or Saturday course to be taken during the senior year must be obtained from the student's dean.

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

Summer Camp Sessions

Each summer the Wisconsin State Universities sponsor and direct summer sessions at Trees for Tomorrow camp at Eagle River and at Pigeon Lake.

Two three-week sessions are offered at Eagle River. Students may earn three credits in either session, or six credits by enrolling for both sessions. Laboratory, classroom, and field work in conservation are offered. Fees and board and room in the 1966 summer session are \$142.25 for each three-week session or \$272.00 for both sessions.

The Wisconsin State University Camp at Pigeon Lake is offering (in 1966) an NSF Summer Graduate Program in biology, a three-week workshop in art, and a three-week workshop in Outdoor Education and School Camping.

Credits from Eagle River and Pigeon Lake are acceptable in any of the State Universities, assuming that they fit the pattern of the curriculum the student is pursuing. In case courses do not exactly parallel courses offered on his campus, the student should consult his college adviser to determine whether the camp credits would count toward his degree.

These summer courses carry residence credit at Wisconsin State University—Stevens Point. For further information, write to the Director of Summer Sessions.

Summer Sessions

The University operates an eight-week summer session each year. This provides an opportunity for students to accelerate their program of study since eight credits, or half a semester's work, can be taken. A wide variety of courses is available from the freshman to the senior level. The regular faculty provides the instruction and the full facilities of the University, including residence halls and the University Center, are available. A summer school bulletin is available late in March and may be secured by writing to the Director of Summer Sessions.

Graduate Study

The graduate program is designed for elementary and secondary teachers. It is intended to strengthen the preparation of the teacher by providing work in an area of specialization, in liberal arts and professional education. Late afternoon and Saturday classes are available as a service to area teachers wishing to supplement their summer programs.

The University will implement an academic year graduate program in September, 1966. A number of graduate assistantships and scholarships are available to qualified students who participate in the program on a full-time basis. Additional information and a separate bulletin are available from the Dean of Graduate Program.

The member institutions of the Wisconsin State University system work cooperatively to facilitate credit transfer and to provide opportunities within reasonable access to all students of the State.

Administrative Organization

The university is organized for administrative purposes into three primary areas: (1) Academic Affairs, (2) Student Affairs, and (3) Business Affairs. Each of these areas is headed by a Vice President.

The Academic Affairs area is divided into four schools: (1) the School of Applied Arts and Science, (2) the School of Education, (3) the School of Fine Arts, and (4) the School of Letters and Science. The departments of the university are grouped, within each of these schools, as follows:

School of Applied Arts and Science: Business Education, Conservation, Home Economics, Physical Education.

School of Education: Education, Campus Laboratory School, Student Teaching.

School of Fine Arts: Art, Music, Speech and Drama.

School of Letters and Science: Biology, Business, Chemistry, Economics, English, Foreign Language, Geography, History, Mathematics, Political Science, Physics, Psychology, Philosophy, Sociology and Anthropology.

The following functions are also administered within the Academic Affairs area; Admissions, Records and Registration, Extended Services, Graduate Programs, Learning Resources (including library and audio-visual aids), Summer Session Programs, and the Arts and Lectures series.

The Student Affairs area administers programs in the following functional areas: Activities, Alumni, Counseling and Psychological Testing, Financial Aids, Fraternities, Health, Housing, International Students, Orientation, and Sororities.

Included in the functions administered in the Business Affairs area are: Accounting, Building and Grounds, Classified Personnel, Clerical Services, Purchasing, and Traffic and Plant Security.

There is also the office of the President which includes Assistant to the President, Director of Information Services, and Director of Institutional Research and Studies.

School of Applied Arts and Science

Paul A. Yambert, Dean

Wisconsin State University—Stevens Point, offers curricula in Applied Arts and Science leading to the Bachelor of Science degree. Each of these curricula is designed to further the student's progress toward the long range goals set forth elsewhere in this catalog. In addition, the objectives of the School of Applied Arts and Science include the following:

1. Preparation for non-professional fields requiring a college degree.
2. Preparation for technical and professional work in specialized fields, such as conservation, home economics, medical technology, business education, and physical education.
3. Pre-professional training.
4. Preparation for graduate study.

Students intending to major in business education, conservation, home economics, medical technology, physical education*, or nursing** will enroll as freshmen in the School of Applied Arts and Science.

Students majoring in any of the above fields who are also candidates for secondary school teaching, will enroll as freshmen in the School of Applied Arts and Science and apply before their junior year for admission to the Division of Secondary Education.

Each student in Applied Arts and Science is assigned to an adviser from the faculty of the department 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 year, his program must be approved by the chairman of his major department(s); and during his senior year, both his chairman and the Dean must approve his program.

After the first two weeks of a semester, any change in the student's program of studies is invalid unless approved in writing by the Dean.

A department may refuse to accept a student for major study if the student's general record is not satisfactory to that department. The department may refuse to approve continued registration as a major if his subsequent achievement falls below the standards set by the department.

* Currently only a major for women is offered in this field.

**This major must currently be completed following transfer to another institution.

Faculty cognizance of the importance of the fine and liberal arts in complementing the applied arts has strongly influenced the *curriculum for the Bachelor of Science Degree* in the School of Applied Arts and Science.

I. English and Speech:

A. English 1-2, 6 credits.

B. Speech 1, 2 credits.

II. American History, 6 credits.

III. One of the following:

A. Foreign Language, 8 credits.

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

B. Mathematics, 4 credits.

This requirement may be satisfied by two and one-half acceptable units of high school mathematics. An acceptable unit is one year of work with a grade of C or better, excluding "general mathematics".

IV. Social Studies, 9 credits.

Work in social studies must include courses in at least two of the following fields: cultural geography, economics, history (in addition to II above), political science, psychology, sociology, Conservation 111 (not open to Conservation majors or minors).

V. Natural Science, 10 credits in one of the following groups:

A. Biology 1, or Geography 1; and Chemistry 1 or Physics 1.

B. A continuous year course in one science:

1. Biology 3 and 4;

2. Chemistry 5-6; or 7-8;

3. Geography 2 and 3;

4. Physics 3-4; or 31-32.

Note: Students intending to major or minor in one of the sciences should consult the requirements for that major or minor before beginning a science course.

VI. Humanities, 9 credits, selected so as to include courses in at least two of the following groups:

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

B. Literature. (If Introduction to Literature or the survey course in American Literature or in English Literature is selected, the full year course must be completed to be credited on this requirement.). Speech 31, 32 (Dramatic Literature) may be used to meet this requirement.

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

VII. Physical Education, 4 credits. One credit to be taken during each year; exemptions may be granted by the Physical Education Department for certain reasons.

VIII. Major study and approved electives to total 120 credits in addition to required Physical Education (Total: 124). (As an elective, no less than 8 credits in a foreign language may be applied toward a degree.) A minimum of 40 credits must be selected from courses numbered 100 or above. No degree will be granted unless the candidate receives the approval of the faculty during his senior semester.

Restrictions

- A. The following courses are the only ones in the School of Education which may be applied toward a degree in the School of Applied Arts and Science:
Education 1, 113, 121, 131, 132, 135, 136, 183, 191.
- B. Students majoring in Food and Nutrition in the School of Applied Arts and Science are restricted to one of the following courses: Education 105Q, 111, or 112.

Suggested Curricula for specific majors in the School of Applied Arts and Science are as follows:

Business Education

		Freshman	
First Semester	Credits	Second Semester	Credits
English 1	3	English 2	3
Laboratory Science	5	Laboratory Science	5
Mathematics (as required)	4	Mathematics 10	4
Physical Education 1 or 3	1	Physical Education 2 or 4	1
Electives	3	Speech 1	2
	-----		-----
	16		15

Sophomore			
Humanities elective	3	Humanities elective	3
History 11	3	History 12	3
Economics 11	3	Economics 12	3
Business Education 1*	2	Business Education 2*	2
Business Education 3*	4	Business Education 4*	4
Physical Education 11	1	Physical Education 12	1
	-----		-----
	16		16

*Students may be exempt from this course upon satisfactory completion of a proficiency examination prior to the semester in which the course is offered.

Junior

Business 11	4	Business 12	4
Business Education 104	3	Business Education 106	6
Psychology 11	3	Education 111	3
Business Education 107	3	Education 105K	2
Business 180	3		15
	16		

Senior

Education 198	10	Economics 130	3
Education 112	3	Business 140	3
Education 105L	2	Business 120	3
	15	Humanities elective	3
		Electives	3
			15

Conservation

Freshman

First Semester	Credits	Second Semester	Credits
Biology 3	5	Biology 4	5
Conservation 1	1	Conservation 3	3
Conservation 2	3	English 2	3
English 1	3	Mathematics	4
Physical Education 1	1	Physical Education 2	1
Social Studies	3		16
	16		

Sophomore

Chemistry 5	5	Chemistry 6	5
Conservation 4	3	Conservation 5	4
Geography 3	5	History 12	3
History 11	3	Physical Education 12	1
Physical Education 11	1	Speech 1	2
	17	Electives	0-2
			15-17

In Secondary Education:

Junior

Education 111	3	Biology 165	3
Education 105	2	Economics 127	2
Humanities	3	Education 110	3
Social Studies	3	Education 198	5
Conservation 175	3	Electives	2-4
Electives	2-3		15-17
	16-17		

Senior

Conservation 181	2	Conservation 182	3
Education 198	5	Conservation 190	2
Humanities	3	Education 112	3
Electives	5-7	Humanities	3
	————	Social Studies	3
	15-17	Electives	3
			————
			17

In Applied Arts and Science:

Junior

First Semester

Forestry	Soils	Wildlife
Conservation 121 ..	Conservation 151 ..	Biology 45
3	3	4
Humanities	Humanities	Humanities
3	3	3
Social Studies	Social Studies	Social Studies
3	3	3
Electives	Electives	Electives
6-8	6-8	5-7
		————
15-17	15-17	15-17

Second Semester

Biology 165	Biology 165	Biology 165
3	3	3
Conservation 122 ..	Conservation 152 ..	Conservation 142 ..
3	3	3
Humanities	Humanities	Humanities
3	3	3
Social Studies	Social Studies	Social Studies
3	3	3
Electives	Electives	Electives
3-5	3-5	3-5
		————
15-17	15-17	15-17

Summer Session

The Summer Camp Program (Conservation 129S, 149S, and 159S) is required for all Conservation majors in the School of Applied Arts and Science.

Senior

First Semester

Conservation 123 ..	Conservation 153 ..	Conservation 141 ..
3	3	3
Conservation 181 ..	Conservation 181 ..	Conservation 143 ..
2	2	3
Humanities	Humanities	Humanities
3	3	3
Electives	Electives	Conservation 181 ..
7-8	7-8	2
		Electives
15-17	15-17	4-5
		————
		15-17

Second Semester

Conservation 124 ..	Conservation 182 ..	Conservation 144 ..
3	3	3
Conservation 182 ..	Conservation 184 ..	Conservation 182 ..
3	3	3
Electives	Electives	Electives
9-11	9-11	9-11
		————
15-17	15-17	15-17

Home Economics (School of Education)

Freshman

First Semester		Second Semester	
	Credits		Credits
Home Economics 4	3	Home Economics 1	3
Home Economics 5	2	Home Economics 2	3
English 1	3	English 2	3
Biology 1	5	Chemistry 1	5
Speech 1	2	Physical Education 4	1
Physical Education 3	1		—
	—		15
	16		

Sophomore

Home Economics 11	3	Home Economics 3	2
Home Economics 12	2	Home Economics 33	3
Chemistry 10	4	Psychology 11	3
Humanities	3	Humanities	3
History 11	3	History 12	3
Physical Education 11	1	Physical Education 12	1
	—		—
	16		15

Junior

Home Economics 123	3	Home Economics 164	4
Home Economics 145	3	Home Economics 185	2
Education 111	3	Home Economics 153	3
Education 105Q	2	Economics 11	3
Mathematics, or Foreign Language, or elective	4	Biology 24	4
	—		—
	15		16

Senior

Education 112	3	Home Economics 16	1
Education 191	3	Home Economics 171	3
Education 198	10 ½	Humanities	3
	—	*Sociology 11	3
	16 ½	Electives	5
			—
			15

*Recommended but not required.

A student with a Home Economics major is not required to have a minor; however, a minor in any field may be elected. If a minor is elected, Education 105 in the minor field should also be elected.

If a Chemistry minor is elected, Chemistry 5-6 or 7-8 should be substituted for Chemistry 1. If a Biology minor is elected, Biology 3-4 should be substituted for Biology 1.

Food and Nutrition major (suggested sequence of courses)

Freshman

First Semester	Credits	Second Semester	Credits
Home Economics 4	3	Home Economics 1	3
Home Economics 5	2	Home Economics 2	3
English 1	3	English 2	3
Chemistry 5 or 7	5	Chemistry 6 or 8	5
Speech 1	2	Physical Education 4	1
Physical Education 3	1		—
	—		15
	16		

Sophomore

Biology 1	5	Home Economics 11	3
History 11	3	Biology 24	4
Humanities	3	Psychology 11	3
*Sociology 11	3	History 12	3
Physical Education 11	1	Humanities	3
	—	Physical Education 12	1
	15		—
			17

*Recommended but not required.

Junior

First Semester

A	B	C	D
General	Dietetics	Food Serv Mgt	Exp Foods & Nutr
H. Ec 145 3	H. Ec 145 3	H. Ec 145 3	H. Ec 145 3
Humanities .. 3	H. Ec 177 2	H. Ec 177 2	Humanities .. 3
H. Ec 177, 181, or 183 2	H. Ec 183 2	H. Ec 183 2	H. Ec 181 or 183 2
Chem 10 4	Chem 10 4	Chem 10 4	Chem 10 4
Math, etc 4	Math, etc 4	Math, etc 4	Math, etc 4
—	—	—	—
16	15	15	16

Second Semester

H. Ec 148 3	H. Ec 148 3	H. Ec 148 3	H. Ec 148 3
H. Ec 153 3	H. Ec. 153 3	H. Ec 153 3	H. Ec 153 3
H. Ec 185 2	H. Ec 185 ... 2	H. Ec 185 2	H. Ec 185 2
Econ 11 3	Econ 11 3	Econ 11 3	Econ 11 3
Biol 110 4	Biol 110 4	Biol 110 4	Biol 110 4
—	—	—	—
15	15	15	15

**Senior
First Semester**

H. Ec 155 or 157 3	H. Ec 147 3 H. Ec 155 3	H. Ec 147 3 H. Ec 155 or 157 3	H. Ec 155 3 H. Ec 164 4
H. Ec 164 4	H. Ec 171 3	H. Ec 171 3	H. Ec 171 3
H. Ec 171 3	Bus 11 4	H. Ec 171 3	H. Ec elect .. 2
Electives 5	Educ 111, 112, or 105Q 2-3	Bus 11 4 Bus 170 3	Ed 111, 112, 105Q or Econ 130 .. 2-3
15	15-16	16	14-15

Second Semester

H. Ec 146 or 147 3	H. Ec 157 3 H. Ec 164 4	H. Ec 149 3 H. Ec 164 4	H. Ec 157 3 H. Ec 146 3
Electives 12	Humanities .. 3	Bus 111 3	Elect 9-10
	Bus 170 or Psych 17 .. 3	Bus 120, 140, Psych 17 or Econ 122 .. 3	
	Elect 2-3	Humanities .. 3	
15	15-16	16	15-16

Note: Only one course in Education may be included in a Food and Nutrition major in the School of Applied Arts and Science.

Fullfilling the degree requirements for curriculum B, C, or D, and completing an American Dietetics Association approved internship will satisfy the requirements for membership in the American Dietetics Association.

School of Education

Burdette W. Eagon, Dean

The three major divisions of the School are the Education Department, John M. Bernd, Chairman; the Office of Student Teaching, John J. Gach, director; and the Campus Laboratory School, Terrence J. Snowden, director.

Wisconsin State University—Stevens Point, offers curricula in the School of Education leading to the bachelor of science degree. The curricula include:

- I. Elementary Education
 - A. Kindergarten — Primary
 - B. Primary
 - C. Intermediate and Upper-elementary

II. Secondary Education

All freshmen who plan to enter professional education fill out a tentative "declaration of intention" at the time of enrollment. Students who were graduated in the upper half of their class in high school may be granted tentative admission to one of the elementary curricula.

Students should file *formal application for admission* to any education curricula during the second half of the sophomore year. The deadline date for application for the fall semester 1966-'67 is April 1, 1966. The deadline date for application for the winter semester 1966-'67 is December 1, 1966. The deadline date for application for the fall semester of 1967-'68 is April 1, 1967. Students may take education courses only after they have been formally admitted to the School of Education.

Requirements for Admission

- A. A personal-social report from the Office of Student Affairs.
- B. Recommendations from major and minor departments.
- C. An overall grade point average of 2.25.
- D. A satisfactory health report from the University Health Service.
- E. A satisfactory hearing and speech proficiency report (to be taken at time of application).
- F. Such examinations as may be prescribed.
- G. Completion of official admission forms.

Procedure for Admission

A. Students seeking admission to a professional education curriculum must apply in the office of the Dean of the School of Education.

B. Students who have satisfactorily completed the requirements will be notified of admission.

C. Students who are denied admission to the teacher education program for other than academic reasons may file a special petition with the Teacher Education Review Committee for further consideration.

D. Students who are admitted report to the office of the chairman of the Education Department to be assigned to an adviser.

Transfer Students

Students who have transferred to this university from another institution may apply for admission to the office of the Dean of the School of Education after they have completed one or more semesters of work at this university.

1. If the student enters with a grade point average of 3.00 or more, a single semester of work is generally considered an ample probationary period.

2. Students who enter with less than a 3.00 average may be required to complete two semesters of work.

3. Transfers must file transcripts with the Director of Admissions well in advance of enrollment. They should request an evaluation of their credits from the Dean of the School of Education. A planning sheet, showing requirements to be met, will then be prepared. Students who have a non-teaching degree but who wish teacher certification should follow the same procedure.

Bachelor of Science Degree

(School of Education)

I. English and Speech:

A. English 1-2, 6 credits.

B. Speech 1, 2 credits.

II. American History, 6 credits.

III. One of the following:

A. Foreign Language, 8 credits.

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

B. Mathematics, 4 credits.

This requirement may be satisfied by two and one-half acceptable units of high school mathematics. An acceptable unit is one year of work with a grade of C or better, excluding "general mathematics."

IV. Social Studies 9 credits.

Work in the social studies must include courses in at least two of the following fields: cultural geography, economics, history (in addition to II, above), political science, psychology (Psychology 11 is a prerequisite for Education 112), sociology, Conservation 111 (not open to Conservation majors or minors).

- V. Natural Science, 10 credits in one of the following groups:
- A. Biology 1, or Geography 1; and Chemistry 1, or Physics 1.
 - B. A continuous year course in one science:
 - 1. Biology 3 and 4;
 - 2. Chemistry 5-6, or 7-8;
 - 3. Geography 2 and 3;
 - 4. Physics 3-4; or 31-32.

Note: Students intending to major or minor in one of the sciences should consult the requirements for that major or minor before beginning a science course.

VI. Humanities, 9 credits, selected so as to include courses in at least two of the following groups:

- A. History and appreciation of art, music, theater; history of music, theater.
- B. Literature. (If Introduction to Literature or the survey course in American Literature or in English Literature is selected, the full year course must be completed to be credited on this requirement.) Speech 31, 32 (Dramatic Literature) may be used to meet this requirement.
- C. Philosophy (logic and philosophy of science excluded), colloquium.

VII. Physical Education, 4 credits. One credit to be taken during each year; exemptions may be granted by the Physical Education Department for certain reasons.

- VIII. A. Division requirements, including majors and minors where specified.
- B. Approved electives to total at least 120 credits, in addition to required physical education.
 - C. A minimum of 40 credits must be in courses numbered 100 or above.

Elementary Education

In addition to such required courses as shown for the Bachelor of Science degree in the School of Education, certain other courses are required in each curriculum. These are indicated in the study programs shown below.

Kindergarten-Primary and Primary Curriculum

The Kindergarten-Primary curriculum is planned to prepare teachers for kindergarten and for grades one through three. The Primary curriculum prepares teachers for grades one through three. Students not interested in teaching kindergarten may omit student teaching in the kindergarten and techniques in kindergarten education, and they will then be qualified for certification to teach the first three grades.

Suggested Order of Required Courses:

Freshman	Credits	Sophomore	Credits
Art 1	3	Biology 40	3
Art 2	3	English 11 or 13	3
Biology 1	5	English 12 or 14	3
English 1	3	English 21	3
English 2	3	Geography 1	5
Music 1†	3	History 11	3
Physical Education 1-2	1	History 12	3
Physical Education 3-4	1	Physical Education 11-12	1
Physics 1	5	Physical Education 31	2
Speech 1	2-3	Psychology 11	3
Electives*		Psychology 13	3
		Electives**	

Junior and Senior

	Credits
Education 101	2
Education 102K	2
Education 102L	2
Education 102M	2
Education 198	13
Geography 10 or 100 level (Regional)	—
History 151 or 166	—
Mathematics 115	4
Music 103	3
Philosophy 15 or 105	3
Electives**	

* If a foreign language is chosen as an elective, it is suggested that it be taken during the freshman year.

**Sufficient electives must be chosen to bring the total number of credits earned to 120, plus Physical Education 1 or 3, 2 or 4, 11 making a total of 123. Credits earned in music organizations such as band and chorus may be included in the total of 120, except when taken in the freshman year. Credit earned in applied music may be counted if earned in the junior or senior year.

† Music 23-24 may be substituted for Music 1 by students earning a minor in Music.

Intermediate and Upper-Elementary Curriculum

The Intermediate and Upper-Elementary curriculum prepares students for teaching positions in grades four through eight in the elementary schools. It also gives the foundation work necessary for later graduate study in the field of Elementary Supervision and Administration. It is recommended that students in this curriculum use some of their elective credits as an area of concentration, or a minor in some field of study.

Suggested order of Required Courses:

Freshman		Sophomore	
	Credits		Credits
Art 1	3	Biology 40	3
Art 2	3	English 13	3
Biology 1	5	English 14	3
English 1	3	English 23	3
English 2	3	Geography 1	5
Music 1	3	History 11	3
Physical Education 1 or 3	1	History 12	3
Physical Education 2 or 4	1	Physical Education 11	1
Physics 1	5	Physical Education 12	1
Political Science 1	3	Physical Education 32	2
Speech 1	2	Psychology 11	3
Electives*		Psychology 13	3

Junior and Senior

	Credits
Conservation 111	3
Education 103K (jr. yr.)	4
Education 103L (jr. yr.)	4
Education 121	3
Education 131	3
Education 198	—
Geography 11	2
Geography "100" level	—
Music 103	3
Electives**	

* If a foreign language is chosen as an elective, it is suggested that it be taken during the Freshman year. In such cases, Speech 1 or Music 1 may be taken later.

**Sufficient electives must be chosen to bring the total number of credits earned to 120, plus Physical Education 1 or 3, 2 or 4, 11, making a total of 123. Credits earned in music organizations such as band and chorus may be included in the total of 120, except when taken in the freshman year. Credit earned in applied music may be counted if earned in the junior or senior year.

Four-Year Elementary Education Curriculum 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. Students transferring with less than 60 acceptable credits will be placed on probation for one year and must earn a grade point average of 2.25 or higher before filing an application for formal admission. Students may not take education courses until they have been formally admitted into the School of Education.

Required courses:

Chemistry 1.

Physics 1.

Education 198 (5 credits).

Speech.

Foreign Language or Mathematics 115 (may be omitted if two and one-half acceptable units of high school mathematics or two units of foreign language are presented).

Humanities, 6 credits, selected so as to include courses in at least two of the following groups:

A. Art 191, 192, 193; Music 1, 140, 141; Speech 5.

B. Literature (in courses numbered 100 or above).

C. Philosophy 15, 105; colloquium.

Electives to total 60 credits beyond the county teachers college course. (A total of 64 credits is required of those who began their county teachers college work before 1954.)

Since the student must earn 40 credits in courses numbered 100 or above, most electives should be in that category.

Secondary Education

The successful completion of the general education and professional course work required of education students, and the recommendation of the major and minor departments 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 curriculum prepares students for teaching positions in grades seven through twelve in the junior and/or senior high schools. Three plans or options may be selected:

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

Majors which may be chosen include art, biology, business education, chemistry, conservation, economics, English, French, geography, German, history, home economics, mathematics, music, physics, political science, psychology, sociology, and speech.

Minors are available in each of the major fields (except business education), and in physical education.

Plan II. Two college university approved majors of at least 34 credits. These would be selected from those listed under Plan I.

Plan III. One college or university approved broad-field or comprehensive major of at least 54 credits. These are offered in art, general science, home economics, music, and social science. (See the appropriate statements in the section "Details of Courses.")

Note: Students who major or minor in any of the social sciences (economics, geography, history, political science, and sociology) are required by statute to take Economics 11 or Economics 127.

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 Conservation 111. Students must take Psychology 11 as a prerequisite for Education 112.

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.

