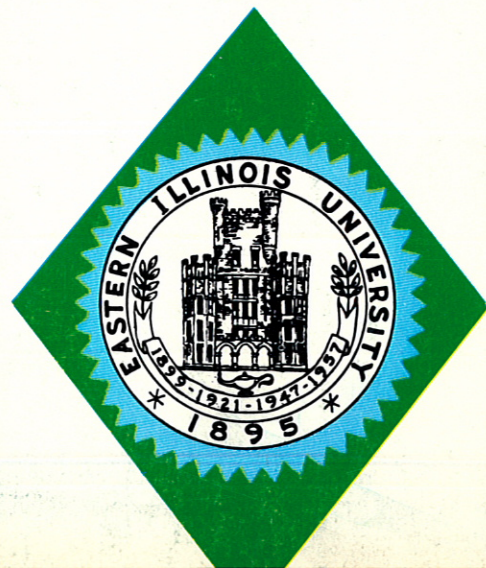


EASTERN ILLINOIS UNIVERSITY

EASTERN ILLINOIS UNIVERSITY

General Catalog — 1974



1974

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. Advisors 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 University 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 college career.

Also, it is necessary in the general administration of a college 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. When changes are announced between catalog publications, they are published in the Official Notices in the *Eastern News* and posted on the official bulletin board near the Office of the Dean of Student Academic Services. Students are responsible for knowing these changes.

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

THE UNIVERSITY POLICY ON NON-DISCRIMINATION

The University is committed to a policy of non-discrimination with respect to sex, age, color, race, religion, and national origin in all facets of University life and administration.