A minimum of twenty credits of professional education courses is required. The sequence of courses follows:

Junior year:

Principles of Education	(Education 111)	3 credits
Techniques of Teaching	(Education 105 or 106)	2 credits

Senior year:

Student Teaching	(Education 198)	10 credits
Educational Psychology	(Education 112)	3 credits
Techniques of Teaching	(Education 105 or 106)	2 credits

Students are required to take the Techniques in Secondary Education related to their major and minor fields.

Additional professional education courses that may be taken include:

Audio-Visual Education	(Education 131)	3 credits
Tests and Measurements	(Education 121)	3 credits
Safety Education	(Education 135)	3 credits
Driver Education	(Education 136)	3 credits

Organization and Administration of Outdoor Education (Education 183) and others.

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 198) are required for graduation and recommendation for teacher certification. This requirement — which involves an initial and a terminal student teaching experience — may be taken during two separate semesters or, in the case of the “block” program, concentrated in a single semester. The organization of the over-all program is the responsibility of the Director of Student Teaching, who works closely with the student teachers, members of the university staff, and the administrators and teachers in the cooperating schools.

In order to provide adequate facilities and competent supervision for the student teachers, a cooperative working relationship is constantly being developed with a number of elementary and secondary schools.

Admission to Student Teaching

When the prospective student teacher has completed a major portion of the required course work in general education, and in the major and minor fields, and some professional education courses, he may petition to enroll for student teaching.

Requirements:

1. Admission to the School of Education.
2. An overall grade point average of no less than 2.25.
3. Recommendation from the student's major and minor departments.
4. Completion of forms from the office of Director of Student Teaching.

Upon being accepted, the student will be given a specific assignment by the Director of Student Teaching.

Plan A

1. The student is enrolled in both professional education and other courses on the campus.
- 2*. The student is assigned to student teaching at a school in or near Stevens Point.

Plan B

1. The student is enrolled in both professional education and other courses on the campus during either morning or afternoon periods.

2*. During the other half of the day, he is assigned to student teaching at a school in a nearby community.

*The individual student teacher has the responsibility of arranging for the necessary transportation. In many cases, several students travel together to reduce expenses.

Plan C

1. The student is enrolled in the "professional semester" or "block" program of student teaching. He will have completed Education 111 and one other course in professional education.

2. During the first or second semester of the senior year, the student will take 15-16 hours of course work in professional education courses.

- A. The first segment of the semester is devoted to Educational Psychology (Education 112), and a course in the techniques of teaching. At the end of this period, an evaluation of the student's progress is made and a grade is given for each course.
- B. The remainder of the semester 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 supervisors will check the progress of the student teacher, and one or more special seminars will be held on the campus on Saturday mornings to discuss the student teaching experience. At the end of this period the cooperating teacher 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.

Note: The foregoing is a description of the pattern for students who plan on teaching in high school. However, the procedure, with certain modifications, is similar for those who plan to teach in the elementary schools.

Cooperating Schools

The following school systems provided supervised student teaching during the 1965-66 school year:

Adams-Friendship, Almond, Amherst, Appleton, Antigo, Auburndale, Baraboo, Berlin, Bonduel, Bowler, Clintonville, Colby, East Troy, Edgar, Fish Creek, Fond du Lac, Green Bay, Iola-Scandinavia; Kohler, Madison, Marathon, Marinette, Marshfield, Medford, Menasha, Merrill, Minocqua, Monona Grove, Mosinee, Neillsville, Nekoosa, New London, Omro, Phillips, Pittsville, Plainfield, Portage, Port Edwards, Preble, Reedsville, Rosholt, Schofield-Rothschild, Seymour, Shawano, Spencer, Stevens Point, Stratford, Waupaca, Waupun, Wausau, Wautoma, Weyauwega, Westfield, Wisconsin Dells, Wisconsin Rapids, and Wittenburg.

Certification for Teaching

Seniors who have completed all of the requirements for graduation and teacher certification in Wisconsin must take the following steps:

1. Obtain the official certification application form from the registrar's office.
2. Complete the required section of this blank and return it to the registrar's office with the \$2.00 fee required by the Department of Public Instruction.

The registrar will then forward the necessary credentials to the State Department of Public Instruction and the initial three-year license will be sent directly to the applicant.

Wisconsin State University—Stevens Point is a member of the North Central Association of Secondary Schools and Colleges. The teacher preparation program has been approved by the State Department of Public Instruction and the National Council for the Accreditation of Teacher Education.

In general, our teacher education program meets the requirements of other states. However, if a student is interested in teaching in another state, it is recommended that he become acquainted with any special requirements of that state early in the period of his professional preparation.

Graduates of the other schools in this university, and from other accredited colleges, who wish to qualify for state certification must meet the admission requirements for the School of Education. If the student is accepted, a plan for fulfilling the requirements for teacher preparation will be made. Upon completion of the approved program, the Dean of the School of Education will send a letter to the registrar's office to authorize the issuing of an application for certification.

School of Fine Arts

Robert B. Cantrick, Dean

The School of Fine Arts was founded in 1963 as the first of its kind in the Wisconsin State University system. Stevens Point thereby recognized the basic unity underlying all the arts and the importance of the arts in education. As a result, the potential impact of the arts upon central Wisconsin is greatly enhanced.

Scope

The School offers beginning and advanced courses in the visual arts, dance, drama, music, public address, and speech pathology and audiology. The School also offers plays, concerts, art exhibitions, operas, and other public events. In both types of activity — courses and public events — students have opportunities to earn credit. In public events students have opportunities to participate without credit or to attend as auditors and spectators. Thus, the arts programs cut across both the curriculum and co-curriculum contributing broadly to this University's concept of a total education.

Purposes

The School welcomes students whose aims are: (1) a professional career in one of the fields listed above; (2) a teaching career in one of these fields; (3) preparation for graduate or other specialized study; (4) an enlarged cultural orientation as an educated human being. Entering students who believe their interests will lead them in one of these directions should enroll in the School of Fine Arts. The School also performs a variety of public service functions. (See Services.)

Major Fields

A student may major or minor in art, music, or speech. Within the music and speech majors, a student may choose a concentration in which to specialize. Within the art and music majors, a student may also choose a medium in which to specialize. (See *Department listing*.)

A student may apply to any department chairman for acceptance in any major field of study at any time during his freshman and sophomore years, but no later than his junior year. An early application is advisable in major fields which require more than two years to complete, such as music. However, many students make one or more changes of major during their college careers, because their interests change — a perfectly normal development.

A student who does not show satisfactory progress in his major field may be asked by the department to change his major to another field. Some students attend college for more than eight semesters, in order to complete the major of their choice. As a help in completing within four years those curricula which are rather complex, some departments provide the student with a semester-by-semester outline of courses.

Degrees

A student in the School of Fine Arts may choose one of three degree programs, depending upon his objective: Bachelor of Arts, Bachelor of Science, or Bachelor of Music.

The general requirements for the B.A. and B.S. degrees are identical with those in the School of Letters and Science. The general requirements for the B. Mus. degree are similar but not identical (see *Music* section.)

Students who intend to become secondary school teachers may begin work toward the B.S. or B. Mus. degrees in the School of Fine Arts, then apply in the second half of the sophomore year for admission to the School of Education, where they will complete their degrees.

Academic Advisers

Each entering student is assigned to an academic adviser from the faculty of the department in which he intends to major. The adviser assists the student in academic matters, such as selecting courses, solving schedule problems, interpreting catalogue requirements, making vocational plans, improving study habits, etc. The student's program of studies must be approved during the freshman and sophomore years by the advisers, during the junior year by the department chairman and adviser, during the senior year by the Dean of Fine Arts, the department chairman, and the adviser.

Physical Facilities

A new fine arts building, estimated to cost more than two million dollars, is expected to be completed by the fall of 1968. Its facilities will include an experimental theater, a recital hall, an art gallery, a fine arts materials center, more than 50 art and music teaching studios, about 40 individual music practice rooms, specially equipped laboratories for listening-observation activities, and rehearsal rooms for drama, dance, opera, choral and instrumental music.

Services

The programs of the School of Fine Arts have a strong public service aspect. Performances and exhibits by students and faculty enrich the cultural life of the campus, community, and region.



Summer, graduate, and extension courses offer in-service training to elementary and secondary school teachers, as well as opportunities for adult education. The summer music camp, the high school dramatic and forensic meets, the private lessons of the preparatory music division, and the summer dance workshop are all services to pre-college students (and indirectly to their teachers also). The art exhibition series, the summer theater, the exchange of recitals with music faculty of other colleges, the creative arts forums all foster the professional growth and activities of artists and teachers in the state and region. Contributions of facilities and personnel to the local art league and symphony orchestra encourage the growth of the amateur arts in the community.

School of Letters and Science

Warren G. Jenkins, Dean

Wisconsin State University—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 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 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 background. It is the purpose of the Letters and Science curricula to provide this education.

Students admitted to the university who have not been accepted for professional training as teachers may enroll in Letters and Science and follow the program for a Bachelor of Arts or a Bachelor of Science degree. This includes students who plan a four-year general course and those preparing for professional, and graduate studies, except (1) students in conservation, home economics, medical technology, and pre-nursing, who will enroll in the School of Applied Arts and Science as freshmen, and (2) students intending to major in art, music, or speech, who will enroll in the School of Fine Arts.

Advisers

Each student in Letters and Science is assigned to a member of the faculty who will act as his adviser until he is accepted by a department for major study. The adviser will assist him in adjusting to his academic work and in the improvement of his abilities.

In order that a student may come to understand better the interweaving relationships between various fields of knowledge it is required that he plan, with his adviser, programs by means of which such relationships may be effectively realized.

Not later than the beginning of his junior year each student remaining in Letters and Science must have selected the area of his major study. At that time and thereafter, the chairman of the student's major department(s) will assist the student and sign his program of studies. During the senior year the program of studies must also be approved by the Dean.

After the first two weeks of a semester, any change in the student's program of studies is invalid unless approved in writing by the Dean of Letters and Science.

Degrees

The Curriculum for the Bachelor of Arts General Course

- I. English Language and Literature, 12 credits as follows:
 - A. English 1-2.
 - B. English 11-12 or English 13-14.
- II. Foreign Language, 24 credits (including 4 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 8 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 4 college credits for each high school unit up to a total of 6 units or 24 credits. However, a minimum of 8 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 100 or above.
- IV. History, 12 credits, including 6 credits of American History.
- V. Social Studies, 6 credits, selected from the following: Conservation 111, cultural geography; economics; philosophy (logic excluded); political science; psychology; sociology.
- VI. Natural Science, Mathematics, Logic; one year of laboratory science and one year of mathematics or logic.
- VII. Physical Education, 4 credits. One credit to be taken during each year; exemptions may be granted by the Physical Education Department for certain reasons.
- 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 100 or above.

It should be noted that no degree will be granted unless the candidate receives the approval of the faculty during his senior semester.

Required Studies, Bachelor of Arts General Course

Each student is expected to complete in the first two years the required courses listed in the curriculum above (except in number VIII), although some exceptions may be granted by the student's adviser and the dean. In any case the following shall 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, 6 credits.

3. Natural science, mathematics, logic, 10 credits.
4. History, 6 credits.
5. By the end of the sophomore year the student must select a major study and plan his course with his major adviser and dean. It is recommended that he also select a minor study by that time.

Curriculum, Bachelor of Science General Course

I. English and Speech:

A. English 1-2, 6 credits.

B. Speech 1, 2 credits.

II. American History, 6 credits.

III. Foreign Language, 8 credits.

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

IV. Mathematics, 4 credits.

This requirement may be satisfied by two and one-half acceptable units of high school mathematics. An acceptable unit is one year of work with a grade of C or better, excluding "general mathematics."

V. Social Studies, 9 credits.

Work in social studies must include courses in at least two of the following fields: cultural geography, economics, history (in addition to II above), political science, psychology, sociology, Conservation 111.

VI. Natural Science, 10 credits in one of the following groups:

A. Biology 1, or Geography 1; and Chemistry 1, or Physics 1.

B. A continuous year course in one science:

1. Biology 3 and 4;

2. Chemistry 5-6; or 7-8;

3. Geography 2 and 3;

4. Physics 3-4; or 31-32.

Note: Students intending to major or minor in one of the sciences should consult the requirements for that major or minor before beginning a science course.

VII. Humanities, 9 credits, selected so as to include courses in at least two of the following groups:

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

B. Literature. (If Introduction to Literature or the survey course in American Literature or in English Literature is selected, the full year course must be completed to be credited on this requirement.) Speech 31, 32 (Dramatic Literature) may be used to meet this requirement.

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

VIII. Physical Education, 4 credits, one credit to be taken during each year; exemptions may be granted by the Physical Education Department for certain reasons.

IX. Major study and approved electives to total 120 credits in addition to the required physical education (Total: 124). (As an elective, no less than 8 credits in a foreign language may be applied toward a degree.) A minimum of 40 credits must be selected from courses numbered 100 or above.

It should be noted that no degree will be granted unless the candidate receives the approval of the faculty during his senior semester.

Required Studies, Bachelor of Science General Course

Each student is expected to complete in the first two years most of the required courses listed in the curriculum above, except number IX. In any case, unless exception is granted by the Dean of Letters and Science, the following shall be completed:

1. During the freshman year,
 - a) English 1-2, 6 credits.
 - b) Laboratory science (biology, chemistry, geography, or physics), 10 credits.
2. During the sophomore year,
 - a) History 11 and 12, 6 credits.
3. At some time during the freshman and sophomore years,
 - a) Speech 1, 2 credits.
 - b) Social studies or humanities, 3 credits.
 - c) Mathematics or foreign language, any deficiency under items III and IV in the Bachelor of Science curriculum.

A Typical Freshman Course

First Semester	Credits	Second Semester	Credits
English 1	3	English 2	3
Science* (Laboratory)	5	Science* (Laboratory)	5
Physical Education 1 or 3	1	Physical Education 2 or 4	1
Electives**	5-7	Electives**	5-7
	14-16		14-16

*To be selected from the science courses listed under Freshman Studies.

**such electives should, when possible, satisfy general requirements such as mathematics or foreign language, or professional prerequisites.

Freshman Studies, Letters and Science

1. English.

First year students must register for English 1 and 2.
Three credits each.

2. Mathematics.

Mathematics 1 or 2; 5-6, or 7-8, or 9. Four credits each.

3. Science.

See Section VI under Bachelor of Science (above).

Chemistry 10 (four credits) is open to freshmen who have the prerequisite.

4. Foreign Language. (No less than eight credits in a language may be applied toward a degree.)

French 1-2. Four credits each.

German 1-2. Four credits each.

Russian 1-2. Four credits each.

Spanish 1-2. Four credits each.

Students with prior training in languages will be assigned to advanced classes as determined by their skills.

5. Social Studies.

Geography 10. Three credits. Not open to students who register for Geography 1, 2, or 3.

History 1, 2, 3, 4. Three credits each.

Political Science 1, 2. Three credits each.

Sociology 1. Three credits.

Sociology 2K, 2L. Two credits each.

6. Other courses.

Art 2. Two credits.

Art 3, 4. Three credits each.

Conservation 1. One credit.

Journalism 1, 2. Three credits each.

Music 4, 5, 7. One credit each.

Music 2, 3. Two credits each.

Music 1, 9-10. Three credits each.

Physical Education 1-2, or 3-4. One credit each.

Speech 5. Three credits.

Speech 1, 3, 10. Two credits each.

Speech 7. One credit.

For other courses in accounting, business education, conservation, education, engineering graphics, home economics, music, physical education, and library science, see the "Twenty credit rule" below. (For other courses open to freshmen consult the course descriptions in the section Details of Courses.)

7. Students with an excellent academic record may, with the permission of the Dean, elect one course with a prerequisite of sophomore standing.

Major Study

Before the beginning of the junior year each student in Letters and Science must select a major study, with the written approval of the chairman of that major department, and must have an approved plan of major study. A department may refuse to accept a student for major study in that department if the student's general academic record is not satisfactory to that department.

The department may refuse to approve his continued registration as a major if his subsequent achievement falls below the standard set by the department.

Acceptable majors and minors 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 "Details of Courses"), geography, German, history, mathematics, music, philosophy, physics, political science, psychology, social science (Paragraph A under Social Science in section "Details of Courses"), and sociology.

Minor Study

The Letters and Science degrees do not require minor studies, but any minor listed in the catalog may be completed. However, only 20 credits in minors in departments not listed for majors above may be applied to complete the required 120 credits. (See the "Twenty Credit Rule," below.)

Restrictions

Courses from the following departments may not be applied toward degrees in the School of Letters and Science, with certain exceptions: accounting, business education, conservation, education, engineering graphics, home economics, music, physical education, library science.

Exceptions:

- 1) *Twenty credit rule:* Students may apply courses from the above departments toward degrees in the School of Letters and Science, but not more than a total of 20 credits, and not more than 6 credits in any one semester.
- 2) Any course from the above departments may be applied toward a degree in L&S if it is listed in the "General Requirements" for the degree.
- 3) Any course from the above departments may be applied toward a degree in L&S if the course is cross listed in a department other than one listed above.
- 4) The following courses in education are the only ones which may be applied under the twenty-credit rule: Education 1, 113, 121, 131, 132, 135, 136.
- 5) The following courses in Business are not subject to the twenty-credit restriction: Business 61, 130, 140, 150, 170, 180.

Classification

A student in Letters and Science must have 25 credits and 50 grade points before he may register as a sophomore; 58 credits and 116 grade points and be accepted by a major department before he may register as a junior; and 88 credits and 176 grade points before he may register as a senior. Required physical education credits will not be included in these classifications. A point-credit ratio of 2.00 is necessary for graduation.

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 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. He will plan his studies within the curriculum of either the Bachelor of Arts or the Bachelor of Science degree and will select the specific courses recommended for his profession.

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 must 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.

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, inorganic chemistry, and three semester hours of organic chemistry. Sufficient additional credits to total at least sixty hours must be submitted as preparation for the customary three years in leading schools of dentistry.

Education

A student who is considering education and who may transfer to the School of Education in this university should follow the general requirements for the Bachelor of Science degree. He should include the specific requirements of that school 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 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, in research, often necessitate foreign language ability. From one to four years' preparation for these professions (depending upon the specialization) may be completed at Stevens Point. Advisers direct the student's selection of studies, which should lead toward the Bachelor of Science degree.

Journalism

The two years of pre-journalism studies follow the general requirements of the Letters and Science degrees with special attention given to courses in English, social studies, and foreign language.

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

It is recommended that students planning medical studies should secure high school training in mathematics and Latin. In the university they should follow a curriculum leading to one of the degrees.

Premedical requirements include literature, history, chemistry, zoology, physics, mathematics, social science, and two years of foreign language. These studies usually require a minimum of three years. Because of slightly varying requirements of different medical schools the student must plan his courses carefully in consultation with his adviser.

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.

Mortuary Science

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

Social Administration

Students interested in this field should register in Letters and Science and enroll in a major in either economics, history, political science, sociology, or social science.

Social Work and Anthropology

Courses in social work and anthropology are offered within the sociology curriculum. Students interested in either of these fields should register in Letters and Science and enroll in a sociology major.

Other Pre-professional Studies

Students planning to enter other fields will be assigned to advisers who will guide them in their studies.



At the WSU-Stevens Point Speech and Audiology Clinic Gerald Aylesworth (left) and Dr. Donald Johnson demonstrate a "delay feedback" machine which mechanically reproduces stuttering so that students might study this speech disorder.

The Speech and Audiology clinic program, begun four years ago, has grown to a ten-room complex in WSU's Main Building and now has a faculty of three instructors. During 1965-66, some 50 undergraduates were working toward degrees in Speech Pathology and Audiology.

The clinic serves as a training lab for these students as well as performing a vital service to residents of Central Wisconsin. Among the disorders treated are articulation, cerebral palsy, stuttering, cleft palate, laryngectomy, and speech defects resulting from mental retardation.

Placement Services

The university provides a full placement service for graduates and alumni of the four schools: (1) Applied Arts and Science, (2) Education, (3) Fine Arts, and (4) Letters and Science.

Near the close of the junior year and early in the first semester of the senior year, all students who register for graduation receive the forms needed to obtain information for the preparation of a placement file and confidential credentials. Personal information, names of individuals from whom recommendations are requested, evaluations of experiences related to the student's preparation, an appraisal of extra-curricular activities, listing of honors and special recognition for achievements, and other evaluative materials are obtained and included in the candidate's file. Photographs are not attached to placement credentials, nor is there reference to race, color, or creed included in the student's placement file or credentials. The placement office does not furnish employing officials with any discriminatory information relating to any candidate. Copies of credentials are prepared and will be sent only to authorized employing officials. Placement credentials are the property of the university and are to be returned to the placement office when no longer needed by employing officials. A copy may be retained by employing officials while the candidate is in the employ of the school, company, or institution.

Credentials are made available to employing officials who visit the placement office to interview candidates. These are reviewed and studied prior to the interview to acquaint the interviewer with the candidate. Students with strong records and complete credentials are frequently employed following the interview, since the essential evaluations and recommendations have been obtained and compiled previously.

Placement services are available to all alumni of the university whose experience record merits the continued support of the university. Arrangements need to be made in advance by the candidate to obtain the forms needed to provide the information required to bring the credentials up to date. This includes the reporting of graduate work and advanced degrees including scholarships, grants, or fellowships received, and the names and addresses of individuals to whom evaluation forms are to be sent in assessing the candidate's achievements and experiences. Notice of promotional opportunities will be provided candidates at the time the credentials are ready for review and distribution. The advantage of maintaining an up-to-date placement file should be fully recognized by all alumni who are interested in new employment opportunities and promotions. There is no charge for the placement services of the university.

Departments of Instruction

Course Numbers

Courses numbered 1-99 are primarily for freshmen and sophomores.

Courses numbered 1-10 are generally open to freshmen and other students who have the prerequisites stated in the course descriptions. If no prerequisite is stated, the course is open without restriction to all students.

Courses numbered 11-99 require sophomore standing, or some other prerequisite. They are open to all students who have the prerequisites stated in the course descriptions.

Courses numbered 100-199 are open only to juniors and seniors who have the prerequisites stated in the course descriptions. In cases of extreme urgency, the Deans of the Schools may give permission for sophomores to register for these courses. This permission must be given in writing before the student registers for the course(s).

Any student who registers for courses contrary to the above regulations will not receive credit for such courses.

To receive a degree, the student must earn at least 40 credits in courses numbered 100-199.

American Civilization

Mr. Mickelson, adviser.

A. A major in American Civilization consists of 45 credits divided among four major areas: American History; American Literature; American Fine Arts, Speech and Philosophy; and American Social Sciences. It is intended to provide a view of American Civilization as a recognizable entity — enabling the student to understand better his own culture and its relation to other cultures. A major in American Civilization can be earned in either the School of Education or the School of Letters and Science.

1. All students majoring in American Civilization are required to take 26 credits of basic studies in American Life. These required courses are the following: English 13-14 (American Literature); Geography 26 (North America); History 11-12 (United States History); Music 2 (American Music); Political Science 1 (American National Government); Sociology 100 (The American Community); and American Civilization 100 (American Life).

2. All students majoring in American Civilization are also required to take nine credits of courses numbered 100 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, etc.

3. To complete the required 45 credits for a major, ten additional credits of electives in courses numbered 100 or above should be selected from an approved list of courses in the four areas of American Civilization.

4. Students in the Secondary Education curriculum majoring in American Civilization 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 School of Letters and Science who are earning majors and minors in participating, or non-participating, fields can earn an inter-departmental major or minor in American Civilization.

B. A minor in American Civilization consists of the 26 credits of basic studies required for the major in American Civilization. (See paragraph 1, under A, above.) (See also paragraph 5, under A, above.)

American Civilization 100. American Life.

Three Credits.

The integrating course in American Civilization, including philosophy, methods, and bibliography. The semester is organized around themes, persons, and periods in American Life, such as individualism, Frank Lloyd Wright, the 1920's, etc.

Art

Mr. Runke, chairman; Miss Garvey, Mr. Halverson, Mr. Sandmann, Miss Sands, Mr. Schneider.

A. A major in Art consists of 54 credits, including Art 1, 2, 3, 4 or 5, 21, 31, 131, 141, 151, 161, 171, 190, 192, and 193.

In the School of Education, both Education 104M and 105X are required. A minor is **not** required with a 54 credit major.

B. A minor in Art consists of 22 credits, including:

(a) Art 1, 2, 3 and 5;

(b) Two of these: Art 21, 31, 131;

(c) One of these: Art 141, 151, 161, or 171;

(d) Art 192 or 193.

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 a part of the permanent collection of the department.

Art 1. 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.

- Art 2. Design: 3-dimensional.** Three credits.
Fundamental design principles in the art process in 3-dimensions, in structure and arrangement, utilizing a variety of materials. Prerequisite: Art 1.
- Art 3. Drawing.** Three credits.
Representational drawing. Prerequisite: Art 2, or concurrent registration.
- Art 4. Drawing.** Three credits.
Advanced problems in representational and abstract drawing media. Prerequisite: Art 3.
- Art 5. Introductory Crafts.** Three credits.
Application of design principles in various craft activities. Prerequisites: Art 2, or concurrent registration; Art 3.
- Art 6. 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. Prerequisite: Art 2, or concurrent registration.
- Art 21. Printmaking.** Three credits.
Print-making in black and white, and color, employing basic graphics media and techniques. Prerequisite: Art 3.
- Art 22. Printmaking.** Three credits.
Advanced problems in the graphics media. Prerequisite: Art 21.
- Art 31. Painting: Watercolor.** Three credits.
Painting in transparent and opaque watercolor. Prerequisite: Art 3.
- Art 32. Painting: Watercolor.** Three credits.
Advanced problems in watercolor mediums. Prerequisite: Art 31.
- Art 91. History of American Art.** Two Credits.
The art of North America with emphasis on art produced in the United States.
- Art 92. History of Latin American Art.** Two credits.
The art of Latin America from prehistoric to contemporary times.
- Art 93. History of 19th and 20th Century Western Art.** Three credits.
The immediate backgrounds of contemporary art; art produced during the 19th and 20th centuries.
- Art 131. Oil Painting.** Three credits.
Painting techniques in figure, still life, and landscape. Prerequisite: Art 3.
- Art 132. Oil Painting.** Three credits.
Advanced problems in the oil medium. Prerequisite: Art 131.
- Art 141. Advanced Crafts.** Three credits.
Advanced problems of applied design in various craft activities. Prerequisite: Art 5.
- Art 151. Sculpture.** Three credits.
Introduction to the materials and techniques of sculpture; creation of three-dimensional works by carving, casting, and construction; emphasis on contemporary use of materials and mixed media. Prerequisite: Art 3.
- Art 152. Sculpture.** Three credits.
Advanced problems in sculpture including a greater variety of materials and advanced techniques. Prerequisite: Art 151.
- Art 161. Ceramics.** Three credits.
Introduction to the materials and techniques of ceramics; methods of construction of ceramic ware, glazing, firing, and kiln management. Prerequisite: Art 3.
- Art 162. Ceramics.** Three credits.
Advanced problems and techniques in ceramic art. Prerequisite: Art 161.

- Art 171. Art Metal.** Three credits.
Basic materials and techniques of art metal; problems of design and application in relation to various materials. Prerequisite: Art 5.
- Art 172. Art Metal.** Three credits.
Advanced problems in art metal. Prerequisite: Art 171.
- Art 190. Seminar.** Two credits.
Open only to Art majors; research into problems and developments in the field of art.
- Art 192. History and Appreciation of Art.** Three credits.
Survey of art history in the areas of architecture and sculpture.
- Art 193. History and Appreciation of Art.** Three credits.
Survey of the pictorial arts; representative artists and schools of painting, reflecting their contributions to the field of art.
- Art 199. Special Work.**
Upper class students majoring or minoring in Art may, by agreement with their dean and the chairman of the Art 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.

Astronomy

Mr. Blocher, Mr. Taylor.

- Astronomy 11. Elementary Astronomy.** Three credits.
Elementary descriptive astronomy; mathematics not required; evening meetings required for observation and use of the department's four-inch refractor and six-inch reflector; use of the planetarium. Prerequisite: Sophomore standing.

Biology

Mr. Simpson, chairman; Mr. Barnes, Mr. Becker, Mr. Copes, Mr. Epple, Mr. Geeseman, Miss Godfrey, Mr. J. Harris, Mr. Hay, Mr. Howmiller, Mr. Pierson, Mr. H. H. Smith, Mr. Temp, Mr. Thiesfeld, Mr. White, Mr. Whitmire, Mr. Wilde.

A. A major in Biology consists of Biology 3; 4; 24 or 101; 105, 135, or 140; 160, 165, or 170; 190; and sufficient additional credits to total 34. At least 12 credits should be numbered 105 or above, and these should include one advanced plant course and one advanced animal course. One year of college chemistry is required.

B. A minor in Biology consists of Biology 3; 4; 24 or 101; and sufficient additional credits to total 22. At least four credits should be in courses numbered 105 or above. At least one advanced course should be in the area (animal or plant) opposite to that selected for the physiology course.

Students who have taken Biology 1 may complete a minor by taking Biology 24 or 101; 160 or 165; and other courses specifically approved by the chairman of the department to total 22 credits.

- Biology 1. General Biology.** Five credits.
Biological principles; survey of a wide variety of plant and animal life. Three hours lecture, four hours laboratory per week.

- Biology 3. 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 4. Introduction to Animal Biology.** Five credits.
Anatomy, physiology, adaptation and classification of animals; morphology and anatomy of various types of animals. Three hours lecture, four hours laboratory per week.
- Biology 9. 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 18. 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. Prerequisite: Biology 1 or 3.
- Biology 24. Animal Physiology.** Four credits.
A general course dealing with the body functions. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 4; or Biology 1 and Chemistry 1.
- Biology 35. Ornithology.** Three credits.
Identification, life histories, and habits of birds, with emphasis on local species. One hour lecture, four hours laboratory per week. There will be a nominal pro-rata charge for field trip expenses. Prerequisite: Sophomore standing.
- Biology 40. Personal and Community Health.** Three credits.
Health practices and problems in the fields of personal and community health. Prerequisite: Sophomore standing.
- Biology 101. 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 3, and one year of college chemistry.
- Biology 105. 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 3.
- Biology 107. 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 1 or 3.
- Biology 110. 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 1, 3, or 4. Preparation in chemistry is highly desirable.
- Biology 115. Plant Pathology.** Three credits.
Causes, symptoms, spread, and control of plant diseases. Two hours lecture, two hours laboratory per week. Prerequisite: Biology 3.
- Biology 120. Plant Taxonomy.** Three credits.
Collecting, classification, and phylogenetic considerations, with emphasis on seed plants. One hour lecture, four hours laboratory per week. Prerequisite: Biology 3.
- Biology 125. Natural History of Vertebrates.** Four credits.
Life histories and classification of midwestern vertebrates. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 1 or 4.

- Biology 127. Ichthyology.** Three credits.
Classification and natural history of fishes, with emphasis on food, game, and forage fishes found in Wisconsin. Two hours lecture, three hours laboratory per week. There will be a nominal pro-rata charge for field trip expenses. Prerequisite: Biology 1 or 4.
- Biology 130. 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. Prerequisite: Biology 1 or 4.
- Biology 133. 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. Prerequisite: Biology 1 or 4.
- Biology 135. Embryology.** Four credits.
Early embryology of vertebrates and the development of organ systems. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 4.
- Biology 140. 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 4.
- Biology 145. Animal Parasitology.** Four credits.
Structure, classification, and life histories of animal parasites. Two hours lecture, four hours laboratory per week. Prerequisite: Biology 1 or 4.
- Biology 155. Field Zoology.** Three credits.
Field trips; collection, preparation, and identification of local animals. One hour lecture, four hours laboratory per week. There will be a nominal pro-rata charge for field trip expenses. Prerequisite: Biology 1 or 4.
- Biology 157. Organic Evolution.** Three credits.
Origin and evolution of the Bios. Prerequisite: Biology 1, or Biology 3 and 4.
- Biology 160. Heredity and Eugenics.** Three credits.
General principles of heredity and variation in plants and animals, with emphasis on human inheritance.
- Biology 165. Ecology.** Three credits.
Physical and biotic interrelationships of plants and animals in their environment. Two hours lecture, three hours laboratory per week. There will be a nominal pro-rata charge for field trip expenses. Prerequisite: Biology 1; or Biology 3 and 4.
- Biology 170. 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 1; or Biology 3 and 4.
- Biology 190. Seminar.** One credit.
Studies and discussions of biological problems. Required of all Biology majors during the senior year.
- Biology 199. Special Work.** One or two credits.
Upper class students majoring or minoring in Biology may, with the consent of their dean and the chairman of the Biology Department, arrange for special research projects and be allowed one or two credits for the satisfactory completion of them.

Business Administration

Courses in Business are taught by members of the Economics Department, which also administers the major in Business Administration.

A major in Business Administration consists of (a) 47 credits in Business and Economics, and (b) 7 credits of required collateral courses. A student completing this major will at the same time fulfill the requirements for an Economics minor.

A. The 47 credits in Business and Economics shall include:

1. 41 credits as follows: Business 11, 12, 130, 140 or Economics 146, and 170 or 180; Economics 11, 12, 105, 122 or Psychology 17, 124 or 156, 130, 133, and 137.

2. Six credits from the following: Business 61, 120, 150; Economics 181.

B. The required collateral courses are English 30 and Mathematics 10.

Business 11. Elements of Accounting. Four credits.

Fundamentals of business accounting; records, books, accounts, and reports used in commercial and manufacturing firms; variations in accounting for corporations, partnerships, and independent businessmen; elementary income tax. Prerequisite: Sophomore standing.

Business 12. Intermediate Accounting. Four credits.

Theories in accounting and the application of alternative accounting procedures with problems illustrating their use. Prerequisite: Business 11.

Business 61. 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 carriers, the insurance contract, the planning and purchase of insurance. Prerequisite: Economics 11, or consent of instructor.

Business 111. Cost Accounting. Three credits.

Methods of finding the cost of each business operation and techniques to use such information for effective management. Prerequisite: Business 11.

Business 112. Advanced Accounting. Three credits.

Specialized accounting applications; partnership, branch accounts, installment sales, consolidations, governmental, public utilities, and income tax reporting from accounting records. Prerequisite: Business 12.

Business 120. 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 11, or consent of instructor.

Business 130. 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 12.

Business 140. Business Law. Three credits.

Law of real and personal property, agency, negotiable instruments, and contracts.

Business 150. 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 137.

Business 170. Personnel Relations.

Three credits.

Principles, policies, and practices applicable to personnel problems in dealing with staffing, training, wages, labor relations, communications. Prerequisite: Economics 11.

Business 180. Principles of Management.

Three credits.

Theory of management, managerial functions, departmentalization, staffing, direction, planning, and control. Prerequisite: Economics 11.

Business 199. Special Work.

Upper-class students majoring in Business Administration may, by agreement with their dean and 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. Koeppen, chairman; Mrs. Carlson.

Two alternatives are offered for majors in Business Education: (1) a comprehensive major; and (2) a major with a minor in a field outside of Business Education.

A. The comprehensive major in Business Education consists of:

1. Business Education 1, 2, 3, 4, 104, 106, and 107.
2. Collateral Courses, including: Economics 11, 12, and 130; Mathematics 10; Business 11, 12, 120, 140, and 180.

B. The major, with a minor in a field outside of Business Education consists of:

1. The courses listed in 1 and 2 above, with the following exceptions:
 - a. Business 120 omitted.
 - b. Business Education 105 instead of Business Education 106.
2. Completion of a minor in some other subject.

Business Education 1. Beginning Typewriting.

Two credits.

The mechanism of the typewriter, its technique of operation and the development of basic skill.

Business Education 2. Advanced Typewriting.

Two credits.

Development of typewriting proficiency. Prerequisite: Business Education 1, or exemption on proficiency.

Business Education 3. Beginning Shorthand.

Four credits.

Introduction to shorthand; reading and dictation practice.

Business Education 4. Advanced Shorthand.

Four credits.

Development of shorthand abilities. Prerequisite: Business Education 3, or exemption on proficiency.

Business Education 104. Office Procedures and Machines.

Three credits.

Principles of office organization, filing systems, business machines. Prerequisites: Business Education 2 and 4, or equivalent.

Business Education 105. 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. Prerequisites: Business Education 2 and 4, or equivalent.

Business Education 106. Secretarial Techniques and Practices. Six credits.

Shorthand, typewriting, and English in the transcription of letters; duties, responsibilities, and personal qualities of the secretary; human relations in the business office; on-the-job work experience in industrial situations. Prerequisites: Business Education 2, 4, and 104, or equivalent.

Business Education 107. Business Communication. Three credits.

Methods and procedures in business letter writing; introduction to report writing.

Business Education 199. Special Work.

Upper class students majoring in Business Education may, by agreement with their dean and 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 Engineering have been approved by the faculty. For information, consult the chairman of the Chemistry Department.

Chemistry

Mr. Trytten, chairman; Mr. Andrews, Mr. Esslet, Mr. Faust, Mr. Kallander, Mr. Lang, Mr. Moehlenpah, Miss Oyster, Mr. Schmid, Mr. Sommers, Mr. Weaver.

A. A major in Chemistry consists of Chemistry 7, 8, 15, 20, and additional credits in Chemistry courses numbered 100 or above to total 34 (exclusive of 190 and 199). Students planning careers as chemists, or graduate work in chemistry, are urged to take more than the minimum required for a major. Such students should take at least 40 credits in chemistry.

B. A minor in Chemistry consists of Chemistry 7, 8, 15, 20, and additional credits in chemistry courses numbered 100 or above to total 22.

With the permission of the chairman of the department, Chemistry 5-6 may be substituted for Chemistry 7-8 in either the major or minor.

Chemistry 1. Basic Chemistry.

Five credits.

Basic principles of chemistry; descriptive chemistry of some of the common elements and compounds. Two hours lecture, two hours quiz, three hours laboratory per week.

Chemistry 5-6. Fundamental Chemistry.

Each five credits.

Introductory chemistry, for students who do not qualify for Chemistry 7-8. Covers the same topics as Chemistry 7-8, but the treatment is less rigorous and more descriptive in nature. Two hours lecture, two hours quiz, three hours laboratory per week.

Chemistry 7-8. General Chemistry.

Each five credits.

Fundamental laws and principles of chemistry; descriptive chemistry of the metals and non-metals; qualitative analysis. Two hours lecture, two hours quiz, three hours laboratory per week. Prerequisites: One year of high school chemistry and two years of high school mathematics, all with grades of C or better.

Chemistry 10. Elementary Biochemistry.

Four credits.

Introduction to the chemistry of the major constituents of living cells and the basic transformations that these entities undergo in biological systems. Three hours lecture, one hour quiz per week. Prerequisite: Chemistry 1 or equivalent.

Chemistry 15. Quantitative Analysis. Five credits.
Gravimetric and volumetric methods with applications; introduction to spectrophotometry and potentiometric methods. Three hours lecture, six hours laboratory per week. Prerequisites: Chemistry 8; Mathematics 6 or 7, or four years of high school mathematics. Chemistry 6 may be substituted for Chemistry 8 with the consent of the chairman of the department.

Chemistry 20. Organic Chemistry I. Five credits.
Introduction to the chemistry of carbon compounds; the hydrocarbons and their derivatives. Three hours lecture, six hours laboratory per week. Prerequisite: Chemistry 8. Chemistry 6 may be substituted for Chemistry 8 with the consent of the chairman of the department.

Chemistry 110. Biochemistry. Five credits.
Chemistry of the constituents of living matter; functions and transformations of these constituents in biological systems; chemical and energetic changes associated with these transformations. Three hours lecture, six hours laboratory per week. Prerequisites: Chemistry 15, 20.

Chemistry 121. Organic Chemistry II. Five credits.
Detailed descriptive chemistry of compounds of the aliphatic, aromatic, and heterocyclic series; laboratory work on analysis and synthesis of representative organic compounds. Three hours lecture, six hours laboratory per week. Prerequisites: Chemistry 15, 20.

Chemistry 131. Physical Chemistry I. Five credits.
Introductory physical chemistry: properties of gases, the kinetic-molecular theory, atomic and molecular structure, thermodynamics, thermochemistry, the chemical bond, chemical equilibria. Three hours lecture, six hours laboratory per week. Prerequisites: Chemistry 15, 20; Physics 12 or 32; Mathematics 12.

Chemistry 132. Physical Chemistry II. Five credits.
A continuation of Chemistry 131; chemical kinetics, liquids, crystals, phase equilibria, solutions, electrochemistry, surface chemistry, macromolecules. Three hours lecture, six hours laboratory per week. Prerequisite: Chemistry 131.

Chemistry 140. Advanced Analytical Chemistry. Four or five credits.
Theory and applications of complex chemical equilibria; selected methods of analytical separations and instrumental analysis: potentiometry, polarography, spectrophotometry, gas and liquid-liquid chromatography, ion exchange, chelometry, extraction, and distillation. Two hours lecture, six or nine hours laboratory per week. Prerequisite: Chemistry 132, or concurrent registration therein.

Chemistry 141. Advanced Inorganic Chemistry. Four credits.
Nuclear chemistry, atomic and molecular structure, the chemical bond, coordination compounds and complex ions, non-aqueous solvents, descriptive inorganic chemistry, inorganic reaction mechanisms. Four hours lecture per week. Prerequisite: Chemistry 132, or concurrent registration therein.

Chemistry 190. Seminar. One credit.
Studies and discussions of current developments in chemistry.

Chemistry 199. Special Work.
Seniors majoring in chemistry may, with the consent of their dean and 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.

Colloquium

Mr. Wrone.

The purpose of the Colloquium is to help students acquaint themselves with great ideas developed by mankind and evaluate the theories and practices of the twentieth century in the light of human learning of the past three thousand years. It is a course for reading and discussion.

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 101-102-103-104.

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.

Conservation

Mr. Wievel, chairman; Mr. Baumgartner, Mr. Engelhard, Mr. Harpstead, Mr. Korth, Mr. Newman, Mr. Purchase, Mr. Teate, Mr. Yambert.

A. A major in Conservation consists of:

1. 34 credits, including Conservation 1, 2, 3, 4, 5, 181, 182, and 190; Biology 165; Geography 3.
2. Collateral courses, including: Biology 3, 4; Chemistry 5-6 or 7-8; Mathematics 2, or 6, or 8.
3. Summer Camp courses, including: Conservation 129S, 149S, and 159S.

B. A minor in Conservation consists of 22 credits, including Conservation 2, 3, 4, 5, and 184.

Conservation 1. Introduction to Natural Resources.

One credit.

An introduction to natural resources, with emphasis on their integrated management and their role in man's social and economic welfare. Open to all students.

Conservation 2. Introduction to Forest Resources.

Three credits.

An introduction to the forest resources of the United States with special emphasis on the role of forestry in historic and current events; elementary mensuration and management techniques.

Conservation 3. Introduction to Water Resources.

Three credits.

Surface and sub-surface water resources, their economic and social importance, control, and conservation.

Conservation 4. Introduction to Wildlife Resources.

Three credits.

An introduction to the wildlife resources of the United States; the importance of wildlife to our past and present economic and cultural life; selected problems in wildlife conservation.

Conservation 5. Introduction to Soil Resources.

Four credits.

A study of the origin and development of soil, with emphasis on physical, chemical, and biological properties and their relationship to soil fertility. Prerequisite: Chemistry 6 or 8 or concurrent registration therein.

Conservation 111. Conservation of Natural Resources. Three credits.

A survey of natural resources with emphasis on the development of the proper public attitude toward the wise use of our natural resources; designed principally as an informational course for those who will need it for teaching preparation. Not open to conservation majors or minors.

Prerequisites for the advanced courses listed below will depend on the discretion of the student's adviser in relation to the advisee's special interests in the field of conservation. Conservation 121, 122, 123, and 129S are prerequisite to all other 100 level forestry courses unless excepted by consent of the instructor.

Conservation 121. Dendrology. Three credits.

Identification, classification, distribution, and economic importance of the principal forest trees of the United States.

Conservation 122. Forest Mensuration. Three credits.

Measurement of forest stands, products, and growth, including the construction and use of appropriate instruments, tables, and surveys.

Conservation 123. Principles and Practices of Silviculture. Three credits.

A study of the ecological factors influencing the forest community, and the use of this knowledge in the control of forest establishment, composition, and growth.

Conservation 124. Forest Fire Control and Use. Three credits.

A study of fire behavior, effects, prevention, control, and use in land management.

Conservation 125. Forest Management and Finance. Three credits.

Principles of organizing and regulating forest properties; valuation and investment analysis.

Conservation 126. Forest Entomology and Pathology. Three credits.

A survey of the important forest insects and diseases, their relation to forest management and utilization, and the principles and methods of their control.

Conservation 127. 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.

Conservation 128. Wood Technology. Three credits.

Structure of wood; identification of native woods by microscopic and macroscopic features; physical and chemical properties; uses.

Conservation 141. Limnology. Three credits.

A study of the physical, chemical, and biological phenomena of freshwater communities.

Conservation 142. Game Management. Three credits.

History and development of game management in the United States; fundamental principles of management of game animals; coordination of such management with current land use practices.

Conservation 143. Game Management Techniques. Three credits.

Survey of the 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.

Conservation 144. Fisheries Management. Three credits.

Survey of the characteristics of fishes that affect their management; basic principles of management of inland waters for fish production.

- Conservation 150. Soil Management.** Three credits.
Principles and practices of soil conservation and soil fertility.
- Conservation 151. Forest Soils.** Three credits.
Properties and management of soils in relation to silviculture and agriculture, including the practical application of the principles of soil science.
- Conservation 152. Soil Genesis and Morphology.** Three credits.
Geologic origin, characteristics, and taxonomic grouping of soils, together with emphasis on survey methods and mapping procedures.
- Conservation 153. Agronomy.** Three credits.
A study of grain and forage crops, with emphasis on management practices.
- Conservation 155. Soil Analysis.** One to three credits.
Methods of determining physical and chemical properties of soils. Prerequisite: Conservation 151, and Conservation 150 or 152; or consent of the instructor.
- Conservation 175. Mineral Resources.** Three credits.
A descriptive and interpretive treatment of the distribution and production of world mineral resources, including conservation principles.
Same as Geography 175.
- Conservation 181. Conservation Administration.** Two credits.
The administrative principles and organizational structure of private, local, state, and federal conservation agencies.
- Conservation 182. Resource Economics.** Three credits.
Fundamental economic concepts and their application to resource use; traditional and revised theories of land use; problems of land policy formation with emphasis on conservation.
- Conservation 183. Conservation Law.** Three credits.
A study of legislation as it pertains to natural resources with consideration given to the need for, purpose of, and implementation of such laws.
- Conservation 184. Integrated Resource Management.** Three credits.
Integrated management of resources with emphasis upon combinations of principles prerequisite to the formulation and implementation of natural resources policy. Special attention is given to current issues, problems, trends. Prerequisites: Conservation 2, 3, 4, 5.
- Conservation 190. Conservation Seminar.** Two credits.
Individual and group investigation of current problems in conservation. Prerequisite: Senior standing for majors or minors in conservation.
- Conservation 199. Special Work.** One or two credits.
Upper class students majoring or minoring in Conservation may, by agreement with their dean and the chairman of the Conservation 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.
- Summer Camp Program**
The summer camp program provides a unique opportunity for students to gain valuable field experience. The program is designed to serve as a supplement to on-campus courses. It is required of all students majoring in Conservation and graduating in the School of Applied Arts and Science.
- Conservation 129S. Forest Measurement and Surveying.** Two credits.
A study of field practices in the application of forest measurement and surveying techniques.

Conservation 149S. Techniques in Fish and Wildlife Conservation. Two credits.

A study of and field practice in the application of various fish and wildlife conservation techniques, including census methods, management practices, and a study of the various types of gear used in the taking of fish and game.

Conservation 159S. Techniques of Soil and Water Conservation. Two credits.

A study of and field practice in the application of various soil and water conservation techniques, including land use classification, various methods of erosion control, drainage, and public relations measures.

Economics

Mr. Jensen, chairman; Mr. H. Anderson, Mr. Christie, Mr. Farmer, Mr. Haferbecker, Mr. Kelch, Mr. Sullivan.

A. A major in Economics consists of:

1. Required courses: Economics 11, 12, 105, 130, 150.
2. Controlled electives: 9 credits from the following courses: Economics 101, 122, 124, 137, 146, 156, 181.
3. Electives: additional Economics courses to total at least 30 credits.
4. Collateral course: Mathematics 6 or 9 or 10.

B. A minor in Economics consists of at least 20 credits, including Economics 11, 12, and 130.

NOTE: Four additional credits in Economics to total at least 34 are required for a major in Economics in the Secondary Education curriculum; and two additional credits in Economics to total at least 22 are required for a minor in Economics in the Secondary Education curriculum.

Economics 11. General Economics.

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 12. General Economics.

Three credits.

Monopolistic competition and price theory; micro-economics, theory of distribution, public finance, international trade, and the balance of payments. Prerequisite: Economics 11.

Economics 101. Development of Economic Thought.

Three credits.

A survey of economic thought from the mercantilists to recent writers. Prerequisite: Economics 12.

Economics 105. Money and Banking.

Three credits.

Monetary and banking principles and practice; price theories; banking systems and their operation. Prerequisite: Economics 11.

Economics 106. Population Problems.

Three credits.

Same as Sociology 106.

Demography, population theory, trends and analysis; United States and world population. Prerequisite: Economics 11, or Sociology 11.

Economics 122. 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 124. Public Finance.

Three credits.

Same as Political Science 124.

Theories, practices, and problems of taxation; proposed tax reforms; fiscal policy. Prerequisite: Economics 12.

Economics 127. Consumer and Cooperative Economics. Two credits.

Economics for the consumer; purchasing, investing, consumer credit, taxation, and insurance; the development, philosophy, and problems of consumer and marketing cooperatives.

Economics 130. 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 11.

Economics 131. 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 12, 130; Mathematics 5 or 7.

Economics 133. Managerial Economics. Three credits.

Application of price theory and economic theory of the firm to business management decisions; use of microeconomics and macroeconomics in forecasting for business policy. Prerequisite: Economics 12.

Economics 137. Corporation Finance. Three credits.

Business units, especially corporate, in present day enterprise; financial principles applicable to their operation. Prerequisite: Economics 11.

Economics 142. 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 11.

Economics 146. Business and Government. Three credits.