EASTERN ILLINOIS UNIVERSITY

CATALOG

APRIL, 1974



75th YEAR

ACADEMIC RECORD 1974-75 TERMS

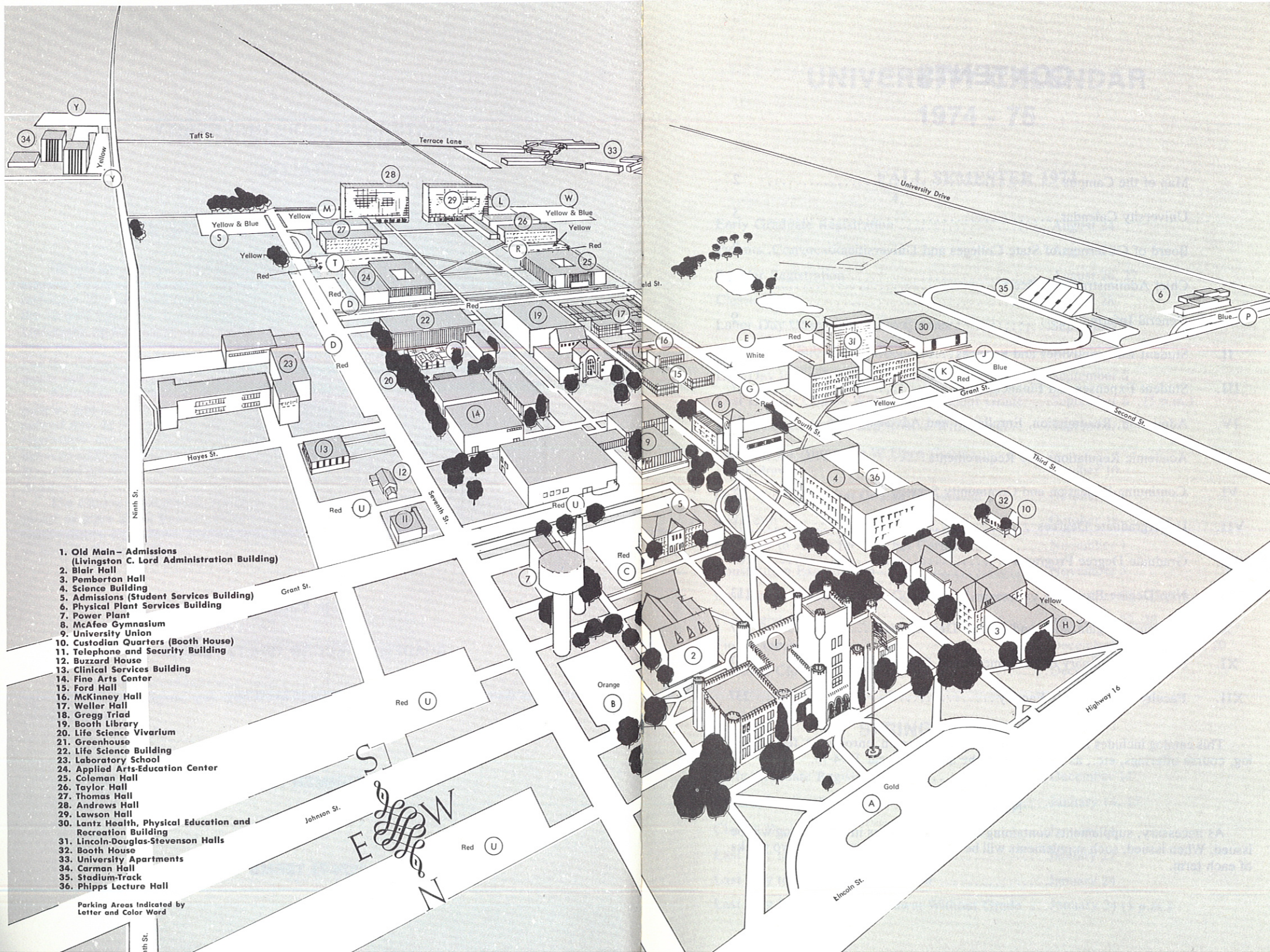
ANNOUNCEMENTS

FOR

SUMMER 1975

AND

1974-75 TERMS



1. Old Main - Admissions
(Livingston C. Lord Administration Building)
2. Blair Hall
3. Pemberton Hall
4. Science Building
5. Admissions (Student Services Building)
6. Physical Plant Services Building
7. Power Plant
8. McAfee Gymnasium
9. University Union
10. Custodian Quarters (Booth House)
11. Telephone and Security Building
12. Buzzard House
13. Clinical Services Building
14. Fine Arts Center
15. Ford Hall
16. McKinney Hall
17. Waller Hall
18. Gregg Triad
19. Booth Library
20. Life Science Vivarium
21. Greenhouse
22. Life Science Building
23. Laboratory School
24. Applied Arts-Education Center
25. Coleman Hall
26. Taylor Hall
27. Thomas Hall
28. Andrews Hall
29. Lawson Hall
30. Lantz Health, Physical Education and
Recreation Building
31. Lincoln-Douglas-Stevenson Halls
32. Booth House
33. University Apartments
34. Carman Hall
35. Stadium-Track
36. Phipps Lecture Hall

Parking Areas Indicated by
Letter and Color Word

CONTENTS

Map of the Campus	2
University Calendar	5
Board of Governors of State Colleges and Universities	7
Chief Administrative Officers	8
I. General Information	9
II. Student Life, Activities and Services	15
III. Student Expenses and Financial Aid	27
IV. Admission, Readmission, Enrollment and Advisement	41
V. Academic Regulations and Requirements	47
VI. Continuing Education and Community Service	59
VII. Undergraduate Degrees	61
VIII. Graduate Degree Programs	109
IX. Non-Degree Programs	113
X. Academic Organization and Course Descriptions	117
XI. Statistics, Summary of Enrollments and Degrees Awarded	233
XII. Faculty and Emeritus Faculty	237

This catalog includes information concerning admission, enrollment, fees, housing, course offerings, etc., as it pertains to the academic year 1974-75.

NOTICE

As necessary, supplements containing important changes in this catalog will be issued. When issued, such supplements will be distributed during the first two weeks of each term.

UNIVERSITY CALENDAR 1974 - 75

FALL SEMESTER 1974

Early Graduate Registration	August 24
Parents' Convocation	August 25
Regular Registration	August 26, 27
Classes Begin	August 28
Labor Day Observance - No Classes	September 2
Last Day to Submit Add Requests	September 3
Last Day to Apply for Graduation	September 6
Last Day for Course Withdrawal Without Grade ...	September 6 (5 p.m.)
Begin Automatic W Upon Course Withdrawal	September 7
Last Day for Automatic W Upon Course Withdrawal	October 10
Begin W or WF Upon Course Withdrawal	October 11
Mid-Term	October 18
Last Day to Apply for Teacher Certification	November 1
Constitution Examination	November 5
Last Day to Withdraw from Courses or University ..	November 22 (5 p.m.)
Thanksgiving Break	November 27, 28, 29
Final Examinations	December 16, 17, 18, 19, 20
Semester Closes	December 21

SPRING SEMESTER 1975

Early Graduate Registration	December 14
Regular Registration	January 14, 15
Classes Begin	January 16
Last Day to Submit Add Requests	January 21
Last Day to Apply for Graduation	January 24
Last Day for Course Withdrawal Without Grade ...	January 24 (5 p.m.)