Same as Political Science 146.

A general survey of the problems of the relationship between government and business in an advanced technological society. Prerequisite: Economics 12.

Economics 150. Economic Theory. Three credits.

The study of contemporary micro-economic theory, including consumption, production, pricing, and resources allocation; macro-economics, an analysis of the level of national income, is also included. Prerequisite: Economics 12.

Economics 151. 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 12.

Economics 152. Economic History of the United States. Three credits.

Same as History 152.

Prerequisites: History 11, 12.

Economics 156. International Trade. Three credits.

The role of international trade, principle of comparative advantage, foreign exchange, balance of payment, gold flows. Prerequisite: Economics 12.

Economics 163. Social Insurance. Two credits.

Same as Sociology 163.

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 11, or consent of instructor.

Economics 181. Business Cycles.

Three credits.

Analysis of leading theories; the Keynesian system; monetary and other factors; measurement of income, output, and employment; forecasting; policy. Prerequisite: Economics 12.

Economics 199. Special Work.

Upper class students majoring or minoring in Economics may, by agreement with their dean and 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.

Education

Mr. Bernd, chairman; Mr. Baum, Mr. Bender, Mr. Cable, Mr. Clements, Mr. Coaty, Mr. Cone, Mr. Devine, Mr. Eagon, Mr. Gach, Mr. Gotham, Miss Gray, Mr. Hayes, Miss L. Kellogg, Miss V. Kellogg, Mrs. Kerst, Miss Kuse, Miss Langen, Mr. Lensmire, Mr. R. Lewis, Mr. Oliver, Miss Padden, Mr. Radke, Mrs. Ravey, Mr. Rossmiller, Mrs. Samter, Mr. Snowden, Mr. Wickman, Mr. Wiemann, Mr. Yoder, Mrs. Yost.

Education 1. Driver Education for Beginners.

No credit.

Concurrent with Education 136 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 101. Techniques in Kindergarten Education.

Two credits.

Techniques used in kindergarten teaching; observation included.

Education 102. Techniques in Primary Education.

Each two credits.

Principles, aims, methods, and techniques.

102K - Reading and Phonics; L - Arithmetic, Social Studies, Science; M - Language, Spelling, Handwriting.

Education 103. Techniques for Intermediate and Upper Grades. Each four credits.

Principles, aims, methods, and techniques of intermediate and upper grade teaching. Three hours lecture; observation and laboratory hours to be arranged.

103K - Reading, Language Arts; L - Social Studies, Arithmetic, Science.

Education 104. Techniques in the Elementary School.

104K. Guidance.

Three credits.

Policies and practices of organized guidance in the elementary school; personal, social, and educational adjustment problems and needs. Prerequisites: Education 121 and teaching experience.

104L. Speech.

Three credits.

Methods, materials, and philosophy for the teaching of speech in the elementary school; curricular correlation.

104M. Art.

Two credits.

Methods materials, and philosophy for the teaching of art in the elementary school.

104N. 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 10. (Open only to Music majors and minors.)

Education 105. Techniques in Secondary Education.

Each two credits.

Aims, methods, materials, techniques, planning, organization, testing, etc., as applied in high school teaching.

105K - Accounting; L - Shorthand and Typewriting; M - English; P - Foreign Language; Q - Home Economics; R - Mathematics; S - Music; U - Science; V - Social Studies; W - Speech; X - Art.

Education 106. Techniques in Elementary and Secondary Education.

Each two credits.

Aims, methods, materials, techniques, planning, organization, testing, etc., as applied in elementary and high school teaching.

106K - Physical Education; L - Speech Correction.

Education 108. 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.

Education 110. Workshop in Education.

One to three credits.

Workshop technique applied to problems of teaching in the elementary and secondary schools. A subtitle will be added to the title to describe the area each time the course is offered. Prerequisites may be stated for each subtitle.

110C — Conservation — Prerequisite: open only to students majoring or minoring in Conservation; or Conservation 111.

Education 111. 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 112. 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 11.

Education 113. 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 121. 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.

Education 131. Audio-Visual Education.

Three credits.

Classroom use of such aids as pictures, slides, motion pictures, and maps; training in the use of radio programs as an educational aid.

Education 132. Production of Audio-Visual Aids.

Two credits.

Production of flannel boards, specimens and models, film strips, taped radio programs, displays and exhibits. Four hours per week. Prerequisite: Education 131, or consent of instructor.

Education 135. Safety Education.

Three credits.

Organization, administration, and teaching of safety in home, highway, water, athletic, recreational, and industrial areas.

Education 136. 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 137. 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 135, 136.

Education 181. 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 183. 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 education techniques.

Education 184. 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 11.

Education 185. 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 190. Seminar.

One to three credits.

Studies and discussion of current problems in education. A subtitle will be added when specific areas are treated.

Education 191. Organization and Administration of Vocational Home Economics.

Three credits.

Organization and administration of the vocational home economics program in rural and city schools, including experience with adult home making education.

Education 193.

Issues in Vocational and Technical Education.

Two credits.

The administration and organization of vocational and adult education on the national, state, and local level.

Education 198. 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 199. Special Work.

Upper class students in the School of Education may, by agreement with the dean and 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.

Engineering Graphics

Mr. Lampert.

Engineering Graphics 1. Engineering Graphics.

Three credits.

Orthographic projection, sectional view conventions, theory of dimensioning, construction of auxiliary views, and applications to theoretical and practical problems; techniques of freehand and mechanical drafting, tracing.

Engineering Graphics 2. 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, screw threads, and springs. Prerequisite: Engineering Graphics 1.

English

Mr. Burress, chairman; Miss Bannach, Mrs. Bernd, Mrs. Boylan, Mrs. Burress, Mr. Chapman, Mrs. Corneli, Mr. Doxtator, Mr. Fortune, Mr. Friedman, Miss Glennon, Mr. Golubowicz, Mrs. Hays, Miss Koskenlinna, Mrs. Kramer, Mr. Lehman, Mr. L. Lewis, Miss Matrone, Mr. Mickelson, Miss Nyquist, Mr. O'Kelley, Mr. Pattow, Mr. Preston, Mr. Richert, Mrs. Richert, Mr. Rondy, Miss Shields, Miss Shumway, Miss Smith, Miss Stelmahoske, Mr. Stevens, Mr. Truckey.

A. A major in English consists of a minimum of 32 credits beyond Freshman Composition. These include 12 credits in English and American Literature (normally English 11-12 and 13-14; however a student who elects to major in English while taking English 15-16 may complete this requirement by taking either English 11-12 or 13-14), and 20 credits distributed as follows:

1. One of these courses: English 110, 112, 114, 116, 118, 120. (Two or three credits.)
2. Two of these courses: English 126, 127, 128, 130, 132, 133, 134, 137, 138, 140, 142, 143, 145-146. (Six credits.)
3. English 155 or 156 and one other from this group: English 150, 160, 165. (Six credits.)
4. English 194 and one other from this group: English 30, 183-184, 188, 190, 192. (Five or six credits.)

B. A minor in English consists of a minimum of 18 credits beyond Freshman Composition. These must include 6 credits in English Literature (English 11-12) or 6 credits in American Literature (English 13-14), 3 credits of Shakespeare (English 155 or 156), and 3 credits of grammar (English 194). Three credits shall be chosen from group 1; three credits shall be chosen from group 2.

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, speech and drama, history, and the social sciences.

Recommendation for practice teaching and for teacher placement will be given only to majors and minors whose grade point average in their English classes 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, conservation, industry, or science should work out programs in consultation with the chairmen of the respective departments: English and Business, English and Conservation, etc.

- English 1-2. Freshman Composition.** Each three credits.
Mechanics of writing, spelling, punctuation, sentence structure, paragraphing, use of dictionary, making bibliographies, note-taking, outlining, reading and reporting on books of fiction and non-fiction for building up a fund of ideas to be used in writing short themes. Required of all freshmen.
- English 11-12. Survey of English Literature.** Each three credits.
A study of selections taken from English literature with emphasis on the major writers. (11.) From Beowulf through the Pre-Romantics. (12.) From the Romantics to the present. Need not be taken in sequence. Prerequisite: Sophomore standing, except for English majors.
- English 13-14. Survey of American Literature.** Each three credits.
A study of selections taken from American literature with emphasis on the major writers. (13.) From Colonial literature through Whitman. (14.) From Dickinson to the present. Need not be taken in sequence. Prerequisite: Sophomore standing.
- English 15-16. Introduction to Literature.** Each 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 literature. (15.) Poetry and Drama. (16.) Prose. Need not be taken in sequence. Prerequisite: English 2 or equivalent.
- English 21. Literature of the Primary Grades.** Three credits.
Literature by types, with emphasis upon narrative; the establishing of standards by which to judge new literature. Prerequisite: Sophomore standing.
- English 23. 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.
- English 30. Intermediate Composition.** Two or three credits.
Practice in descriptive, narrative, and expository projects, with special emphasis on expository writing. Prerequisite: Sophomore standing.
- English 34. Introduction to Linguistics.** Three credits.
A survey of the fundamental concepts and methods of the scientific study of languages in their structural, historical, and geographic aspects. Prerequisite: Sophomore standing.
- English 40. English and American Plays.** Two or three credits.
Representative twentieth century English and American plays. Prerequisite: Sophomore standing.
- English 100. Business English.** Three credits.
Methods and procedures in business letter writing; introduction to business reports.
- English 104. Literature for Adolescents.** Three credits.
Selecting and reading of literature suitable for adolescents.
- English 110. The Essay.** Two or three credits.
The essay as a type of literature in England and in America.
- English 112. Contemporary Drama.** Two or three credits.
Origin, development, and characteristics of the drama; a workshop in contemporary plays.
- English 114. Modern Poetry.** Two or three credits.
A study of contemporary poetry. Prerequisites: English 11-12, or 13-14.

- English 116. The Modern Short Story.** Three credits.
Representative British, Continental, and American short story writers, with major emphasis on theme; secondary emphasis on form and genre. Prerequisites: English 11-12, or 13-14, or consent of instructor.
- English 118. The Novel since 1850.** Three credits.
Representative British, Continental, and American novels, with major emphasis on theme and intention of writer; secondary emphasis on form and genre.
- English 120. Literary Criticism.** Two or three credits.
Principles of literary criticism based upon the chief ancient and modern theories.
- English 126. The English Renaissance.** Three credits.
Development of English literature from 1500 to 1660.
- English 127. English Renaissance Drama, excluding Shakespeare.** Three credits.
Non-Shakespearean drama of the English Renaissance.
- English 128. 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 130. 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 132. The Victorian Period.** Three credits.
Works of the great poets and prose writers of the Victorian epoch in the light of the historical background and of the social and intellectual movements and literary development of the age.
- English 133-134. The English Novel.** Each three credits.
First semester: The English novel from Defoe to George Eliot. Second semester: Since George Eliot. These courses may be taken independently of one another.
- English 137-138. The American Novel.** Each three credits.
First semester: The American novel from Brockden Brown to Mark Twain. Second semester: From Stephen Crane to the present. These courses may be taken independently of one another.
- English 140. The New England Circle.** Three credits.
A critical study of the writings of Emerson, Thoreau, Hawthorne, Whittier, Longfellow, Holmes, and Lowell. Prerequisite: English 13-14.
- English 142. Midwestern Literature.** Three credits.
History and life of prairie states, virgin forests, rivers, cities, farms, and industries as reflected in their literature.
- English 143. The Negro in American Literature.** Three credits.
A critical study of the Negro in American literature from two vantage points: the image of the Negro in the works of major American writers, and the image of the Negro and the image of America in works created by American Negro writers.
- English 145-146. World Literature.** Each three credits.
First semester: Representative selections of world literature from the earliest times to the seventeenth century. Second semester: World literature from the seventeenth century to the present. These courses may be taken independently of one another.

English 147. The New Literature of Africa. Three credits.

An exploration of Africa's self-expression and self-revelation in the growing body of poetry, fiction, and non-fiction by the contemporary African writers which will be studied in the context of the African drive for independence and the dynamics of cultural change in Africa. Not to be counted toward the English major.

English 150. 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 155-156. Shakespeare. Each three credits.

First semester: The early plays. Second semester: The tragedies and later plays. These courses may be taken independently of one another.

English 160. Milton. Three credits.

Milton's poetry and selected prose.

English 165. 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 183-184. Creative Writing. Each two or three credits.

Creative writing in the essay, short story, and drama; a study of types of creative writing. These courses may be taken independently of one another. Prerequisite: Consent of the instructor.

English 188. History of the English Language. Three credits.

Standards of usage and pronunciation; development of the English vocabulary; development of sounds, inflection, and syntax of the language.

English 190. Old English. Three credits.

Introduction to Old English language and literature.

English 192. Expository Writing. Three credits.

An advanced course in the principles and practices of expository writing.

English 194. The Grammar of English. Three credits.

Form and function in modern English.

English 198. Workshop in English. Two or three credits.

Study of contemporary scholarship in the English language.

English 199. Special Work.

Upper class students majoring or minoring in English may, by agreement with their dean and the chairman of the English 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. Prerequisite: A grade point average of 2.75 in English courses.

Foreign Language

Mr. Kroner, chairman; Mr. Alber, Miss M. Davis, Miss Gomez, Miss Kaminska, Mrs. Knowlton, Mrs. LeChausse, Miss Strauss.

French

A. A major in French consists of 26 credits beyond the first year level.

B. A minor in French consists of 16 credits beyond the first year level, including French 113 or 114.

The equivalent of one year's training in French must be completed before credit in French will count toward graduation.

There is a laboratory fee of approximately fifty cents per semester.

French 1-2. First Year French. Each four credits.

For students with no previous training in the language; grammar, oral practice, reading. Students with one year of high school French, with grades of C or better, will enter French 2.

French 11-12. Second Year French. Each four credits.

Extensive and intensive reading; oral practice and review of grammar. Prerequisite: French 2, or two years of high school French, with grades of C or better. Students who present three years of high school French will enter French 12.

French 111-112. French Literature and Civilization. Each three credits.

Survey course; lectures, readings, reports. Prerequisite: French 12 or equivalent. These courses need not be taken in sequence.

French 113-114. Composition and Conversation. Each two or three credits.

Facility in French expression, oral and written. Prerequisite: French 12 or equivalent. These courses need not be taken in sequence.

French 115-116. French Literature — Advanced Survey. Each three credits.

Prerequisites: French 113-114 or equivalent. These courses need not be taken in sequence.

French 117. Advanced Composition and Conversation. Two or three credits.

Prerequisites: French 115-116 or equivalent.

French 119. French Literature of the Seventeenth Century. Three credits.

Careful reading and analysis of masterpieces of the classic period. The student will select one writer for intensive study. Prerequisites: French 115-116, or consent of the instructor.

French 120. French Literature of the Eighteenth Century. Three credits.

Careful reading and analysis of masterpieces of the "Age of Reason." The student will select one writer for intensive study. Prerequisites: French 115-116, or consent of the instructor.

French 199. Special Work.

Upper class students majoring or minoring in French may, by agreement with their dean and the chairman of the French 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.

German

A. A major in German consists of 26 credits beyond the first year level.

B. A minor in German consists of 16 credits beyond the first year level, including German 113 or 114.

The equivalent of one year's training in German must be completed before credit in German will count toward graduation.

There is a laboratory fee of approximately fifty cents per semester.

German 1-2. First Year German. Each four credits.

For students with no previous training in the language; grammar, oral practice, reading. Students with one year of high school German, with grades of C or better, will enter German 2.

German 11-12. Second Year German. Each four credits.

Extensive and intensive reading; oral practice and review of grammar. Prerequisite: German 2, or two years of high school German, with grades of C or better. Students who present three years of high school German will enter German 12.

German 111-112. German Literature and Civilization. Each three credits.

Survey course: lectures, reading, reports. Prerequisite: German 12 or equivalent. These courses need not be taken in sequence.

German 113-114. Composition and Conversation. Each two or three credits.

Facility in German expression, oral and written. Prerequisite: German 12 or equivalent. These courses need not be taken in sequence.

German 115-116. German Literature — Advanced Survey. Each three credits.

Prerequisites: German 113-114 or equivalent. These courses need not be taken in sequence.

German 117. Advanced Composition and Conversation. Two or three credits.

Prerequisites: German 115-116 or equivalent.

German 119. German Literature of the Eighteenth Century. Three credits.

Selective reading from Lessing, Herder, Schiller, and the works of Goethe exclusive of "Faust." Prerequisites: German 115-116, or consent of the instructor.

German 120. Goethe's "Faust," I and II. Three credits.

Prerequisites: German 115-116, or consent of the instructor.

German 199. Special Work.

Upper class students majoring or minoring in German may, by agreement with their dean and the chairman of the German 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.

Russian

A minor in Russian consists of 16 credits beyond the first year level, including Russian 113 or 114.

The equivalent of one year's training in Russian must be completed before credit in Russian will count toward graduation. There is a laboratory fee of approximately fifty cents per semester.

Russian 1-2. First Year Russian. Each four credits.

For students with no previous training in the language; grammar, oral practice, reading. Students with one year of high school Russian will enter Russian 2.

Russian 11-12. Second Year Russian. Each four credits.

Extensive and intensive reading; review of grammar and pronunciation. Prerequisite: Russian 2 or two years of high school Russian. Students who present three years of high school Russian will enter Russian 12.

Russian 111-112. Russian Literature and Civilization Each three credits.

Survey course: lectures, readings, reports. Prerequisite: Russian 12 or equivalent. These courses need not be taken in sequence.

Russian 113-114. Composition and Conversation. Each two or three credits.

Facility in Russian expression, oral and written. Prerequisite: Russian 12 or equivalent. These courses need not be taken in sequence.

Russian 199. Special Work.

Upper class students majoring or minoring in Russian may, by agreement with their dean and the chairman of the Russian 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.

Spanish

A minor in Spanish consists of 16 credits beyond the first year level, including Spanish 113 or 114.

The equivalent of one year's training in Spanish must be completed before credit in Spanish will count toward graduation. There is a laboratory fee of approximately fifty cents per semester.

Spanish 1-2. First Year Spanish.

Each four credits.

For students with no previous training in the language; grammar, oral practice, reading. Students with one year of high school Spanish, with grades of C or better, will enter Spanish 2.

Spanish 11-12. Second Year Spanish.

Each four credits.

Extensive and intensive reading; oral practice and review of grammar. Prerequisite: Spanish 2, or two years of high school Spanish with grades of C or better. Students who present three years of high school Spanish will enter Spanish 12.

Spanish 111-112. Spanish Literature and Civilization.

Each three credits.

Survey course: lectures, reading, reports. Prerequisite: Spanish 12 or equivalent. These courses need not be taken in sequence.

Spanish 113-114. Composition and Conversation.

Each two or three credits.

Facility in Spanish expression, oral and written. Prerequisite: Spanish 12 or equivalent. These courses need not be taken in sequence.

Spanish 199. Special Work

Upper class students majoring or minoring in Spanish may, by agreement with their dean and the chairman of the Spanish 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.

Forestry

The major in Forestry consists of a selection of courses in Conservation. It is administered by the Conservation Department.

The major described below has been approved by the faculty of the University and by the Board of Regents. It is awaiting approval by the Coordinating Committee for Higher Education.

A major in Forestry consists of:

1. Conservation 1, 2, 3, 4, 5, 121, 122, 123, 124, 125, 126, 127 or 128, 151, and 182.
2. Summer camp courses, including: Conservation 129S, 149S, and 159S.
3. Collateral courses, including: Biology 3, 4, 101, 165; Chemistry 5-6 or 7-8; Geography 3; Physics 3; Economics 11; one mathematics course unless exempted by the Conservation Department.

French

See Foreign Language.

General Science

Mr. Kulas, adviser.

Six credits of college mathematics, or the equivalent, are required as a supplement to the General Science major.

A. A major in General Science in the School of Letters and Science consists of the following:

1. At least two of the following sciences:
Biology 3-4.
Chemistry 5-6, or 7-8.
Geography 2-3.
Physics 3-4, or 31-32.
2. The course(s) numbered 1 in the other science(s).
3. Ten credits elected from courses numbered over 100 in biology, chemistry, and physics, and Geography 151, 152.

B. A major in General Science in the School of Education consists of the following:

1. Biology 3-4.
Chemistry 5-6, or 7-8.
Geography 2-3.
Physics 3-4, or 31-32.
2. 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.
3. 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 biology, chemistry, physics, Geography 1, 2, 3, 151, 152. A minimum of one 5-credit course must be selected from each of three of the four fields. In using the year sequence courses, both semesters must be completed.

Geography

Mr. R. Anderson, chairman; Mr. Arndt, Mr. Bastian, Mr. Chang, Mr. Echola, Mr. Alvin Johnson, Mr. Kapter, Mr. Loomer, Mr. MacDougall, Mr. McKinney, Mr. Perret, Mr. Ray, Mr. Sengenberger, Mr. Specht, Mr. Steiger.

A. A major in Geography consists of a minimum of 34 credits.

B. A minor in Geography consists of a minimum of 22 credits.

Basic courses in physical geography (Geography 1, or 2 and 3) and economic geography (Geography 10) will normally be followed by a selection of regional and topical courses. This selection should be made with some unifying objective.

The physical geography courses consist of Geography 1, 2, 3, 151, and 152. All others, except Geography 176, are cultural.

Geography 1. Earth Science.

Five credits.

Factors of our natural environment; earth relationship, weather, land-forms, 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.

Geography 2. 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 3. 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 10. Economic Geography.

Three credits.

Production and distribution of the world's commodities of commerce — its foodstuffs, raw materials, manufactured goods, and trade.

Geography 11. Wisconsin.

Two credits.

A geographic analysis of the natural and cultural features of the state. Prerequisite: Sophomore standing.

Geography 12. The Soviet Union.

Two credits.

A geographic interpretation of the Soviet Union, with special attention to changes in the economic structure. Prerequisite: Sophomore standing.

Geography 13. 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 emphasis 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 14. Regional World Geography.

Two credits.

Same as Geography 13, but covering Europe, Asia, Insular Asia, and Africa. Not open to Geography majors and minors. Prerequisite: Sophomore standing.

Geography 26. North America.

Three credits.

Regional geography of the United States and Canada. Prerequisite: Sophomore standing.

Geography 51. 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 100. Africa.

Two credits.

Regional interpretation of the distribution and activities of the peoples, economic and colonial interests of the European countries, and contrasting types of culture and occupation as related to landforms, climate, and natural resources.

Geography 101. Middle America.

Two credits.

Regional geography of Mexico, Central America, and the islands of the Caribbean.

Geography 102. 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 126. Historical Geography of the United States.

Three credits.

Influence of the geographic factors in the historical development of the United States.

- Geography 127. 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 128. Europe.** Three credits.
The geographic regions of Europe.
- Geography 129. South America.** Three credits.
A topical and regional analysis of the geography of South America.
- Geography 151. Climatology.** Three credits.
An analysis of the weather elements; a description and interpretation of the climatic types of the world. Prerequisite: Geography 1 or 2, or consent of the instructor.
- Geography 152. Landforms.** Three credits.
Form and origin of landforms; field trips in the local area to supplement classroom activities. Prerequisite: Geography 1 or 3, or consent of the instructor.
- Geography 172. 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 173. 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. Same as Sociology 173.
- Geography 174. Agricultural Geography.** Three credits.
Characteristics, development, and location factors of world agricultural production, including both a topical and a regional analysis.
- Geography 175. Mineral Resources.** Three credits.
Distribution and production of world mineral resources, including conservation principles. Same as Conservation 175.
- Geography 176. Cartography and Photogrammetry.** Four credits.
An introduction to map making, map reading, and airphoto interpretation; two hours lecture, four hours laboratory per week.
- Geography 199. Special Work.**
Upper class students in Geography may, by agreement with their dean and 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.

German
See Foreign Language.

History

Mr. Crow, chairman; Mr. Crangle, Mr. Face, Mr. Gibson, Mr. Hays, Mr. Jenkins, Mr. Knowlton, Mr. Kremple, Mr. Morrison, Mr. Nelson, Mr. Schmeller, Mr. Sigmund, Mr. Soroka, Mr. Stielstra, Mr. Walker, Mr. Wrone, Mr. Zieger.

A. A major in History shall consist of at least 34 credits:

1. History 1-2, 3-4, and 11-12.
2. A concentration of eight credits in one of the following fields:
 - a. European History: History 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 119, 120, 143, 144, 199.

- b. Non-Western History: History 121, 122, 124, 131, 135, 136, 141, 142, 199.
- c. United States History: History 152, 153, 154, 155, 156, 157, 158, 160, 161, 162, 163, 164, 165, 199.
- 3. At least eight credits divided between the two fields not elected for concentration.
- 4. If a degree is taken in secondary education, at least 10 credits of United States History must be taken.
- 5. Geography 2-3, Political Science 1, and Economics 11 are recommended as corollary courses, but are not required.
- B. A minor in History consists of at least 24 credits:**
 - 1. History 1-2 or 3-4, and 11-12.
 - 2. A concentration of six credits in European, Non-Western, or United States History as listed above.
 - 3. At least six 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 both in relation to time and location.

History 1-2. Medieval History. Each three credits.

- 1. History of Europe from the fourth century to the twelfth century;
- 2. History of Europe from the twelfth century to the sixteenth century. History 1 is prerequisite to History 2.

History 3-4. Modern European History. Each three credits.

- 3. History of Europe from the sixteenth century to the nineteenth century;
- 4. History of Europe in the nineteenth and twentieth centuries. Need not be taken in sequence.

History 11-12. United States History. Each three credits.

- 11. History of the United States to 1865; 12. History of the United States since 1865. Need not be taken in sequence. Prerequisite: Sophomore standing.

History 101-102. History of Western Culture. Each three credits.

The nature of civilization, the development of the practical and fine arts, of government and of human communication:

- 101. from Prehistory through the Roman period; 102. from the Roman period to contemporary times. Need not be taken in sequence.

History 103-104. Economic History of Europe. Each two credits.

- Development of agricultural, commercial, and industrial institutions of Europe: 103. From the fourth century to 1750; 104. from 1750 to the present. Need not be taken in sequence.

History 105. Greek History. Three credits.

The history of Ancient Greece.

History 106. Roman History. Three credits.

The history of Ancient Rome through the Republic and Empire.

History 107. 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 1, or consent of instructor.

- History 108. 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 2, or consent of instructor.
- History 109. The Renaissance.** Two or three credits.
The politics, the arts, the literature, and recovery of the classics during the fourteenth and fifteenth centuries.
- History 110. The Age of the Reformation.** Two or three credits.
The Protestant and Catholic reformations of the sixteenth and seventeenth centuries.
- History 111. The French Revolution and Napoleon.** Two credits.
The revolutionary period in Europe and the beginnings of our modern democratic ideals.
- History 112. History of France since 1815.** Two credits.
The political, economic, and cultural history of France from the Congress of Vienna to the present.
- History 113-114. History of England.** Each two credits.
113: Tudor and Stuart England; the beginnings of modern England, 1485-1714; **114:** England since 1714. Need not be taken in sequence.
- History 115. England in the Middle Ages.** Two credits.
History of England from Anglo-Saxon times to 1485.
- History 116. Expansion of Europe, 1415-1660.** Two or three credits.
European powers and their colonies during the age of the great discoveries.
- History 117. 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 119. History of Recent World Politics.** Three credits.
Selected topics in world history, 1919 to the present. Prerequisite: History 4 and 12.
- History 120. European Diplomatic History Since 1856** Two or three credits.
A survey of the major problems in European Diplomacy from the Crimean War to the present day.
- History 121-122. History of Latin America.** Each two or three credits.
121: Colonial Latin America from the discoveries to independence. **122:** Recent Latin America from independence to the present. Need not be taken in sequence.
- History 124. 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 131. Africa South of the Sahara.** Two credits.
History of European contact with Africans in the 19th and 20th centuries; policies of assimilation and separate development; the independence of African states; federation and pan-Africanism.
- History 135-136. The Far East.** Each two or three credits.
135. A survey of Far Eastern civilizations, their institutional and cultural development to the nineteenth century; **136.** The Far East in the nineteenth and twentieth centuries. Need not be taken in sequence.

History 141. Russian History and Civilization. Three credits.
From the 10th to the 18th century; an analysis of Kievan Russia, early Russian principalities, and the rise of Moscow, with emphasis on Byzantine and Mongolian influences.

History 142. Russian History and Civilization. Three credits.
The 19th and 20th centuries; Tsarist Russia, its background institutions and problems; a survey of the Communist Revolution, the U.S.S.R. between the two World Wars, in World War II, and after.

History 143-144. Eastern and Central Europe. Each three credits.
143. History of eastern and central Europe from origins to the Congress of Vienna; **144.** History of eastern and central Europe in the nineteenth and twentieth centuries. Need not be taken in sequence.

History 151. Representative Americans. Two credits.
Prerequisites: History 11-12.

History 152. Economic History of the United States. Three credits.
Prerequisites: History 11-12. Same as Economics 152.

History 153-154. Constitutional History of the United States. Each two or three credits.
153: Origin and elaboration of colonial political theories and practices; evolution of guarantees for personal liberty; constitutional development through the Civil War. Prerequisite: History 11, or consent of instructor; **154:** Constitutional development since the Civil War. Prerequisite: History 12, 153; or consent of instructor. Same as Political Science 153-154.

History 155-156. American Social and Intellectual History Each two or three credits.
The development of social and intellectual movements in the United States: **155:** to 1865; **156:** Since the Civil War. Need not be taken in sequence.

History 157. Colonial Era. Two credits.
History of the American Colonies to the American Revolution. Prerequisite: History 11.

History 158. Era of the American Revolution. Two credits.
History of the transition from colony to republic, 1763-1787. Prerequisite: History 11.

History 160. The Era of Controversy. Two or three credits.
The history of the United States from 1840 to 1860. Prerequisite: History 11.

History 161. Civil War and Reconstruction. Two or three credits.
The history of the United States from 1860 to 1877. Prerequisites: History 11-12.

History 162. United States History, 1877-1920. Three credits.
The age of enterprise, world power, and reform. Prerequisite: History 12.

History 163. United States History, 1920-1940. Two credits.
Social, economic, intellectual, constitutional, political, and diplomatic history of the Post-World War, Great Depression, and New Deal periods in United States history. Prerequisite: History 12, or consent of instructor.

History 164. United States History since 1940. Two credits.
Social, economic, intellectual, constitutional, political, military, and diplomatic history of the United States' participation in World War II, and of peace and war since. Prerequisite: History 12, or consent of instructor.

History 165. History of American Diplomacy since 1881. Three credits.
Relations of the United States with the rest of the world from 1881 to the present.

History 166. Wisconsin.

Two or three credits.

History of Wisconsin from 1634 to the present.

History 199. Special Work.

Upper class student majoring or minoring in History may, by agreement with their dean and 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.

Home Economics

Mrs. Jones, chairman; Mrs. Baird, Mrs. Clifford, Miss D. Davis, Miss Doescher, Mrs. Harris, Miss Hill, Miss McDonald, Miss Sands.

A. A major in Home Economics in the School of Education consists of:

1. Core courses in Home Economics to total 21 credits as follows:
Home Economics 1, 2, 4, 11, 164, 171, 185.
2. Additional required Home Economics courses to total 19 credits:
Home Economics 3, 5, 12, 16, 33, 123, 145, 153.
3. Required collateral courses: Biology 1, 24; Chemistry 1, 10; Economics 11; Education 191.
4. Sociology 11 is recommended but not required.

NOTE: A minor is not required for students majoring in 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 a Chemistry minor is elected, Chemistry 5-6 or 7-8 should be substituted for Chemistry 1.

If a Biology minor is elected, Biology 3-4 should be substituted for Biology 1.

B. A major in Home Economics in the School of Applied Arts and Science consists of:

1. Core courses in Home Economics to total 21 credits as follows: Home Economics 1, 2, 4, 11, 164, 171, 185.
2. Elective courses in Home Economics to total at least 19 credits; selected with the consent of the Chairman of the Department.
3. Required collateral courses: Biology 1, 24; Chemistry 1, 10; Economics 11.

C. A minor in Home Economics consists of: at least 22 credits in Home Economics, including Home Economics 1, 2, 4, 11, 164, 171, and three credits of Home Economics electives.

NOTE: The Home Economics Department does not offer a teaching minor. A major in Food and Nutrition is available in four curricula:

A. General:

1. Core courses, 21 credits: Home Economics 1, 2, 4, 11, 164, 171, 185.
2. Other Home Economics courses, 19 credits selected from the following:
Home Economics 5, 145, 146, 147, 148, 153, 155, 157, 177, 181, 183.
3. Required collateral courses, 30 credits: Biology 1, 24, 110; Chemistry 5-6 or 7-8, 10; Economics 11.

B. Dietetics:

1. Core courses, 16 credits selected from the following, with Home Economics 4 required: Home Economics 1, 2, 4, 11, 164, 171, 185.
2. Other required Home Economics courses, 24 credits: Home Economics 5, 145, 147, 148, 153, 155, 157, 177, 183.
3. Required collateral courses, 34 credits: Biology 1, 24, 110; Chemistry 5-6 or 7-8, 10; Economics 11; Business 11.

4. Choice of one course each from a and b, 5 or 6 credits:
 - a. Business 170 or Psychology 17.
 - b. Education 105Q or 111 or 112.

C. Food Service Management:

1. Core courses, 16 credits selected from the following, with Home Economics 4 required: Home Economics 1, 2, 4, 11, 164, 171, 185.
2. Other required Home Economics courses, 24 credits: Home Economics 5, 145, 147, 148, 149, 153, 155 or 157, 177, 183.
3. Required collateral courses, 40 credits: Biology 1, 24, 110; Chemistry 5-6 or 7-8, 10; Economics 11; Business 11, 111, 170.
4. Choice of one of the following, 3 credits: Business 120, 140, Psychology 17; Economics 122.

D. Experimental Food and Nutrition:

1. Core courses, 16 credits selected from the following, with Home Economics 4, 164, and 171 required: Home Economics 1, 2, 4, 11, 164, 171, 185.
2. Other required Home Economics courses, 24 credits: Home Economics 5, 145, 146, 148, 153, 155, 157, 181 or 183, and two credits of electives in Home Economics.
3. Required collateral courses, 30 credits: Biology 1, 24, 110; Chemistry 5-6 or 7-8, 10; Economics 11.
4. Choice of one of the following, 2 or 3 credits: Education 105Q, 111, 112; Economics 130.

Home Economics 1. 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.

Home Economics 2. Selection of Textiles and Clothing.

Three credits.

Economic, social, and psychological aspects of textiles and clothing for the individual and the family.

Home Economics 3. Clothing Construction.

Two credits.

Study and application of basic principles of clothing construction. Four hours laboratory per week. Prerequisite: Home Economics 2 or consent of the instructor.

Home Economics 4. 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 5. Human Nutrition and Food Preparation Laboratory.

Two credits.

Basic ingredients and techniques used in food preparation with emphasis on theory; meal preparation stressing nutritive value and the management of money and time. Four hours laboratory per week. Prerequisite: Home Economics 4 or concurrent registration.

Home Economics 11. Housing and Home Furnishings.

Three credits.

Matrix aspects, regulations, psychological, and economic factors of housing; design elements applied to space relationships and furnishings to create a satisfying environment. Prerequisite: Home Economics 1 or Art 1.

Home Economics 12. Housing and Home Furnishings Laboratory.

Two credits.

Studio problems in housing and home furnishings; field trips. Four hours laboratory per week. Prerequisite: Home Economics 11 or concurrent registration.

Home Economics 16. Family Health and Home Care of the Sick. One credit.
Principles of individual and family health techniques applicable to care of sick and injured at home. Prerequisite: Sophomore standing.

Home Economics 33. 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 123. 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 2, 33; or consent of the instructor.

Home Economics 124. 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 123 or consent of the instructor.

Home Economics 145. 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 4; Chemistry 1 or 5 or 7.

Home Economics 146. 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 4, Chemistry 1 or 5 or 7, and Biology 110; or consent of the instructor.

Home Economics 147. 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 4 or consent of the instructor.

Home Economics 148. Quantity Food Production. Three credits.
Principles and application of 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 4, 183; or consent of the instructor.

Home Economics 149. 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 147, 148; or consent of the instructor.

Home Economics 151. 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. Not to be counted toward a Home Economics major.

Home Economics 153. Nutrition.

Three credits.

Dietary standards for individuals of different ages, sexes, and occupations; the contributions which different foods make to body needs; the planning of balanced meals for the family on cost levels; and a brief introduction to planning diets for disorders in nutrition. Prerequisites: Biology 24, Chemistry 10, Home Economics 4.

Home Economics 155. 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 4, 153; Chemistry 10.

Home Economics 157. 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 4, 153; Chemistry 10; or consent of the instructor.

Home Economics 164. Human Development and the Family.

Four credits.

Human growth and development; family living and the guidance of children; interactions of the individual and his family throughout the life cycle; the role of the family in society. Observations of children required. Prerequisite: Psychology 11 or consent of the instructor.

Home Economics 171. Family Economics and Management.

Three credits.

Factors important in individual and family buying; evaluation of consumer information; basic ideas of management and economics in relation to effective use of available resources of the home, the community, and the economy. Prerequisite: Home Economics 2, 4, and Economics 11; or consent of the instructor.

Home Economics 177. Institution Purchasing.

Two credits.

Principles and methods of purchasing food in quantity. One hour lecture, two hours laboratory per week. Prerequisite: Home Economics 4 or consent of the instructor.

Home Economics 181. Equipment for the Home.

Two credits.

Selection, use, and care of household equipment. Lecture and laboratory, four hours per week. Prerequisite: Home Economics 171 or consent of the instructor.

Home Economics 183. 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 4 or consent of the instructor.

Home Economics 185. 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 Home Management House open to seniors and second semester juniors; one class period per week. Prerequisite: Home Economics 145.

Home Economics 190. 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 199. Special Work.

Upper class students majoring in Home Economics may, by agreement with their dean and the chairman of the Home 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.

Journalism

Mr. Houlihan.

Journalism 15. Introduction to Reporting.

Three credits.

The fundamentals of recognizing, gathering, organizing, and presenting news-worthy information. Prerequisites: English 1-2.

Journalism 16. News Editing.

Three credits.

Study and practice in editorial responsibilities, such as editorial writing, copy and proofreading, photo-journalism, advertising and circulation, and page arrangement. Prerequisites: English 1-2.

Journalism 25. Publicity Media and Methods.

Three credits.

Publicity methods applied to the problems of business, community service agencies, and educational institutions; journalistic techniques of major communications media applied to such public relations devices as publicity releases, feature stories, letters, informational pamphlets, and other materials. Prerequisite: Sophomore standing.

Latin American Studies

Mr. Knowlton, adviser.

A. A minor in Latin American Studies consists of 24 credits:

1. At least 16 credits selected from among the following Latin American content courses: Art 92 (History of Latin American Art) 2 credits; Geography 101 (Middle America) 2 credits; Geography 129 (South America) 3 credits; History 121 (Colonial Latin America) 2 or 3 credits; History 122 (Recent Latin America) 2 or 3 credits; History 124 (Independent Mexico) 2 or 3 credits; Sociology 111K (Peoples of Central and South America) 2 or 3 credits; Latin American Studies 199 (Special work) 0 to 3 credits.
2. The remaining credits shall be in related courses chosen in consultation with the Latin American Studies adviser.
3. Eight credits of Spanish beyond the first year level is strongly recommended.

B. A (proposed) major in Latin American Studies consists of 34 credits, 24 of which shall be selected from "content" courses from three fields besides Spanish, and the remainder in "related" courses.

Four semesters of college Spanish beyond the first year level are required.

Latin American Studies 199. Special Work.

Upper class students majoring or minoring in Latin American Studies may, by agreement with their dean and 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.

Lecture-Forum Course

Lecture-Forum 1-2. 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 semester'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 requisite for "Pass".

Library Science

Mr. Kampenga, chairman; Mr. Brey, Mr. Ferguson, Mr. Gillesby, Miss Mason, Miss Padden, Mr. Przybylski, Mrs. Soroka, Mrs. Steffen, Mrs. Thomas.

A minor in Library Science consists of 15 credits: Library Science 102, 103, 104, and 105; English 21 or 23, and 104. The completion of these 15 credits fulfills the State requirements for certification of teacher-librarians.

Library Science 102. Introduction to Reference. Two or three credits.

Materials of reference that are the basis of a library reference collection and service, and practice in their use as a source of information and an aid to study and teaching.

Library Science 103. Introduction to Book Selection. Two or three credits.

Reading interests and study needs of people, with particular emphasis on elementary and secondary school problems; study and practice in the use of book reviewing mediums, the book selection aids, basic bibliographies, and book trade guides essential to a library's acquisition of materials.

Library Science 104. Introduction to the Cataloging and Classification of Books.

Two or three credits.

Meaning, purpose, and value of cataloging and classification of library materials with particular emphasis on school library applications; laboratory practice in the technical and mechanical processes which are essential in making books more serviceable to readers. Prerequisites: Library Science 102 and 103, or consent of the instructor.

Library Science 105. The School Library. Two or three credits.

The function of the library in the school, stressing the responsibilities of the library in carrying out the aims of the school program; problems of support, housing, standards of service, student service, practical care and repair of books.

Library Science 110. Introductory Bibliography. Two credits.

Training in practical bibliography, and in making better use of the aid which libraries can give through printed bibliographies and a wider acquaintance with the materials of reference. The training is designed to meet the methods expected to be within the prerequisite experience of graduate students.

Mathematics

Mr. Boylan, chairman; Mr. Cable, Mr. Carlson, Mr. Conlon, Mr. Daqqaq, Mrs. Epple, Mr. J. Johnson, Mr. Liu, Mr. Mages, Mr. Miller, Mr. Rice, Mr. Thoyre, Miss Treuenfels, Mr. Weiler.

A. **A major in Mathematics** consists of Mathematics 7, 9, 11, 12, (or equivalent), and at least 18 credits in courses numbered 100 or above. (For students entering with advanced standing in mathematics, Mathematics 9 will be the initial course.)

B. **A minor in Mathematics** consists of Mathematics 7, 9, 11, (or equivalent), and at least 10 credits from among these courses: Mathematics 12 and courses numbered 100 or above. (For students entering with advanced standing in mathematics, Mathematics 9 will be the initial course.)

Any exceptions to the above requirements must be approved by the chairman of the department.

Definition: An acceptable high school unit in mathematics is one year's work with a grade of C or better, excluding "general mathematics."

General requirement: One semester of college mathematics is required for the Bachelor of Science degree in the School of Letters and Science. Exemption will be granted if the student presents two and one-half acceptable units of high school mathematics.

In the other schools the student has a choice between one semester of college mathematics or one year of a foreign language. Exemption will be granted if the student presents two and one-half acceptable units of high school mathematics or two acceptable units of a foreign language.

Mathematics 1. Basic Mathematics.

Four credits.

A one-semester course designed to give the student with little or no background a knowledge of mathematics as a language. Open only to those who present less than two acceptable units of high school mathematics. Not to be counted toward a Mathematics major or minor.

Mathematics 2. Essentials of Mathematics.

Four credits.

A one-semester course presenting mathematics as a language, designed for students who have some background in mathematics as evidenced by their high school record. Open to all who are not exempt from the general requirement in mathematics and who present at least two units of acceptable high school mathematics; others may take the course with the consent of the chairman of the department. Not to be counted toward a Mathematics major or minor.

Mathematics 5. Algebra and Trigonometry.

Four credits.

A beginning college course in algebra and trigonometry. Prerequisite: One acceptable unit each of high school algebra and geometry, or consent of the chairman of the department in case the student has lesser background. Not open to students who qualify for Mathematics 7.

Mathematics 6. Trigonometry and Analytic Geometry.

Four credits.

A continuation of Mathematics 5 with emphasis on trigonometry and plane analytic geometry. Prerequisite: Mathematics 5, or consent of the chairman of the department. Not open to those who qualify for Mathematics 9.

Mathematics 7. Integrated Algebra and Trigonometry.

Four credits.

Axiomatic development of the number system and algebraic operations; concepts of trigonometry essential to subsequent mathematics courses. Prerequisite: Three acceptable units of high school mathematics or consent of the chairman of the department in case the student has lesser background.

Mathematics 9. Analytic Geometry and Calculus I.

Four credits.

Analytic geometry of the plane; differentiation and integration of algebraic functions with some application; differentiation of transcendental functions. Prerequisite: Mathematics 6 or 7, or four units of high school mathematics with a grade of B or better.

Mathematics 10. Mathematics of Finance.

Four credits.

Simple and compound interest, equivalence, annuities, amortization, sinking funds, bonds, depreciation, life insurance. Not to be counted toward a Mathematics major or minor, or toward the general requirements for a degree. Prerequisite: Mathematics 5 or 7, or eligibility for Mathematics 9.

Mathematics 10S. Mathematics of Finance.

Three credits.

Similar to Mathematics 10, treating such topics as interest, annuities, amortization, bonds, depreciation, etc. It is shortened and designed for teachers and others who are interested in the application of mathematics to the field of elementary finance. Summer Sessions only. Not to be counted toward a Mathematics major or minor, or toward the general requirements for a degree. Prerequisite: One semester of college algebra, or consent of instructor.

- Mathematics 11. Analytic Geometry and Calculus II.** Four credits.
Analytic geometry of the plane continued; integration techniques; additional applications. Prerequisite: Mathematics 9.
- Mathematics 12. Analytic Geometry and Calculus III.** Four credits.
Introduction to solid analytic geometry; differentiation of functions of several variables; multiple integrals; series of functions and applications. Prerequisite: Mathematics 11.
- Mathematics 20. Elementary Surveying.** Four credits.
Theory and practice in measuring distances; introduction to the use of level, transit, plane table, and compass; principles of land survey and map making; two hours lecture, six hours laboratory per week. Not to be counted toward a Mathematics major or minor, or toward the general requirements for a degree. Prerequisite: Mathematics 5, or 7.
- Mathematics 25. Elementary Mathematical Statistics.** Three credits.
Mathematical theory of the analysis of data; frequency distributions, averages, dispersion, reliability, probability, normal curve, moments, regression lines, index numbers, simple and multiple correlation, and curve fitting. Prerequisite: Mathematics 5 or 7.
- Mathematics 31. Calculus I.** Four credits.
Differentiation and integration of algebraic functions with applications to rate, maxima, minima, motion, areas, volumes; differentiation of trigonometric functions and applications. Prerequisite: Mathematics 6 or consent of the department chairman.
- Mathematics 32. Calculus II.** Four credits.
A continuation of Mathematics 31, with emphasis on the differentiation and integration of transcendental functions; methods of integration and application of the calculus to mechanics, volumes, area, arc length, polar representation; approximate integration; introduction to partial differentiation and multiple integration. Prerequisite: Mathematics 31.
- Mathematics 106. Solid Mensuration and Spherical Trigonometry.** Three credits.
Fundamentals of solid geometry in a new comprehensive manner; practical essentials of spherical trigonometry. Prerequisite: Mathematics 5 or 7.
- Mathematics 109. College Geometry.** Three credits.
Advanced topics in Euclidean geometry with emphasis on the postulational method, properties of the triangle, circle, inversion and recent geometry of the triangle; of special interest to teachers of geometry. Prerequisite: Mathematics 6 or 7.
- Mathematics 110. Non-Euclidean Geometry.** Three credits.
The historical and logical development of hyperbolic and elliptic geometry. Prerequisite: Mathematics 11 or 31.
- Mathematics 111. Theory of Equations.** Three credits.
Real and complex numbers; theorems concerning roots, coefficients, transformations of algebraic equations; methods of solution and of approximating the roots of equations; systems of linear equations. Prerequisite: Mathematics 11 or 31.
- Mathematics 112. Advanced Analytic Geometry.** Three credits.
Advanced topics in plane analytic geometry and a treatment of solid analytic geometry. Prerequisite: Mathematics 11 or 31.

Mathematics 115. Concepts of Modern Elementary Mathematics. Four credits.

Basic structures and concepts of arithmetic, algebra, and geometry from the modern viewpoint. This course fulfills the general requirements for mathematics. Not to be counted toward a mathematics major or minor.

Mathematics 115E. Concepts of Modern Elementary Mathematics. Three credits.

Basic structures and concepts of arithmetic, algebra, and geometry from the modern viewpoint. Offered in extension classes only.

Mathematics 118. Foundations of Analysis. Three credits.

The basic concepts of modern analysis: sets and mappings, connected sets, neighborhoods, open and closed sets, cluster points, compactness, continuity and uniform continuity. Prerequisite: Mathematics 11 or 32.

Mathematics 119. Advanced Calculus. Three credits.

Advanced treatment of infinite series, partial derivatives, exact differentials, lines, surface, and volume integrals, and generalized integrals. Prerequisite: Mathematics 12 or 32.

Mathematics 120. Differential Equations. Three credits.

An introductory course treating ordinary differential equations of the first and second orders; linear equations with constant co-efficients; solution in series; numerical approximations; and systems of ordinary equations, with certain applications. Prerequisite: Mathematics 12 or 32.

Mathematics 122. Abstract Algebra. Three credits.

Introduction to modern algebra; elements, sets, mapping, and operations; integral domains, fields, and polynomial domains; a modern development of the number systems through the complex number field. Prerequisite: Mathematics 11 or 31.

Mathematics 125. Probability and Statistics. Three credits.

An introduction to probability from a set-theoretic viewpoint; permutations and combinations; probabilities in discrete sample spaces; random variables and the probability functions; the properties of distributions. Prerequisite: Mathematics 11 or 31.

Mathematics 130. Matrix Algebra. Three credits.

Operations with matrices, properties and evaluation of determinants, applications of matrices and determinants, linear dependence, vector spaces, and linear and orthogonal transformations. Prerequisite: Mathematics 11 or 31.

Medical Technology

Mr. Weaver, adviser.

NOTE: Changes which have been made in the offerings of the mathematics and physics departments require a re-statement of the curriculum in Medical Technology. Students who are interested in specific details of the changes should consult the Medical Technology adviser.

A Bachelor of Science degree with a major in Medical Technology may be received by students who complete the following course of study.

A. Freshman year: Chemistry 5-6 or 7-8*; Mathematics 5-6 or 7-8, or 9; English 1-2; Social Studies (6 credits); Physical Education 1-2, or 3-4.