Begin Automatic W Upon Course Withdrawal January 25
 Constitution Examination February 25
 Last Day for Automatic W Upon Course
 Withdrawal February 28 (5 p.m.)
 Begin W or WF Upon Course Withdrawal March 1
 Mid-Term March 7
 Last Day to Apply for Teacher Certification March 14
 Spring Vacation March 20 through 31
 Last Day to Withdraw from Courses or University .. April 18 (5 p.m.)
 Commencement May 11
 Final Examinations May 12, 13, 14, 15, 16
 Semester Closes May 17

SUMMER TERM 1975

Early Graduate Registration May 10
 Regular Registration June 9, 10
 Classes Begin June 11
 Last Day to Submit Add Requests June 13
 Last Day to Apply for Graduation June 16
 Last Day for Course Withdrawal Without Grade .. June 16 (5 p.m.)
 Begin Automatic W Upon Course Withdrawal June 17
 Last Day to Apply for Teacher Certification June 27
 Last Day for Automatic W Upon Course
 Withdrawal July 2 (5 p.m.)
 Begin W or WF Upon Course Withdrawal July 3
 Independence Day Observance - No Classes July 3, 4
 Mid-Term July 8
 Constitution Examination July 15
 Last Day to Withdraw from Courses or University .. July 24 (5 p.m.)
 Commencement August 3
 Final Examinations August 4, 5, 6, 7
 Term Closes August 8

THE BOARD OF GOVERNORS OF STATE COLLEGES AND UNIVERSITIES

APPOINTED MEMBERS

Felicitas Berlanga, Normal	1973-1975
Howard V. Phalin, Wilmette	1969-1975
E. Leland Webber, Wilmette	1969-1975
Jeffrey R. Ladd, Crystal Lake	1971-1977
Peter Lardner, Rock Island	1971-1977
Carol Lohman, Springfield	1971-1977
James J. Cicero, Chicago	1973-1979
Leon Davis, Chicago	1973-1979

EX OFFICIO MEMBER

Michael J. Bakalis, Superintendent of Public Instruction

OFFICERS

Howard V. Phalin, Chairman
 Jeffrey R. Ladd, Vice Chairman
 Ben L. Morton, Executive Officer

EASTERN ILLINOIS UNIVERSITY

CHARLESTON

CHIEF ADMINISTRATIVE OFFICERS

(Date of joining staff in parentheses)

PRESIDENT

Gilbert C. Fite, Ph.D., University of Missouri (1971)

PROVOST AND VICE PRESIDENT FOR ACADEMIC AFFAIRS

Peter R. Moody, Ph.D., Cambridge University (1967)

VICE PRESIDENT FOR STUDENT AFFAIRS

Glenn D. Williams, Ph.D., The Ohio State University (1960)

VICE PRESIDENT FOR BUSINESS SERVICES

Harley J. Holt, M.S., University of Wisconsin (1963)

VICE PRESIDENT FOR ADMINISTRATIVE AFFAIRS

Martin Schaefer, Ph.D., The University of Iowa (1958)

I. GENERAL INFORMATION

PURPOSE

Since the time of its founding Eastern Illinois University has developed a comprehensive and stimulating curriculum which offers an education in the liberal arts and sciences and in professional areas. The primary aim of the University's program is to provide excellent instruction and an educational environment which will produce broadly educated, responsible citizens who are prepared to serve and to lead in a free society.

ACCREDITATION

The University has been accredited by the North Central Association of Colleges and Secondary Schools since 1915. It is also accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary and secondary teachers and school service personnel. It is a member of the American Council on Education and the American Association of Colleges for Teacher Education. The programs in Music are accredited for the B. Mus. and M.A. by the National Association of Schools of Music. The B.S. degree in chemistry is accredited by the American Chemical Society. The B.S. degree in home economics is accredited by the American Home Economics Association.

LOCATION

Charleston, county seat of Coles County, is located in east-central Illinois on highways 130 and 16. Highway 16 (four lanes) connects Charleston with Mattoon. Ozark Airlines furnish flights daily to and from Chicago and St. Louis from Coles County Airport. The city has a population of 16,400.

HISTORY

The General Assembly of Illinois, by an act approved May 22, 1895, established at Charleston, Illinois, the Eastern Illinois State Normal School. In response to its changing role in higher education, the institution became Eastern Illinois State Teachers College (1921), Eastern Illinois State College (1947), and Eastern Illinois University (1957).

In 1907 the General Assembly granted to the institution the power of conferring degrees. The first master's degrees were awarded in 1952, and the first Specialist in Education degree was awarded in 1966.

THE CAMPUS

The grounds of the University cover an area of over 316 acres of landscaped, generally level land. In addition to the campus proper, the University also includes two wooded tracts near Charleston, the 126 acre Rocky Branch Area and the Burgner ten acres, both of which are used for nature study and life science research.

The chief buildings on the campus and the units included in them are as follows:

Applied Arts-Education Center: Educational Psychology and Guidance; School of Home Economics; School of Industrial Arts and Technology.

Buzzard House: Financial Aids.

Charles H. Coleman Hall: Departments of Economics, English, Foreign Languages, History, Philosophy, Political Science, Sociology-Anthropology, Speech-Communication.