Sophomore year: Physics 3-4, or 31-32; History 11-12; Chemistry 15; Biology 4; Social Studies (3 credits); Elective (3 credits); Physical Education 11-12.

Junior year: Biology 24, 110, 160; Chemistry 20, 110; Speech 1; Humanities (9 credits).

B. Following completion of the courses listed in paragraph A, the student will attend an approved school of medical technology. Upon the successful completion of his college studies with an overall grade point average of 2.25, and of his technical studies, and upon the recommendation of the pathologist in charge of the school and the recommendation of the University faculty, he is awarded a Bachelor of Science degree with a major in Medical Technology.

*Students entering the medical technology program should have:

a) Adequate preparation in high school chemistry and algebra, or b) High school algebra and Chemistry 1. All Medical Technology majors should then take Chemistry 7-8.

Music

Mr. Marple, chairman; Mr. D. Blair, Mr. Braeuer, Mr. Cantrick, Mr. Cohan, Mr. Cultice, Mrs. Gessaman, Mr. McLott, Miss Resch, Mr. Rupert, Mr. Thomas, Mr. VanNuys, Mrs. Wray.

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.

These scholarships are awarded for four years contingent upon maintenance of a satisfactory record. They are valued at \$400. This amount offsets the cost of two courses in individual applied music per semester for eight semesters: one course in the student's major performing medium and one in his minor performing medium.

In order to remain eligible for the scholarship, the student must

1. Major in Music; 2. Carry at least the normal study load of 15 semester hours; 3. Maintain a semester average of 2.00 in academic subjects and 3.00 in music subjects; and 4. Participate in at least two major ensembles (band, orchestra, choir).

A student who loses a scholarship through failure to fulfill these conditions may apply for renewal of the scholarship after the lapse of one semester, provided he can again fulfill the conditions at that time. Such renewal may be made only once.

The following organizations are open to all students, on either a credit or an extra-curricular basis: Band, Brass Choir, Choraliars, Choir, Madrigals, Opera Workshop, Chamber Orchestra, Woodwind Ensemble.

A. Bachelor of Music Degree in the School of Education.

I. English and Speech:

- a. English 1-2, 6 credits.
- b. Speech 1, 2 credits.

II. History 1-2, or 3-4, or 11-12; 6 credits.

III. One of the following:

A. Foreign Language, 8 credits.

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

B. Mathematics, 4 credits.

This requirement may be satisfied by two and one-half acceptable units of high school mathematics. An acceptable unit is one year of work with a grade of C or better, excluding "general mathematics."

- IV. Social Studies, 9 credits.
Work in the social studies must include courses in at least two of the following fields: cultural geography, economics, history (in addition to II, above), political science, psychology, sociology, Conservation 111.
- V. Natural science, 10 credits.
A continuous year course in one science, or two of the one semester science courses numbered 1.
- VI. Humanities, 9 credits, selected so as to include courses in at least two of the following groups:
- A. History and appreciation of art, music, theater; history of music, theater.
 - B. Literature. (If Introduction to Literature or the survey course in American Literature or in English Literature is selected, the full year course must be completed to be credited on this requirement.) Speech 31 and 32 (Dramatic Literature) may be used to meet this requirement.
 - C. Philosophy (logic and philosophy of science excluded), colloquium.
- VII. Physical Education, 4 credits, to be taken during the first two years; exemptions may be granted by the Physical Education Department for certain reasons.
- VIII. Education, 20 credits, as follows: Education 104N, 105S, 111, 112, 198 (10 credits).
- IX. Music, 60 credits.
- A. Instrumental emphasis:
 1. Theory, 16 credits: Music 10, 11, 20, 21, 30, 110, 130, 131.
 - *2. Applied Music (major), 12 credits.
 3. Applied Music (minor), 4 credits.
 4. Music Literature, 10 credits: Music 23, 24, 140, 141.
 5. Class Applied Music, 8 credits.
 6. Conducting, 2 credits: Music 108.
 7. Music electives, 8 credits, from at least two of the following groups:
 - a. Music 30, 110, 113.
 - b. Music 144, 151, 152, 153, 154.
 - c. Music 17K, N, M, P.
 - d. Music 118.
 - B. Vocal emphasis:
 1. Theory, 12 credits: Music 10, 11, 20, 21, 30, 110.
 - *2. Applied Music (major), 12 credits.
 3. Applied Music (minor), 6 credits.
 4. Music Literature, 12 credits: Music 23, 24, 140, 141, 144.
 5. Class Applied Music, 4 credits.
 6. Opera Workshop, 4 credits.
 7. Conducting, 2: Music 108.
 8. Music electives, 8 credits, from at least two of the following groups:
 - a. Music 30, 110, 113.
 - b. Music 151, 152, 153, 154.
 - c. Music 17K, 17L.
 - d. Music 118.
 - e. Music 135.
- X. A minimum of 120 credits is required in addition to the required Physical Education (124 credits, total). At least 40 credits must be in courses numbered 100 or above.
- * A proficiency grade of 5 must be earned on the major instrument before

student teaching. When piano is not the major applied area, it will automatically be the minor applied area. A piano proficiency grade of 4 is required for the vocal emphasis, and a piano proficiency grade of 3 is required for the instrumental emphasis.

B. Bachelor of Music Degree in the School of Fine Arts.

All general requirements for a Bachelor of Science degree in the School of Applied Arts and Science will be completed along with the following credits in Music:

1. Theory, 12 credits: Music 10, 11, 20, 21.
2. Theory electives, 4 credits: Music 113, 130, 131.
3. Applied music, 12 credits. (Piano, when not the major applied area, must be taken for 4 credits or to grade 3, whichever is reached first.) A proficiency grade of 5 must be earned on the major instrument before graduation.
4. Ensemble, 8 credits.
5. Music literature, 16 credits: Music 23, 24, 140, 141, and 6 credits of electives.
6. Music electives from at least two of the following groups, 8 credits:
 - a. Music 30, 110.
 - b. Music 7J to 7X.
 - c. Music 5G to 5Z.

C. Bachelor of Music in Music Literature in the School of Fine Arts:

All requirements for a Bachelor of Arts or a Bachelor of Science degree will be completed along with the following credits in Music:

1. Theory, 12 credits.
2. Theory electives, 4 credits: Music 113, 130, 131.
3. Applied music (major), 12 credits. A proficiency grade of 5 must be earned on the major instrument before graduation. If piano is not the major instrument, a proficiency grade of 4 on piano is required, in addition to the proficiency on the major instrument.
4. Ensemble, 8 credits.
5. Music literature, 24 credits: Music 23, 24, 140, 141, 2 or 144, 151, 152, 153, 154.

D. A minor in Music consists of 22 credits, as follows:

1. Music 10, 11, 23, 24. — 10 credits.
2. Six credits of Music 5 and 15.
3. Six credits of electives from at least two of the following groups:
 - a. Music 4K, 4P, 4N, 17K.
 - b. Music 141, 144, 151, 152, 153, 154.
 - c. Music 20, 21, 30.

Music 1. Appreciation and History of Music.

Three credits.

A survey of the development of music, stressing the elements of musical 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.

Music 2. American Music.

Two credits.

A survey of music from the time of the Pilgrims to the present, with special emphasis on Jazz and its influence on contemporary music.

Music 4. First Year Ensemble.

Each one credit.

Admission by try-out.

4K - Choir; L - Women's Glee Club; M - Men's Glee Club; N - Chamber Orchestra; P - Band.

- Music 5. Beginning Applied Music.** Each two credits.
 5G - Piano; H - Organ; J - Voice; K - Percussion; L - Violin; M - Viola;
 N - Cello; P - Bass; Q - Clarinet; R - Flute; S - Oboe; T - Bassoon; U -
 Saxophone; V - Trumpet; W - Horn; X - Baritone; Y - Trombone; Z - Tuba.
- Music 7. Class Applied Music.** Each two credits.
 The elements of each medium listed, taught by class participation and
 observation; two hours per week.
 7G - Piano; J - Voice; K - Percussion; L - Violin; M - Low Strings; Q -
 Clarinet; S - Conical and Double Reeds; T - Trumpet; X - Low Brass.
- Music 10-11. Elementary Theory.** Each three credits.
 10. Fundamental elements of music — pitch, scales, rhythm and meter;
 basic skills, including sight-singing and dictation.
 11. A continuation of 10, with the introduction of part-writing principles
 involving all triads and seventh chords in the contrapuntal harmonic practices
 of the eighteenth century.
- Music 12. Music in Recreation.** Two credits.
 Recreational relation of music to community activities; work with barber-
 shop quartets, folk dancing, music for playgrounds, community singing and
 recreational instruments such as the ukulele and recorder. Prerequisite: Con-
 sent of instructor. Not to be counted toward a Music major or minor or toward
 the Bachelor of Music degree.
- Music 14. Second Year of Ensemble.** Each one credit.
 See Music 4 for the subdivisions of this course. Prerequisite: Music 4.
- Music 15. Second Year of Applied Music.** Each two credits.
 See the statement under Music 5. Prerequisite: Music 5.
- Music 17. Small Ensembles.** Each one credit.
 Prerequisite: Consent of the instructor.
 17K - Opera Workshop; L - Madrigal; M - Percussion Ensemble; N -
 Woodwind Ensemble; P - Brass Ensemble.
- Music 20. Intermediate Theory I.** Three credits.
 Eighteenth century harmonic styles, emphasizing diatonic and chromatic
 harmonies; advanced sight-singing and dictation. Prerequisite: Music 11.
- Music 21. Intermediate Theory II.** Three credits.
 Polyphonic structures as they apply to styles of the sixteenth and eighteenth
 centuries; counterpoint. Prerequisite: Music 20.
- Music 23. 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 24. 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 30. Advanced Theory I.** Three credits.
 Nineteenth century harmonic styles evolving from the eighteenth century
 styles, with special emphasis on innovations. Prerequisite: Music 21.
- Music 103. Music in the Elementary School.** Three credits.
 Techniques and theory of effective teaching skills in the primary and in-
 termediate 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 104. Third or Fourth Year of Ensemble.** Each one credit.
See Music 4 for the subdivisions of this course. Prerequisite: Music 14.
- Music 105. Third or Fourth Year of Applied Music.** Each two credits.
See the statement under Music 5. Prerequisite: Music 15.
- Music 108. Advanced Conducting.** Two credits.
Problems of organizing and coaching techniques for vocal and instrumental groups; experience in conducting the college ensembles. Prerequisite: Music 10.
- Music 110. Advanced Theory II.** Three credits.
Twentieth century compositional practices and their relationships to previous styles. Prerequisite: Music 21.
- Music 113. Composition.** Each two credits.
113K. Creative exercises in twentieth century harmonic techniques dealing with expanded tonality; independent creative writing of works in smaller forms for solo instruments and small ensembles.
113L. Creative exercises in twentieth century contrapuntal techniques, including serial techniques; independent creative writing for solo and small ensembles.
113M. Introduction to creative writing involving ensembles to include works for orchestra, chorus, and wind ensemble.
113N. Introduction to creative writing involving the dramatic forms: opera, ballet, or oratorio; introduction to electronic media as an art form. Prerequisites: Music 21, or consent of the instructor.
- Music 117. Second Year of Small Ensemble.** Each one credit.
See Music 17 for the subdivisions of this course. Prerequisite: Music 17.
- Music 118. Ensemble Technics for Public Schools.** Two credits.
The playing, singing, and conducting of literature for the junior and senior high school; secondary instruments will be used. Prerequisite: Music 7.
- Music 130. Instrumentation.** Two credits.
Modern band and orchestra instruments in regard to their ranges, playing characteristics, physical properties, history, and advisable use. Prerequisite: Music 10.
- Music 131. Orchestration.** 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 130.
- Music 135. 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 Grade IV.
- Music 140-141. History of Music.** Each three credits.
Major events and trends in history and their effect on the culture of the era, music in particular. **140:** Greeks to 1600; **141:** 1600 to the present. May be taken independently.
- Music 144. Operas and Oratorios.** Two credits.
Study of the great oratorios, masses, and other choral masterpieces from classics through the modern period.
- Music 151. Baroque Period — 1600-1750.** Three credits.
- Music 152. Classic Period — 1750-1800.** Three credits.
- Music 153. Romantic Period — 1800-1890.** Three credits.

Music 154. Post-Romantic Period — 1890 to the present. 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 199. Special Work.

Upper class students majoring or minoring in Music, or those working toward a Bachelor of Music degree, may by agreement with their dean and 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.

Philosophy

Mr. Herman, Mr. Schuler.

A minor in Philosophy consists of a minimum of 18 credits in Philosophy, four of which may be selected from Colloquium.

Philosophy 5. 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 15. Introduction to Philosophy. Three credits.

Introduction to the various fields of technical philosophy and the nature of philosophical investigation. Prerequisite: Sophomore standing.

Philosophy 21. 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 the instructor.

Philosophy 22. Symbolic Logic. Three credits.

Introduction to symbolic logic with particular attention to the application of logical systems in the natural sciences. Prerequisite: Philosophy 21, or consent of the instructor.

Philosophy 103. 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 105. Ethics and Value Theory. Three credits.

Examination of the logic of evaluational discourse as revealed in contemporary theories of ethics and value.

Philosophy 106. 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. This course may not be used to meet the "Humanities" requirement for a degree.

Philosophy 107. History of Ancient and Medieval Philosophy. Three credits.

Philosophy from the rise of Greek speculation to the decline of scholasticism; from Thales to Meister Eckhart. Prerequisite: Three credits of Philosophy, or consent of the instructor.

Philosophy 108. History of Modern Philosophy. Three credits.

Philosophy from the Renaissance to the twentieth century; from Giordano Bruno to Wittgenstein and Ayer. Prerequisite: Three credits of Philosophy, or consent of the instructor.

Philosophy 109. Contemporary Philosophy.

Three credits.

Mainstreams in twentieth century western philosophy, with special emphasis on existentialism, pragmatism, logical positivism, and philosophical analysis. Prerequisite: Three credits of philosophy, excluding Philosophy 21 and 22.

Philosophy 110. 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 the instructor.

Philosophy 120. 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 199. Special Work.

Upper class students minoring in Philosophy may, by agreement with their dean and 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; Miss Biddlestone, Mr. L. Blair, Mr. Burns, Mr. Clark, Mr. Counsell, Miss Dillin, Mrs. Freiman, Mr. Hoff, Mr. Krueger, Mr. Larsen, Mr. Quandt, Miss Rinnac, Miss Schelfhout, Miss Spring, Mr. Sutton.

A. A major in Physical Education for Women consists of 54 credits:

1. Physical Education 5, 10K, 10L, 10M, 10N, 11 or 12, 13, 14, 15, 16, 17 or 18 or 19 or 20, 52, 71, 101, 102, 103, 131, 170, 172, 174, 191, 195, 196.
2. Sufficient additional credits in Physical Education to total 54, with at least 11 credits selected from one of the following groups:
 - a. Group One — Physical Education concentration:
Physical Education 17, 18, 19, 20, 50, 143, 152, 180; Psychology 103; Psychology 115 or Sociology 115.
 - b. Group Two — Health concentration:
Physical Education 140, 152; Biology 110; Education 135.
 - c. Group Three — Elementary School Physical Education concentration:
Physical Education 20, 143; Psychology 13; Education 183, 184.
 - d. Group Four — Recreation concentration:
Physical Education 17, 18, 19, 20, 41, 142, 143; Art 5; Biology 9; Music 11; Education 183; Speech 119.
3. Collateral courses required: Biology 24, 40; Home Economics 151.
(Biology 1 and Chemistry 1 are prerequisites for Biology 24.)

B. A minor in Physical Education for both men and women consists of 22 credits in Physical Education exclusive of Physical Education 1, 2, 3, 4, 11, and 12. It includes the following:

For men and women: Physical Education 5, 13 or 14, 16, 17, 71, 143, 191; Biology 40.

For women: Physical Education 10M, 10N, 52.

For men: Physical Education 21, 22, 152.

The remaining credits in Physical Education may be selected from the following courses:

For men and women: Physical Education 13 or 14, 18, 19, 20, 41, 50, 131, 140, 152, 172, 180, 195, 196, 199.

For men: Physical Education 182, 183.

Education students majoring or minoring in Physical Education should take Education 106K as one of their techniques courses.

Physical Education 1. General Physical Education (Men) One credit.

Floor classes involving physical fitness activities and seasonal sports; swimming may be elected in place of floor classes.

Required of all Freshmen men; two hours per week.

Physical Education 2. General Physical Education (Men) One credit.

Floor classes involving self-testing, combative, and seasonal sports; swimming may be elected in place of floor classes.

Required of all Sophomore men; two hours per week.

Physical Education 3. General Physical Education (Women) One credit.

Floor classes involving physical fitness activities and seasonal sports; swimming may be elected in place of floor classes. Required of all Freshmen women; two hours per week.

Physical Education 4. General Physical Education (Women) One credit.

Floor classes involving movement fundamentals and seasonal sports; swimming may be elected in place of floor classes. Required of all Sophomore women; two hours per week.

Physical Education 5. 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 7. Physical Education for the Older Student. Two credits.

Primarily for the student over thirty years of age who wishes to elect this course in place of Physical Education 1 or 3, and 11. 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 8. Physical Education for the Older Student. Two Credits.

A continuation of Physical Education 7, primarily for the student over thirty years of age who wishes to elect this course in place of Physical Education 2 or 4, and 12.

Physical Education 10K. Foundations of Physical Education

Activities.

One credit.

Instruction in exercise, conditioning, and tactics. Three hours per week.

Physical Education 10L. Foundations of Physical Education

Activities.

One credit.

Instruction in fundamental movement patterns and basic skills. Three hours per week.

Physical Education 10M. 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 10N. Beginning Team Sports for Girls and Women.

One credit.

Instruction in basketball, soft ball, track and field; emphasis on development of playing skills. Three hours per week.

Physical Education 11-12. General Physical Education. Each one credit.

Individual and recreational activities such as archery, bowling, golf, tennis, swimming, and rhythms offered in different sections. Students may select sections as space permits, except that majors must select a section in swimming, the level to be based on the results of a proficiency test. Required of all sophomore men and women. Physical Education 31 or 32 may be substituted if they are required in the student's curriculum. Prerequisite: Junior standing.

Physical Education 13. Individual Sports. One credit.

Instruction in golf, bowling, and archery. Three hours per week. Prerequisite: Sophomore standing.

Physical Education 14. Individual Sports. One credit.

Instruction in racket sports: badminton, tennis, paddle ball, and aerial tennis. Three hours per week. Prerequisite: Sophomore standing.

Physical Education 15. Beginning Tumbling and Gymnastics. One credit.

Instruction in mat and rebound tumbling, parallel bars, balance beam, floor exercise, and vaulting. Three hours per week. Prerequisite: Sophomore standing.

Physical Education 16. Fundamentals of Rhythm and Dance. One credit.

Instruction in rhythmic structure of music and movement basic to dance forms. Three hours per week. Prerequisite: Sophomore standing.

Physical Education 17. Social Dance. One credit.

Instruction in folk, square, and ballroom dance. Three hours per week. Prerequisite: Sophomore standing.

Physical Education 18-19. Modern Dance. Each one to three credits.

Instruction in technique and composition of modern dance; practical experience in dance performance and study of dance theory. One credit for studio laboratory meeting two hours per week; one credit for active membership in Orchesis; one credit for lecture-discussion class in theory meeting two hours per week. One credit may be applied to the major under paragraph 1; other credit may be applied under paragraph 2. Prerequisite: Sophomore standing.

Physical Education 20. Dance in the Elementary School One credit.

Instruction in dance forms basic to a balanced elementary school physical education program. Three hours per week. Prerequisite: Sophomore standing.

Physical Education 21. Physical Education Theory and Practice. Two credits.

Participation in the conduct of the varied activities included in a broad program of physical education, including tactics, calisthenics and body building, apparatus, tumbling, combatives and games of low and high organization; four hours per week. Prerequisite: Sophomore standing.

Physical Education 22. Physical Education Theory and Practice. Two credits.

Participation in and theory of conducting physical education activities, individual, dual, and team sports; four hours per week. Prerequisite: Physical Education 21.

Physical Education 31. Physical Education for Lower Grades. Two credits.

Methods and materials for the teaching of physical education in the primary grades. Required of all students in the Primary curriculum. Prerequisite: Sophomore standing.

Physical Education 32. Physical Education for Upper Grades. Two credits.

Methods and materials for the teaching of physical education in the elementary grades. Required of all students in the Intermediate-Upper Elementary curriculum. Prerequisite: Sophomore standing.

- Physical Education 41. 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 50. 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 52. (Formerly 152) 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 71. 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 101. Advanced Team Sports for Girls and Women.** One credit.
Instruction in field sports and volley ball; emphasis on coaching and officiating. Three hours per week. Prerequisite: Physical Education 10M.
- Physical Education 102. Advanced Team Sports for Girls and Women.** One credit.
Instruction in basketball, softball, track and field; emphasis on coaching and officiation. Three hours per week. Prerequisite: Physical Education 10N.
- Physical Education 103. Advanced Tumbling and Gymnastics.** One credit.
Advanced techniques in competitive gymnastic activities. Three hours per week. Prerequisite: Physical Education 15.
- Physical Education 131. 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 140. 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 40 or consent of the instructor.
- Physical Education 142. Community Recreation.** Two credits.
Study of the problems involved in setting up recreation programs on a yearly basis.
- Physical Education 143. 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; supplementary to Physical Education 142.
- Physical Education 151. 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 152. First Aid Instructors. One credit.

Preparation for teaching junior, standard, and advanced first aid prescribed by American Red Cross; certificate of authorization granted on completion of course. Prerequisite: Valid advanced first aid certificate.

Physical Education 170. Kinesiology. Three credits.

Study of body movement and principles which affect movement. Prerequisite: Biology 24; Physical Education 71.

Physical Education 172. 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.

Physical Education 174. 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 24; Physical Education 71.

Physical Education 180. Tests and Measurements in Physical Education. Three credits.

Analysis and construction of tests, interpretation of data and measurement in physical education.

Physical Education 182. Theory of Football and Basketball. One credit.

Mechanics of fundamentals; technique of position play; analysis of various styles of offense and defense, strategy, conditioning, and coaching methods of football and basketball; two hours per week.

Physical Education 183. 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.

Physical Education 191. 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 195-196. Seminar in Physical Education, Health, and Recreation. Each one credit.

Current developments on physical education, health, and recreation. Prerequisite: Senior standing for students majoring or minoring in Physical Education.

Physical Education 197. Workshop in Physical Education. Three credits.

Designed to give teachers an opportunity to gather new ideas and practical experiences for use in their teaching situations; consideration given to the individual teacher and his particular problems encountered in his own school system, such as time allotment, special class situations, and characteristic problems of children.

Physical Education 199. Special Work.

Upper class students minoring in Physical Education may, by agreement with their dean and 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. Kulas, Mr. Lokken, Mr. Taylor.

A. **A major in Physics** consists of 34 credits, including Physics 10, 11, and 12 (Physics 3-4 will be accepted by the chairman of the department under certain conditions); Physics 102, 103, 107, 108, 111, and at least one credit of Physics 199; the remaining credits will be in Physics courses numbered 100 or above. Mathematics 12 is prerequisite to all courses numbered 100 or above, except Physics 102. In the education curricula, Astronomy 11 may be elected as part of the 34 credits.

B. **A minor in Physics** consists of 22 credits, including Physics 10, 11, and 12 (Physics 3-4 will be accepted by the chairman of the department under certain conditions); Physics 102, 103 or 107, 111; the remaining credits will be in Physics courses numbered 100 or above. Mathematics 12 is a prerequisite to all Physics courses numbered 100 or above, except Physics 102. In the education curricula, Astronomy 11 may be elected as part of the 22 credits.

NOTE: Physics 10-11-12 may be used to meet the general requirement for a year of laboratory science.

Physics 1. General Physics. Five credits.

Fundamental principles of physics with emphasis on applied, rather than on mathematical relations; designed for students in the Elementary Education Curriculum and in general education.

Physics 3-4. General Physics. Each five credits.

Mechanics, sound, heat, light, electricity, and magnetism; 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 college equivalent.

Physics 10. General Physics. Three credits.

Mechanics; three hours lecture per week. Prerequisite: Math 9 or 11, or concurrent registration therein, or consent of instructor.

Physics 11. General Physics. Four credits.

Heat, sound, and electrostatics; two hours lecture, one hour quiz, three hours laboratory per week. Prerequisite: Physics 10 or consent of instructor.

Physics 102. Electronics. One credit.

Basic principles of electronic circuitry and instrumentation including vacuum tubes, transistors and various semi-conductor devices. Two hours laboratory per week. Prerequisite: Physics 1, or 3-4, or 10-11-12; or concurrent registration in Physics 4 or 12; or consent of instructor.

Physics 103. Advanced Optics. Four credits.

Review of light; advanced principles of optics; three hours lecture, two hours laboratory per week. Prerequisite: Physics 12; Mathematics 12.

Physics 105. Mechanics. Three credits.

Composition, resolution, and multiplication of vectors; Newton's laws of motion as applied to rectilinear and curvilinear motions, including simple harmonic and damped vibrations; rotation of rigid bodies; moments of inertia. Prerequisites: Physics 12; Mathematics 12.

Physics 107. Electricity and Magnetism I. Three credits.

Physics 108. Electricity and Magnetism II. Four credits.

Physics 107 and 108 constitute a two-semester sequence dealing particularly with theory of electrostatics, electromagnetics, magnetic properties of materials, units, and thermo-electricity; treatment of alternating circuits, electromagnetic radiation, and Maxwell's equations; three hours lecture in each course per week; two hours of laboratory per week in 108. Prerequisite: For 107 — Physics 12, Mathematics 12. For 108 — Physics 102, 107.

Physics 111. Atomic Structure I. Four credits.

Review of the atomistic theory of matter, including atomic spectra, the Bohr atom, the Schrodinger equation, the Pauli exclusion principle, quantum theory of the periodic table. Three hours lecture, two hours laboratory per week. Prerequisites: Physics 12, Mathematics 12.

Physics 112. Atomic Structure II. Four credits.

Review of nuclear theory, including X-ray theory and spectra, nuclear structure and nuclear models, natural and induced radioactivity, alpha-decay, beta-decay, gamma-radiation, and fundamental particles. Three hours lecture and two hours laboratory per week. Prerequisite: Physics 111.

Physics 115. Thermodynamics. Three credits.

Principal concepts of thermodynamics and elementary kinetic theory. Prerequisites: Physics 12; Mathematics 12.

Physics 180. 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 is based on the needs of the particular group and on the special interest of the staff member offering the course. Open only to juniors and seniors majoring in physics or chemistry.

Physics 199. Special Work.

Upper class students majoring or minoring in Physics may, by agreement with their dean and 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.

Political Science

Mr. Fothergill, chairman; Mr. Cates, Mr. Kittel, Mr. Oster, Mr. Singh.

A. A major in Political Science consists of at least 30 credits in Political Science courses, with some courses selected from each of the four fields: United States government, comparative government, political theory, and the international field. Political Science 1 and 16 are required. At least 18 credits must be selected from courses numbered 100 or above.

B. A minor in Political Science consists of at least 18 credits in Political Science courses, including Political Science 1 and 16. Some courses must be selected from each of the four fields: United States government, comparative government, political theory, and the international field.

Political Science 1. American National Government. Three credits.

Nature and functions of the national political and constitutional system; the three great departments.

Political Science 2. American National Administration. Three credits.

A description and critical examination of American national administration; the executive departments, the independent boards and commissions, and other administrative agencies. Prerequisite: Political Science 1.

- Political Science 13. Political Parties and Elections.** Three credits.
A description and critical examination of political parties and voting behavior in the United States. Prerequisite: Sophomore standing, and Political Science 1 or consent of the instructor.
- Political Science 16. Introduction to Modern Politics.** Three credits.
A theoretical and comparative study of institutions and patterns of government, such as majority rule, representative government, bureaucracy, tyranny, totalitarianism. Prerequisite: Sophomore standing, and Political Science 1 or consent of the instructor.
- Political Science 108. Public Administration.** Three credits.
Theory and practice of public administration in the United States. Prerequisite: Political Science 2, or consent of the instructor.
- Political Science 110. 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 124. Public Finance.** Three credits.
Theories, practices, and problems of taxation; proposed tax reforms; fiscal policy. Prerequisite: Economics 11. Same as Economics 124.
- Political Science 130. 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 132. 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 140. State and Local Government.** Three credits.
Nature and functions of state and local government in the United States, with special emphasis on Wisconsin. Prerequisite: Political Science 2, or consent of the instructor.
- Political Science 146. 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 12. Same as Economics 146.
- Political Science 153-154. Constitutional History of the United States.**
Each two or three credits.
153. Origin and elaboration of colonial political theories and practices; evolution of guarantees for personal liberty; constitutional development through the Civil War. Prerequisite: History 11, or consent of the instructor.
154: Constitutional development since the Civil War. Prerequisites: History 12, Political Science 153, or consent of the instructor. Same as History 153-154.
- Political Science 155. 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. Prerequisite: Nine credits in Political Science or consent of the instructor.
- Political Science 160-161. Comparative Government.** Each three credits.
A comparative study of the governments of (160) Great Britain, France, and Germany; (161) major governments of South and Southeast Asia.

Political Science 162. Government and Politics of the Soviet Union.

Three credits.

A study of 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 170-171. Development of Political Thought. Each three credits.

170:..An analysis of the contribution of thinkers like Plato, Aristotle, St. Augustine, and Hobbes to the study of politics.

171. Main currents of political speculation from the eighteenth century to the present: liberalism, conservatism, Marxism, fascism, democratic socialism, contemporary democracy, and other recent political theories.

Political Science 180. International Organization.

Three credits.

A survey of the proposals and experiments in international organizations; the League of Nations and the United Nations. Prerequisite: Six credits of Political Science, or History 119 or 165; or consent of the instructor.

Political Science 181. International Politics.

Three credits.

Political relations among modern states; forces which motivate foreign policy; the role of power; conflict between free and totalitarian systems. Prerequisite: Six credits of Political Science, or History 119 or 165, or consent of the instructor.

Political Science 182. 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 199. Special Work.

Upper class students majoring or minoring in Political Science may, by agreement with their dean and 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.

Psychology

Mr. Harris, chairman; Mr. Beck, Mr. Lee, Mrs. Norton, Mr. Sheldon.

A. A major in Psychology consists of 30 credits, including Psychology 11, 16, 110, 120, 124 or 128, and 141. An approved course in statistics may be included.

B. A minor in Psychology consists of 18 credits in Psychology, including Psychology 11. The student is encouraged to build a broad background, including courses in biology, philosophy, and sociology.

Psychology 11. General Psychology.

Three credits.

An introductory survey course in the study of experience and behavior. Prerequisite: Sophomore standing.

Psychology 13. Psychology of Childhood.

Three credits.

Studies in child behavior and development and their implications for child-adult relationships; experience in child study methods. Prerequisite: Psychology 11.

Psychology 16. Psychology of Adjustment.

Three credits.

Nature of adjustment and the conditions related to mental health in normal persons. Prerequisite: Psychology 11.

Psychology 17. 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 11.

Psychology 103. 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 11.

Psychology 110. 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 11.

Psychology 115. Social Psychology. Three credits.

Theories, methods of investigation and research results concerned with the influence of groups and group membership upon individual behavior; the study of interpersonal relationships. Prerequisite: Psychology 11.

Psychology 120. Experimental Psychology. Three credits.

Theory of measuring human behavior; research techniques and methodology; experimental approaches to perception, learning, and social characteristics of the individual. Prerequisite: Psychology 11.

Psychology 124. 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 11.

Psychology 128. 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 11.

Psychology 135. Abnormal Psychology. Three credits.

Study of behavior disorders, including the psychoses, neuroses, character disorders, and mental deficiencies. Prerequisite: Psychology 16, or consent of the instructor.

Psychology 141. 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. Prerequisites: Psychology 120, and 124 or 128, or consent of the instructor.

Psychology 199. Special Work.

Upper class students majoring or minoring in Psychology may, by agreement with their dean and 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.

Russian

See Foreign Language.

Russian and East Central European Studies ---

Mr. Soroka, adviser.

A. A minor in Russian and East Central European Studies consists of at least 24 credits:

1. At least 16 credits selected from among the following Russian and East Central European content courses:

Geography 12 (The Soviet Union) 2 credits; History 141 (Russian History and Civilization to the End of the 18th Century) 3 credits; History 142 (Russian History and Civilization in the 19th and 20th Centuries) 3 credits; History 143 (History of Eastern and Central Europe from the Origin to the Congress of Vienna) 3 credits; History 144 (History of Eastern and Central Europe in the 19th and 20th Centuries) 3 credits; Political Science 161 (Comparative Government: Major Governments of South and Southeast Asia) 3 credits; Political Science 162 (Government and Politics of the Soviet Union) 3 credits; Political Science 182 (The Foreign Policy of the Soviet Union) 3 credits; Russian and East Central European Studies 199 (Special Work) 1 to 3 credits.

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, beyond the first year level are strongly recommended.

B. A (proposed) major in Russian and East Central European Studies consists of at least 34 credits:

1. At least 24 credits shall be selected from "content" courses from at least three fields.
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.

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 physical education) required for a degree.

Russian and East Central European Studies 199. Special Work.

Upper class students majoring or minoring in Russian and East Central European Studies, may by agreement with their dean and 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. Sigmund, adviser.

A Social Science major may be earned in either of two ways. Students in the Secondary Education curriculum should select plan B, below, in order to meet Wisconsin certification requirements for high school Social Studies teachers.

A. A Social Science major for Letters and Science students 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.

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 10, plus three credits in advanced cultural Geography.
 - c. History (except History 11-12).
 - d. Political Science.
 - e. Psychology.
 - f. Sociology.
3. Sufficient additional credits to total 45 or more, with at least 15 of the total in courses numbered 100 or above.

B. A Social Science major for students in Secondary Education consists of the following:

1. A minimum of 54 credits in Social Science with at least a minor in History, and at least one full year of course work in Economics, cultural Geography, Political Science, and Sociology, as indicated below.
 - a. History: Same as the stated minor in History, with History 11-12 to contribute to the fulfillment of the requirement.
 - b. Economics: Required — Economics 11; Elective — Economics 12, or any three-credit course numbered 100 or above approved by the Social Science adviser.
 - c. Geography: Required — Geography 10; Elective — any three-credit course in advanced cultural Geography approved by the Social Science adviser.
 - d. Political Science: Required — Political Science 1; Elective — any three-credit course numbered 100 or above approved by the Social Science adviser.
 - e. Sociology: Required — Sociology 11; Elective — any three-credit course numbered 100 or above approved by the Social Science adviser.
2. At least 18 credits of the total credits included in the major shall be in courses numbered 100 or 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, as indicated below:

1. Economics: Required — Economics 11; Elective — Economics 12 or any three-credit course numbered 100 or above approved by the Social Science adviser.
2. Geography: Required — Geography 10; Elective — any three-credit course in advanced cultural Geography approved by the Social Science adviser.
3. Political Science: Required — Political Science 1; Elective — any three-credit course numbered 100 or above approved by the Social Science adviser.
4. Sociology: Required — Sociology 11; Elective — any three-credit course numbered 100 or above approved by the Social Science adviser.

This minor will not be approved for certification as a teaching minor; it does not meet Wisconsin certification requirements for Social Studies teachers.

Sociology and Anthropology

Mr. Dixon, Mr. Fisher, Miss Marshall.

The department offers courses in Sociology, Anthropology, and Social Welfare. In addition to the required courses in the major or minor program of study, courses will be selected in consultation with a departmental advisor and will depend on whether a student is taking a Sociology, Social Welfare, or Anthropology concentration. Sociology 145 is recommended for all majors planning to do advanced work in Sociology. Students planning a teaching minor in Sociology need at least 22 credits to meet the minor requirement.

A. A major in Sociology consists of 34 credits, 18 of which will be in courses numbered 100 or above. Sociology 11, 12, 114, 115, and 146 are required. In addition a course in statistics is required.

B. A minor consists of 18 credits, nine credits to be in courses numbered 100 or above. Sociology 11 and 146 are required.

Sociology 1. Problems of Modern Society. Three credits.

Social disorganization and social problems in modern society analyzed in terms of the structure and function of society and social interaction.

Sociology 11. Principles of Sociology. Three credits.

Fundamentals of sociological investigation, dealing with the underlying premises, concepts, logic, and methods of sociology, and exploring the structural and functional aspects of a continuing society. Prerequisite: Sociology 1, or sophomore standing.

Sociology 12. Principles of Anthropology. Three credits.

The nature of anthropological study, its scope, specialties, and major concepts; physical anthropology and archeology, cultural anthropology, and the concept of cross cultural studies. Prerequisite: Sophomore standing.

Sociology 13. Criminology. Two or three credits.

Analysis and evaluation of theories of crime; influence of social factors in the development of criminality. Prerequisite: Sociology 11 or consent of the instructor.

Sociology 17. (Formerly 104) Marriage and the Family. Two or three credits.

Brief historical survey of evolution of marriage and the family; comparative study of marriage and family in primitive and civilized society; survey of research in family life and marital adjustment; survey of problems facing American marriage and family life. Prerequisite: Sociology 11 or consent of the instructor.

Sociology 100. The American Community. Two or three credits.

Industrial and agricultural backgrounds of American culture; development of American social institutions; the folkways and mores of community organization; disorganization and community social problems; social processes influencing community behavior; social agencies and planning for communities. Prerequisite: Sociology 11 or consent of instructor.

Sociology 102. Sociology in Education. Two or three credits.

Cultural change and education; a study of social forces which influence the direction of knowledge and education.

Sociology 106. Population Problems. Three credits.

Demography, population theory, trends and analysis; United States and world population. Prerequisite: Sociology 11 or Economics 11. Same as Economics 106.

Sociology 107. 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 11 or consent of the instructor.

Sociology 110. Ways of Mankind.

Two or three credits.

A general course in anthropology oriented to the major social institutions; survey of cultural organizations with emphasis on the varieties, similarities, and differences of customs, traditions, folkways, mores, and law of primitive society in contrast to modern society. Cannot be applied to a Sociology major; not open to students taking Sociology 12.

Sociology 114. Methods of Sociological Inquiry.

Two or three credits.

The scientific method and its application to society; techniques of social investigation. Prerequisite: Sociology 11 and senior standing; or consent of the instructor.

Sociology 115. Society and Personality.

Two or three credits.

Development of the social self and of interpersonal relations due to groups and institutions; emphasis on the sociological study of social psychology. Prerequisite: Sociology 11 or consent of the instructor.

Sociology 119. (Formerly 14) Corrections.

Two or three credits.

Sociological analysis of probation, parole, and prison as methods of treating offenders; effectiveness of the alternative methods. Prerequisite: Sociology 13 or consent of the instructor.

Sociology 125. (Formerly 109) 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 and propaganda. Prerequisite: Sociology 11 or consent of the instructor.

Sociology 126. (Formerly 109) Social Control.

Two or three credits.

Social and cultural processes by which people are taught, persuaded, or compelled to conform to norms and value of groups. Prerequisite: Sociology 11 or consent of the instructor.

Sociology 130, 131, 132. Population Problems and Social Change.

Each two or three credits.

An examination of population problems, social movements, social processes and institutions as a part of social change.

The course will be offered in the following categories:

130 — Latin America; 131 — Africa; 132 — Asia. Prerequisite: Sociology 11 or consent of the instructor.

Sociology 135, 136, 137, 138, 139. (Formerly 111) Area and Regional Studies in Ethnology.

Each two or three credits.

Ethnological survey of various societies in each region; emphasis on the cultural organization of societies, the significance of social change, and the influence of Western civilization on primitive society.

The course will be offered in the following categories:

135 — Peoples of Central and South America; 136 — of Africa; 137 — of Asia; 138 — of the Pacific; 139 — Indians of North America. Prerequisite: Sociology 12 or 110, or consent of the instructor.

Sociology 145. (Formerly 108) Development of Social Thought. Three credits.

Origin of social thought and its development to the 19th century. Prerequisite: Sociology 11, or consent of the instructor.

- Sociology 146. (Formerly 108) Development of Sociological Thought.** Three credits.
Sociological thought from Comte to the present. Prerequisite: nine credits in sociology including Sociology 11, or consent of the instructor.
- Sociology 160. (Formerly 165K) Social Welfare as a Social Institution.** Three credits.
History and development of social welfare; contemporary programs in public and private welfare activities. Prerequisite: Sociology 11 or consent of the instructor.
- Sociology 161. (Formerly 165L) Social Work as a Profession.** Three credits.
The goals, philosophy, concepts, and methods of social work. Prerequisite: Sociology 160 or consent of the instructor.
- Sociology 163. 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 11 or consent of the instructor. Same as Economics 163.
- Sociology 164. Social Legislation.** Two or three credits.
Statutes and court decisions on marriage, divorce, adoption, illegitimacy, poverty; the reciprocal effects of law and social work. Prerequisite: Sociology 11 or consent of the instructor.
- Sociology 166. Sociology of the Aged.** Two or three credits.
Growth of the aged population; a comparative view of the role of old people in various societies; factors that account for the changing position of the aged in society; problems of the aged and proposed solutions. Prerequisite: Sociology 11 or consent of the instructor.
- Sociology 167. 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 11 or consent of the instructor.
- Sociology 173. 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. Same as Geography 173.
- Sociology 180. Social Statistics.** Three credits.
Types of social statistics, sources of data, frequency distributions, averages, dispersions, probability, chi square, correlation; application in sociological and anthropological research. Prerequisite: Sociology 11 or consent of the instructor.
- Sociology 181. Laboratory in Social Research.** Two or three credits.
The conduct of sociological inquiry applied in a group research project at the community level. Prerequisite: Consent of the instructor.
- Sociology 190. 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. Prerequisite: Senior standing and a major in Sociology; or consent of the instructor.

Sociology 199. Special Work.

Each one to three credits.

Upper class students majoring in Sociology may, by agreement with their dean and the chairman of the Sociology 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.

199K — Sociological Analysis and Research.

199L — Social Work and Social Administration.

199M — Anthropological Theory and Method.

199N — Sociology of Knowledge.

Spanish

See Foreign Language.

Special Studies

Special Studies 9 (and 179). Speech and 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 sub-title each time the course is offered.

Special Studies 101. 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 110. 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 with the registrar 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 camp-outs. A laboratory fee is charged to cover transportation costs and miscellaneous expenses.

Special Studies 179 (and 9). Speech and Drama Workshop. One to six credits.

See the statement under Special Studies 9 (and 179).

Speech and Drama

Mr. Faulkner, chairman; Mr. Aylesworth, Mrs. Bridgeman, Mr. Burroughs, Mr. Dawson, Mr. Dowling, Mrs. Ferguson, Miss Isaacson, Mr. G. Johnson, Mr. Kramer, Miss Peet, Miss Thompson.

A. A major in Speech and Drama in the School of Fine Arts consists of 30 credits, 14 of which must be in courses numbered 100 or above. The major in the School of Education requires 34 credits.

The major may be general, or it may be concentrated primarily in one of the main divisions of the department: (1) Public Address, (2) Theater and Interpretation, and (3) Speech Pathology and Audiology (in the School of Education only).

A general major will include courses in each of the three fields. The major in the School of Education requires Speech 12 as one of the courses.

Students electing a concentration in Speech Pathology and Audiology must take Speech 8 and/or 66, 60, 62, 64, 151, 161, 190, and 195, with additional credits selected from the following: Speech 152, 160, 170, and 95, to total at least 34 credits in Speech Pathology and Audiology. In addition, students electing this concentration must meet certain course requirements in other fields: Psychology 11, 13, and 16; Education 121 and 184.

B. **A minor in Speech in the School of Fine Arts** consists of 18 credits; in the School of Education it consists of 22 credits, including Speech 12. It may be concentrated in Public Address, Theater and Interpretation, Speech Pathology and Audiology, or in General Speech, which includes courses in each of the three fields.

C. Speech 1 is required of all majors and minors.

D. Students interested in courses of study in one of the above areas may secure from the Speech Department office data sheets describing the course of study for these concentrations.

Speech 1. Introductory Speech. Two or three credits.

Development of poise, resourcefulness, and self-mastery in speech.

Speech 3. 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.

Speech 5. Appreciation and History of Theater. Three credits.

A survey of the development of theater including the modern media of television and motion pictures; emphasis on preparation for intelligent criticism as a member of an audience. Not to be counted toward a major or minor in Speech.

Speech 7. Laboratory Work (Radio-TV Workshop). One credit.

Workshop experience in announcing, writing, directing, producing, and acting in radio and television programs, and experience in control operation for radio; two hours per week.

Speech 8. Introductory Speech Correction. Three credits.

An elementary consideration of the disorders of speech and their treatment.

Speech 10. Oral Interpretation of Literature. Two credits.

Fundamentals of oral interpretation.

Speech 12. 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.

Speech 13. Fundamentals of Public Speaking. Two credits.

An intensification and refinement of the theory and practice introduced in Speech 1. Prerequisite: Speech 1.

Speech 14. Argumentation and Persuasion. Three credits.

Motivational rhetoric; practice in preparation and delivery of oral argument. Prerequisite: Sophomore standing, or consent of the instructor.

Speech 26. Laboratory Work (Dramatics or Forensics). One credit.

Practical work in dramatics or forensics, by special arrangement with the instructor. Prerequisite: Sophomore standing.

Speech 29. Theory and Technique of Acting. Three credits.

Methods of acting; relation of the role to the play as a whole; character analysis; technique and practice. Prerequisite: Sophomore standing.

- Speech 30. Introduction to Broadcasting.** Three credits.
Basic study and analysis of radio and television in our society; designed to familiarize the student with the principles involved in these two media. Prerequisite: Sophomore standing.
- Speech 31-32. Survey of Dramatic Literature.** Each three credits.
Styles, theories, and literature of world drama; emphasis on the classic heritage; representative plays studied in the context of their times. **31 — Tragedy; 32 — Comedy.** Prerequisite: Sophomore standing or consent of the instructor.
- Speech 35. History of the Classical and Medieval Theater.** Two credits.
Development of the theater and techniques of the stage in Greek, Roman, and Medieval periods. Prerequisite: Sophomore standing.
- Speech 36. History of the Renaissance, 18th and 19th Century Theater.** Two credits.
Development of the theater and techniques of the stage in the Renaissance, 18th and 19th centuries. Prerequisite: Sophomore standing.
- Speech 40. Elements of Stagecraft.** Three credits.
Elementary theory and practice in the technical aspects of theater. Prerequisite: Sophomore standing.
- Speech 50. 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: Sophomore standing.
- Speech 62. 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.
- Speech 64. Voice Science.** Three credits.
Anatomy and physiology of the voice mechanisms; application to speech improvement. Prerequisite: Sophomore standing.
- Speech 66. Normal Development of Speech and Hearing.** Three credits.
Receptive and expressive aspects of normal development of speech and hearing studied in detail and compared to factors contributing to abnormal development. Prerequisite: Sophomore standing.
- Speech 95. 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: Consent of the instructor.
- Speech 103. Advanced Public Speaking.** Two or three credits.
Additional experience in the various forms of public address, with special attention to the professional and business speaker. Prerequisite: Speech 1 or consent of the instructor.
- Speech 104. Advanced Argumentation and Debate.** Two credits.
Projects in analysis, research, ordering of arguments and evidence, refutation, composition, and delivery; study of classic debates. Prerequisite: Consent of the instructor.
- Speech 107. Psychology of Speech.** Three credits.
Principles of psychology as they apply to speech, with emphasis on experimental research.

Speech 110. Interpretive Reading. Three credits.

Principles and techniques of oral interpretation of modern forms of literature; Chamber Theater, and Readers Theater. Prerequisite: Speech 10 or consent of the instructor.

Speech 112. Speech Composition. Three credits.

Speech composition, with emphasis on theory of style, models of speech composition, and practice in speech writing and delivery.

Speech 115-116. Play Direction. Each three credits.

115: Elementary principles and practice in play production. **116:** Continuation of 115; workshop projects. Prerequisite: Speech 115, or consent of the instructor.

Speech 117. Creative Dramatics. Three credits.

Philosophy and techniques of creative drama with emphasis on its relation to creative education in general.

Speech 118. Playwriting. Three credits.

Basic elements of playwriting process: idea, structure, theme, plot, characterizations, dialogue, language; project writing and class criticism.

Speech 119. Children's Theater. Two credits.

Selection, direction, and production of plays for children's audiences.

Speech 120. Group Discussion. Three credits.

Recognition and definition of problems, critical analysis, possible solution; the function of discussion in our society.

Speech 126. Laboratory Work (Dramatics or Forensics). One credit.

Practical work in dramatics or forensics, by special arrangement with the instructor.

Speech 127. Laboratory Work (Radio-TV Workshop). One credit.

Workshop experience in directing, producing, and acting in radio and television programs, and experience in control operation for radio; two hours per week.

Speech 129. Advanced Acting. Three credits.

Critical analysis and appreciation of acting developed by lectures, reading, and discussion; presentation of individual and group scenes. Prerequisite: Speech 29 or consent of the instructor.

Speech 131. Masters of the Theater. Two credits.

An intensive study of one or more playwrights, designers, directors, or actors. 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.

Speech 132. Contemporary Theater. Three credits.

A study of the American and European theater of the last few years; representative plays from the works of contemporary dramatists; analysis of current theater trends.

Speech 140. Technical Stage Problems. Three credits.

Theory and practice in scenic design; special projects. Prerequisite: Speech 40.

Speech 151. Basic Procedures in Audiology. Three credits.

Nature of hearing; measurement and evaluation of hearing acuity; supervised testing.

Speech 152. Hearing Rehabilitation. Three credits.

Fundamentals of auditory training; methods and practice in teaching lip-reading.

Speech 160. Organic and Related Speech Disorders. Three credits.

Etiology and symptomatology of organic and related speech disorders that result in speech and language problems of children and adults; emphasis on cerebral palsy, aphasia, mental retardation, and other related language disorders. Prerequisite: Speech 8 or consent of the instructor.

Speech 161. Stuttering: Theories and Therapies. Three credits.

Intensive study of causes and treatment of stuttering; practicum required.

Speech 170. 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.

Speech 190. Senior Seminar in Speech Pathology and Audiology. Three credits.

Required of all students in Speech Pathology and Audiology. 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 in research in Speech Pathology and Audiology. Prerequisite: Consent of the instructor.

Speech 195. 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 the instructor.

Speech 199. Special Work.

Upper class students majoring or minoring in Speech may, by agreement with their dean and the chairman of the Speech 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.

Teaching Faculty

- FRIEDRICH P. ALBER (1963) Associate Professor of Foreign Language
A.B., Oberhandelsschule, Freiburg; M.A., Ph.D., University of Heidelberg
- RENE C. ALLTMONT (1966) Assistant Professor of History
A.B., A.M., George Washington University; Ph.D., University of Delaware.
- HIRAM D. ANDERSON, JR. (1960) (part time) Lecturer in Economics
Ph.B., LL.B., University of Wisconsin.
- ROBERT T. ANDERSON (1953) Associate Professor of Geography
B.S., Wisconsin State University, Eau Claire; M.S., University of Wisconsin.
- OLIVER A. ANDREWS (1960) Associate Professor of Chemistry
B.S., Wisconsin State University, Stevens Point; M.S., University of Wisconsin.
- CARROLL B. ARNDT (1965) Faculty Assistant in Geography
B.A., Kansas State University.
- DONALD L. AYLESWORTH (1964) Instructor of Speech
B.S., Western Michigan University; M.A., Michigan State University.
- MONICA E. BAINTER (1947) Professor of Physics
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- MARY ANN BAIRD (1962) (part time) Lecturer in Home Economics
B.S., Stout State University.
- JUDITH M. BANNACH (1965) Instructor of English
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- JOHN W. BARNES (1956) Associate Professor of Biology
B.S., Ohio University; M.S., University of Minnesota.
- ROBERT W. BASTIAN (1964) Assistant Professor of Geography
B.A., M.A., University of Minnesota.
- MICHAEL J. BAUM (1965) Assistant Professor of Education
B.A., M.A., University of Denver.
- FREDERICK M. BAUMGARTNER (1965) Professor of Conservation
B.A., Butler University; M.A., University of Kansas; Ph.D., Cornell University.
- LLOYD H. BECK (1964) Professor of Psychology
A.B., A.M., Oberlin College; Ph.D., Brown University.
- GEORGE G. BECKER (1957) Professor of Biology
B.A., M.A., M.S., Ph.D., University of Wisconsin.
- KEITH N. BENDER (1965) Instructor of Art
B.S., M.A., Mankato State College.
- JOHN M. BERND (1964) Professor of Education
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- VERLENE BERND (1964) (part time) Lecturer in English
B.S., Wisconsin State University, Eau Claire; M.S.L.S., University of Wisconsin.
- ESTHER M. BERNDT (1963) Faculty Assistant in Education
B.E., Wisconsin State University, Stevens Point.
- MARY LOU BIDDLESTONE (1963) Instructor in Physical Education
B.S., Pennsylvania State College, Slippery Rock; M.A., University of Minnesota.
- JOHN R. BILLINGS (1966) Assistant Professor of Philosophy
B.S., Lehigh University; M.A., Brown University; Ph.D., Syracuse University.
- DEAN G. BLAIR (1958) Associate Professor of Music
B.M., Stetson University; M.M., Eastman School of Music, University of Rochester.
- LYNN A. BLAIR (1965) Instructor of Physical Education
B.S., MacMurray College; M.S., University of Southern Mississippi.
- ALLEN F. BLOCHER (1958) Associate Professor of Physics
B.S., McPherson College; M.S., University of Nebraska.
- ROBERT O. BOWEN (1966) Assistant Professor of Physical Education
B.S., M.S., University of Wisconsin.
- KENNETH W. BOYLAN (1947) Associate Professor of Mathematics
B.S., M.A., University of Minnesota.
- MARIE BOYLAN (1965) (part time) Lecturer in English
B.A., University of Wisconsin.
- GENE M. BRACK (1966) Assistant Professor of History
B.A., Southwestern University; M.A., Peabody College; Ph.D., Texas University.
- THOMAS G. BRAEUER (1965) Assistant Professor of Music
B.A., Butler University; M.A., Columbia University.
- FRANCIS BREY (1962) Instructor
Assistant Librarian
B.S., M.A., University of Wisconsin.
- FRIEDA BRIDGEMAN (1965) Assistant Professor of Speech
B.S., Southeast Missouri State College; M.S., University of Wisconsin.
- EUGENE N. BRODHAGEN (1956) Associate Professor of Physical Education
B.S., M.S., University of Wisconsin.
- MARY JO BUGGS (1966) Instructor of English
B.S., M.A., Wisconsin State University, Stevens Point.
- WILLIAM P. BURNS (1960) Instructor of Physical Education
B.S., Wisconsin State University, LaCrosse; M.S., University of Wisconsin.
- LEE A. BURRESS, JR. (1958) Professor of English
A.B., University of Wichita; B.D., Garret Theological Seminary; Ph.D., Boston University.
- MAXINE R. BURRESS (1958) (part time) Lecturer in English
A.B., McPherson College; M.A., University of Kansas.
- LELAND M. BURROUGHS (1920) (part time) Professor Emeritus of English and Speech
B.A., Wabash College; M.A., University of Michigan.
- WILLIAM J. CABLE (1962) Associate Professor of Mathematics
B.S., Wisconsin State University, Stevens Point; M.S., University of Wisconsin; M.B.S., University of Colorado.

- ROBERT B. CANTRICK (1964) Professor of Music; Dean, School of Fine Arts
A.B., M.A., University of Rochester; Ph.D., State University of Iowa.
- ANN D. CARLSON (1965) Instructor of Business Education
B.S., Wisconsin State University, Whitewater; M.A., State University of Iowa.
- STANLEY L. CARLSON (1965) Instructor of Mathematics
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- MARK CATES (1963) Assistant Professor of Political Science
A.B., M.A., Indiana University. (on leave 1966-67)
- T.K. CHANG (1956) Professor of Geography
B.A., Lingnan University; M.A., Yenching University; Ph.D., University of Nebraska.
- ABRAHAM CHAPMAN (1964) Professor of English
University of Chicago; C.Sc., Institute of Modern Philology, Prague.
- DARRELL A. CHRISTIE (1964) Instructor of Economics
B.S., Jamestown College; M.S., University of Illinois.
- JAMES E. CLARK (1965) Assistant Professor of Physical Education
B.A., M.A., University of Michigan.
- ALICE L. CLAWSON (1966) Associate Professor of Physical Education
B.S., Ohio State University; M.A., Ph.D., Texas Women's University.
- WILLIAM H. CLEMENTS (1955) Professor of Education; Director of
Institutional Research and Studies
B.S., Wisconsin State University, Stevens Point; M.S., Ph.D., University of Wisconsin.
- FAY F. CLIFFORD (1960) Faculty Assistant in Home Economics
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- JEROME C. COATY (1963) Assistant Professor of Education
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- JACK G. COHAN (1964) Assistant Professor of Music
B.A., University of Manitoba; M.M., Indiana University.
- CLIFFORD CONE (1965) Faculty Assistant in Audio-Visual Education
B.S., Wisconsin State University, Stevens Point.
- RICHARD L. CONLON (1964) Associate Professor of Mathematics
B.S., Creighton University; M.S., University of Michigan.
- FREDERICK A. COPEL (1964) Instructor of Biology
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- HELEN M. CORNELI (1962) Instructor of English
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- DUAINE K. COUNSELL (1957) Assistant Professor of Physical Education
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- JOHN V. CRANGLE (1965) Instructor of History
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- FRANK W. CROW (1947) Professor of History
A.B., B.S., Northwest Missouri State Teachers College; Ph.M., Ph.D., University of Wisconsin.
- TOM G. CULTICE (1963) Assistant Professor of Music
B.M., University of Michigan; M.M., Indiana University.
- RIAD R. DAQQAQ (1965) Instructor of Mathematics
M.A., Southern Illinois University.

- DORIS V. DAVIS (1952) Associate Professor of Home Economics
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- MILDRED DAVIS (1928) Associate Professor of Foreign Language
A.B., M.A., State University of Iowa.
- WILLIAM M. DAWSON (1959) Professor of Speech
B.E., Wisconsin State University, Whitewater; B.S., M.S., Ph.D., University of Wisconsin.
- JOHN E. DEVINE, JR. (1964) Instructor of Education
B.A., M.A., American International College.
- EVA LOU DILLIN (1960) Assistant Professor of Physical Education
B.S., Taylor University; M.A., Michigan State University.
- GEORGE I. J. DIXON (1954) Professor of Sociology
B.A., M.A., Montana State University; Ph.D., University of Nebraska.
- ORTHULA DOESCHER (1964) Assistant Professor of Home Economics
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- FRED R. DOWLING (1960) Professor of Speech
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- RICHARD W. DOXTATOR (1962) Assistant Professor of English
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- BURDETTE W. EAGON (1950) Professor of Education; Dean, School of Education
B.S., Wisconsin State University, Oshkosh; M.S., University of Wisconsin; Ed.D., George Peabody College for Teachers.
- LYMAN ECHOLA (1965) Instructor of Geography
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- ROBERT ENGELHARD (1965) Instructor of Conservation
B.S.F., Utah State University; M.S., University of Denver.
- AROL C. EPPLE (1946) Associate Professor of Biology
B.S., M.S., University of Wisconsin.
- DORIS EPPLE (1959) (part time) Lecturer in Mathematics
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- OKON A. ESSIET (1965) Assistant Professor of Chemistry
B.S., B.A., M.S., Michigan State University; Ph.D., Saint Andrew's University College.
- RICHARD D. FACE (1963) Professor of History
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- MERL L. FARMER (1963) Associate Professor of Economics
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- SELDON FAULKNER (1965) Professor of Speech
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- GILBERT FAUST (1935) Associate Professor of Chemistry; Registrar; Director of Admissions
B.S., M.S., University of Wisconsin.
- DONALD W. FERGUSON (1964) Assistant Professor Assistant Librarian
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- COLLEEN M. GARVEY (1965) Assistant Professor of Art
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- VIRGINIA GEESAMAN (1965) Instructor of Music
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- JOHN D. GILLESBY (1958) Assistant Professor; Assistant Librarian
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- BERTHA GLENNON (1940) Associate Professor of English
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- HELEN R. GODFREY (1965) Associate Professor of Biology; Associate
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B.S., M.S., University of Wisconsin.
- JOHN N. GOLUBOWICZ (1964) Instructor of English
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- NORHMA GOMEZ (1965) Assistant Professor of Foreign Language
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- RAYMOND E. GOTHAM (1946) Professor of Education; Director, Placement
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- A. IRENE GRAY (1961) Associate Professor of Education
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- GORDON HAFERBECKER (1956) Professor of Economics; Vice President
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- WAYNE L. HALVERSON (1965) Instructor of Art
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- MILO I. HARPSTEAD (1961) Associate Professor of Conservation
B.S., M.S., South Dakota State University; Ph.D., University of Minnesota.
- ALBERT E. HARRIS (1941) Associate Professor of Psychology
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- JOSEPH S. HARRIS (1965) Associate Professor of Biology
 B.A., Emory University; M.S., University of Georgia; Ph.D., Duke University.
- RUTH HARRIS (1965) (part time) Instructor of Home Economics
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- DON A. HAY (1965) Faculty Assistant in Biology
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- THOMAS J. HAYES (1959) Assistant Professor of Education
 Ph.B., Northland College; M.S., University of Wisconsin.
- ELEANOR W. HAYS (1962) (part time) Lecturer in English
 B.A., Western Reserve University; M.A., Columbia University.
- RHYS W. HAYS (1961) Associate Professor of History
 B.A., Columbia College; B.D., Union Theological Seminary; Ph.D., Columbia University.
- ARTHUR L. HERMAN (1965) Assistant Professor of Philosophy
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- ETHEL V. HILL (1956) Associate Professor of Home Economics
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- DONALD J. HOFF (1964) Instructor of Physical Education
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- DANIEL C. HOULIHAN (1964) Assistant Professor of Journalism;
 Director of Information Services
 B.A., Saint Johns University; M.S., State University of New York, New Paltz.
- RICHARD P. HOWMILLER (1965) Faculty Assistant in Biology
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- PAULINE ISAACSON (1946) Professor of Speech
 B.E., Wisconsin State University, River Falls; M.A., University of Wisconsin; Ph.D., University of Minnesota.
- WARREN G. JENKINS (1934) Professor of History; Dean, School of Letters and Science
 B.A., Miami University; M.A., Ph.D., University of Wisconsin.
- JAMES E. JENSEN (1958) Professor of Economics
 B.A., M.A., Ph.D., University of Wisconsin.
- ALVIN M. JOHNSON (1965) Associate Professor of Geography
 B.A., State University of Iowa; M.S., University of Colorado.
- GERALD F. JOHNSON (1963) Associate Professor of Speech
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- AGNES A. JONES (1956) Professor of Home Economics
 B.S., M.S., Ph.D., University of Wisconsin.
- LAWRENCE G. KALLANDER (1959) Professor of Chemistry
 B.A., Saint Olaf College; M.S., Ph.D., Michigan State University.
- ALEXANDRA KAMINSKA (1963) Associate Professor of Foreign Language
 M.A., University of Lwow; Translator's Degree, University of Geneva.
- NELIS R. KAMPENGA (1941) Professor of Library Science; Librarian
 A.B.L.S., A.M.L.S., University of Michigan.
- JOHN D. KAPTER (1962) Assistant Professor of Geography
 B.S., M.S., Northern Illinois University.
- NORMAN E. KEATS (1956) Assistant Professor of Art
 B.S., University of Wisconsin, Milwaukee; M.S., University of Wisconsin.

- PAUL KELCH (1965) Assistant Professor of Economics
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- LULU O. KELLOGG (1953) Assistant Professor of Education
B.E., Wisconsin State University, Stevens Point; M.A., University of Chicago.
- VIVIAN A. KELLOGG (1953) Assistant Professor of Education
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- MARJORIE KERST (1948) Associate Professor of Education
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- NORMAN G. KITTEL (1965) Instructor of Political Science
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- BARBARA KNOWLTON (1965) (part time) Lecturer in Foreign Language
A.B., Indiana University.
- ROBERT J. KNOWLTON (1962) Associate Professor of History
B.A., Miami University; M.A., Western Reserve University; Ph.D., State University of Iowa. (on leave 1966-67)
- NORMAN E. KNUTZEN (1931) (part time) Associate Professor Emeritus of English
A.B., A.M., Lawrence University.
- DONALD B. KOEPPEN (1961) Professor of Business Education
B.E., Wisconsin State University, Whitewater; M.S., Ph.D., University of Wisconsin.
- IRVING KORTH (1962) Assistant Professor of Conservation
B.S., Wisconsin State University, Stevens Point; M.S., University of Wisconsin.
- HAZEL M. KOSKENLINNA (1961) Assistant Professor of English
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- ELIZABETH B. KRAMER (1964) (part time) Lecturer in English
B.A., College of William and Mary; M.A., Rutgers University.
- WILLIAM C. KRAMER (1964) Associate Professor of Speech
B.A., University of Virginia; M.A., Columbia University.
- FREDERICH A. KREMPLE (1948) Professor of History; Dean of Learning Resources
B.E., Wisconsin State University, Superior; M.A., Ph.D., University of Minnesota.
- PETER A. KRONER (1954) Professor of Foreign Language
A.B., M.A., University of Bucharest; Ph.D., University of Erlangen.
- ROBERT H. KRUEGER (1962) Assistant Professor of Physical Education
B.S., M.S., University of Wisconsin.
- GREGORY S. KULAS (1961) Instructor of Physics
B.S., M.S., Marquette University. (on leave 1966-67)
- HILDEGARD R. KUSE (1957) Professor of Education
B.E., Wisconsin State University, Stevens Point; M.A., State University of Iowa; Ph.D., University of Colorado.
- LEONARD L. LAMPERT (1959) (part time) Lecturer in Engineering Graphics
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- C. MARVIN LANG (1964) Assistant Professor of Chemistry
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- REXINE LANGEN (1965) Assistant Professor of Education
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- JOHN A. LARSEN (1964) Instructor of Physical Education;
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- FREDERICK LEAFGREN (1965) Assistant Professor; Director of Housing
B.S., University of Illinois; M.A., Michigan State University.
- S. PETER LEAHY (1964) Faculty Assistant in Foreign Language
B.S., Wisconsin State University, Stevens Point.
- GRETL B. LECHAUSSE (1965) Assistant Professor of Foreign Language
B.A., Teachers College, Munich; M.A., Frankfurt University.
- JAMES A. LEE (1963) Associate Professor of Psychology
B.A., University of Kentucky; M.A., Wayne State University; Ph.D., Purdue
University.
- ALAN D. LEHMAN (1963) Professor of English
B.S., College of the City of New York; M.A., Ph.D., University of Iowa.
- WARREN J. LENSMIRE (1965) Associate Professor of Education;
Coordinator of Student Teaching
B.E., Wisconsin State University, Stevens Point; M.S., University of Wis-
consin.
- LEON E. LEWIS (1965) Associate Professor of English
B.S., M.A., Boston College; Ph.D., University of Wisconsin.
- ROBERT S. LEWIS (1942) Associate Professor of Education; Director
of Audio-Visual Services.
B.A., B.S., M.A., University of Wisconsin.
- MATTHEW J. P. LIU (1961) Assistant Professor of Mathematics
B.S., Lafayette College; M.S., Illinois Institute of Technology.
- RONALD A. LOKKEN (1964) Instructor of Physics
B.S., Valley City State College; M.S., University of North Dakota.
- CHARLES A. LONG (1966) Assistant Professor of Biology
B.S., M.S., Kansas State College; Ph.D., University of Kansas.
- HARRY T. LOOMER, JR. (1964) Instructor of Geography
B.S., Wisconsin State University, Eau Claire; M.A., Michigan State University
- PAUL B. MACDOUGALL (1965) Faculty Assistant in Geography
B.A., University of British Columbia.
- GILBERT G. MAGES (1965) Instructor of Mathematics
B.A., Saint John's University; M.A., Bowdoin College.
- HUGO D. MARPLE (1954) Professor of Music
A.B., West Liberty State College; M.M., University of Michigan; Ph.D.,
Eastman School of Music, University of Rochester.
- BILLIE JO MARSHALL (1965) Instructor of Sociology
B.A., Southern University, M.S., Iowa State University.
- SYBLE E. MASON (1930) Associate Professor
Staff Librarian
B.E., Wisconsin State University, Stevens Point; Graduate, University of
Wisconsin Library School; M.S., University of Illinois.
- MARGARET MATRONE (1965) Instructor of English
B.A., Duke University; M.A., University of Illinois.
- BONNIE B. McDONALD (1964) Assistant Professor of Home Economics
B.S., Mississippi State College for Women; M.S., University of Tennessee.

- WILLIAM M. MCKINNEY (1963) Associate Professor of Geography
B.A., New School; M.A., Ph.D., University of Florida.
- ELVIN McLOTT (1960) Assistant Professor of Music
B.M., M.M., University of Michigan.
- JOEL C. MICKELSON (1958) Associate Professor of English
B.A., University of Minnesota; M.A., Ph.D., University of Pennsylvania.
- GORDON L. MILLER (1965) Instructor of Mathematics
B.S., Moorhead State College; M.S., North Dakota State University.
- ARLO E. MOEHLENPAH (1961) Instructor of Chemistry
B.S.Ch.E., Washington University; M.S.Ch.E., University of Minnesota. (on leave 1966-67)
- CLIFFORD A. MORRISON (1953) Professor of History
B.S., M.A., Ph.D., Ohio State University.
- DELMAR C. MULTHAUF (1966) Associate Professor of Geography
B.S., Wisconsin State University, Oshkosh; M.S., University of Wisconsin; D.Ed., Teachers College, Columbia University.
- FRANCIS MURANS (1966) Associate Professor of Economics
B.E., University of Latvia; M.B.Adm., University of Detroit; Ph.D., Michigan State University.
- RUSSELL S. NELSON, JR. (1963) Assistant Professor of History
B.A., Franklin and Marshall College; M.A., University of Wisconsin.
- JAMES G. NEWMAN (1961) Associate Professor of Conservation
B.S., Michigan State University; M.S., University of Akron.
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with dates of service

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 Bessie May Allen (1913-1952)
 Leland M. Burroughs (1920-1958)
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 Elizabeth Pfiffner DeBot (1940-1965)
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 Emily Wilson (1921-1960)

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1965-66

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Graduate Council: Mr. Kallander, chairman; Mr. Becker, Mr. Gibson, Mr. Haferbecker, Mr. Harpstead, Mr. Lehman, Mrs. Norton, Mr. Pierson; the University President.

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Mr. Wievel.

Chairman of Academic Departments:

Art: Mr. Runke.

Biology: Mr. Simpson.

Business Education: Mr. Koeppen.

Chemistry: Mr. Trytten.

Conservation: Mr. Wievel.

Economics: Mr. Jensen.

Education: Mr. Bernd.

English: Mr. Burress.

Foreign Language: Mr. Kroner.

Geography: Mr. R. Anderson.

History: Mr. Gibson, acting chairman.

Home Economics: Mrs. Jones.

Library Science: Mr. Kampenga.

Mathematics: Mr. Boylan.

Music: Mr. Marple.

Philosophy: Mr. Zawadsky.

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Physics: Miss Bainter.

Psychology: Mr. Beck.

Political Science: Mr. Woodka.

Sociology and Anthropology:

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Student Senate Advisor:

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President's Committees

Administrative Council:

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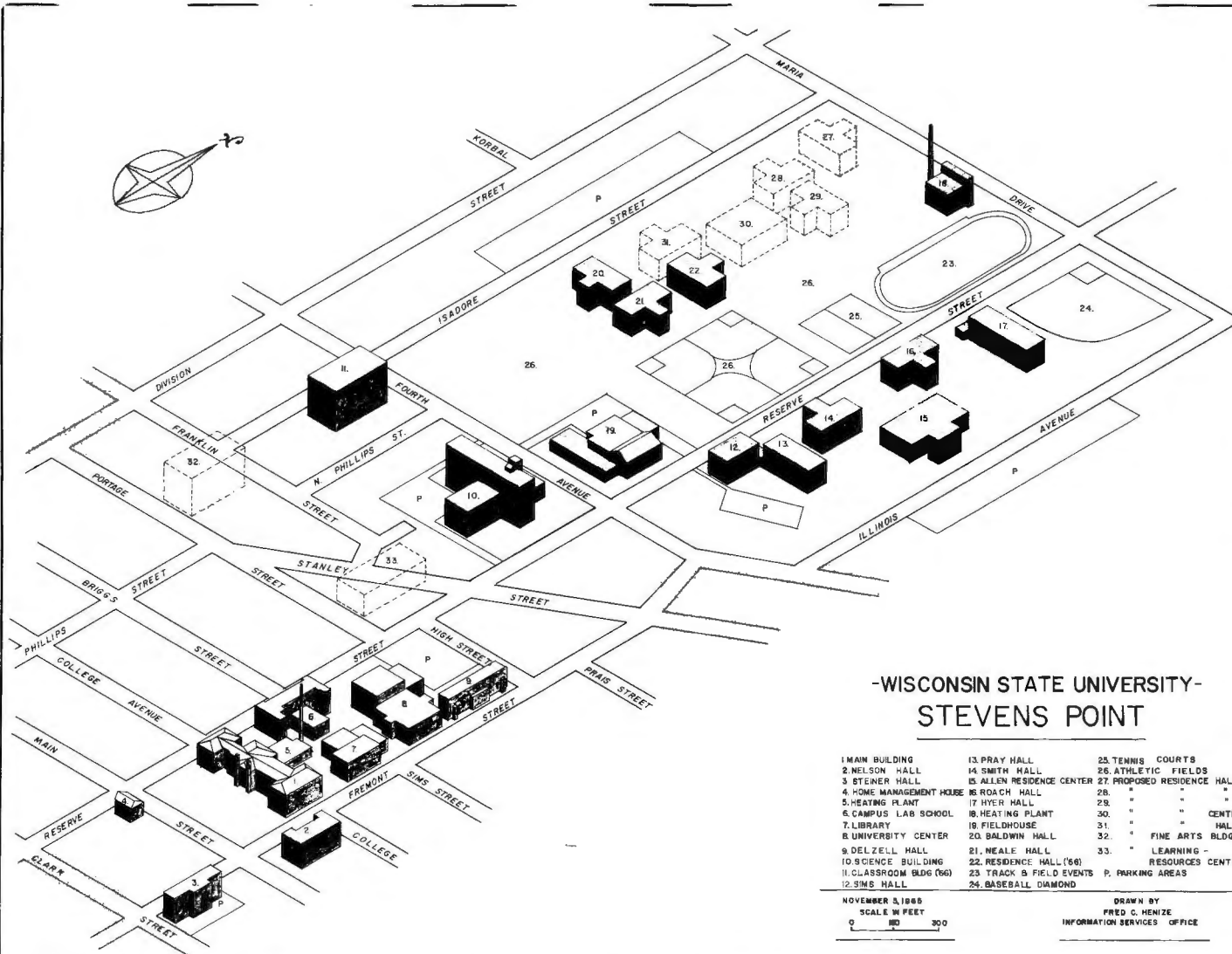
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