Charles P. Lantz Health, Physical Education and Recreation Building: Departments of Health Education, Physical Education, and Recreation. Features include archery, pistol and rifle ranges; field house; gymnasium; and swimming pool.

Clinical Services Building: Counseling and Testing Center; Department of Speech Pathology and Audiology; Health Service; Reading, Speech, and Hearing Clinics.

Fine Arts Center: School of Fine Arts.

Florence McAfee Gymnasium: Department of Physical Education.

Francis G. Blair Hall: School of Business.

Life Science Building: Departments of Botany and Zoology.

Livingston C. Lord Administration Building (Old Main): Administrative offices; Admissions; Academic Advisement; Department of Mathematics; Paul Sargent Art Gallery.

Mary J. Booth Library: Main Library; Music Room; Self-Study Materials Center.

Physical Science Building: Departments of Chemistry, Geography-Geology, Physics, and Psychology.

Robert G. Buzzard Building: Audio-Visual; Special Projects; Portion of Home Economics; School of Education.

Student Service Building: Placement; Computer Services Center; Duplicating Services; Foreign Student Advisement; Housing; Residence Hall Food Services; Student Activities and Organizations; Student Services and Administration; and Affirmative Action Officer.

Telephone and Security Building: Security staff and university telephone system.

Martin Luther King, Jr., University Union: Features include a ballroom, book store, bowling alleys, cafeteria, lounges, meeting rooms, and the Panther Lair snack shop.

Dormitory Complexes include the following buildings: Andrews Hall; Carman Hall; Douglas Hall; Ford Hall; Lawson Hall; Lincoln Hall; McKinney Hall; Pemberton Hall; Stevenson Tower; Taylor Hall; Thomas Hall; Weller Hall; and University Apartments.

ORGANIZATION OF THE UNIVERSITY

Eastern Illinois University is one of five state universities under the general jurisdiction of the Board of Governors of State Colleges and Universities, to whom the President is finally responsible for the operation and general welfare of the university.

The University is functionally organized into four areas each headed by a vice president: Academic Affairs, Administrative Affairs, Business Services, and Student Affairs.

Chief instructional units include the College of Arts and Sciences, the School of Business, the School of Education, the Graduate School, the School of Health, Physical Education and Recreation, the School of Home Economics, the School of Industrial Arts and Technology, and the School of Fine Arts. Each of these units is headed by a dean.

Faculty and student participation in university affairs is accomplished through a Faculty Senate, a Student Senate, and membership on a number of academic and administrative committees. These councils, most of which have both student and faculty members, consider and recommend policies, curricula, and procedures to the President.

DIVISION OF THE YEAR

The university year, August 24, 1974 through August 8, 1975, consists of two semesters and an eight-weeks term for undergraduates and graduates.

ALUMNI ORGANIZATIONS

Recognizing the contribution that a body of truly interested alumni can make to the development of an institution of higher learning, the University has encouraged the growth of various alumni organizations. Since all who have been students at Eastern, whether graduates or not, are eligible to participate in alumni activities, students now in school are encouraged to learn more about the alumni program.

The Eastern Alumni Association, established in 1905, is composed of persons who have either received degrees from this institution or completed a minimum of one term's work here.

Officers of the Alumni Association for 1973-74 are Sam Owen, Mattoon, president; James Johnson, Charleston, vice-president; and Mrs. Lori Pike, LaHarpe, secretary-treasurer.

The Executive Committee for the Association is composed of the officers and twelve other members elected for three-year terms. Committee members are Elmer Jamnik, Joliet; George Mellott, Edwardsville; Nolan Sims, Mattoon; Delmar Elder, Sullivan; Dorris Winkler, Dieterich; Mrs. Kathy Reed, Casey; Donald Neal, Charleston; Calvin Stockman, Crystal Lake; Marcel Elmer Pacatte, Waverly; Charles Hassell, Forest Park; Dwight Connelly, Quincy; John Greathouse, Mattoon.

In 1947 the Alumni Association issued the first *Eastern Alumnus*, a quarterly magazine mailed to subscribers throughout the United States and several foreign countries. Subscription rates (which include membership in the Alumni Association) are \$2 for one year, \$4 for two years, and \$5 for three years.

THE EASTERN ILLINOIS UNIVERSITY FOUNDATION

In 1953 the Eastern Illinois Alumni Association sponsored the establishment of the Foundation, a non-profit corporation organized under the laws of the State of Illinois for charitable and educational purposes.

The objectives of the Foundation are to assist in developing and increasing the facilities of the University by encouraging gifts of money, property, works of art, historical papers and documents, and other materials having educational, artistic, or historical value. Such gifts should be conveyed to the Foundation, with proper stipulation as to their use. The Foundation, through its officers and members, will be glad to confer with intending donors regarding suitable clauses to insert in wills and suitable forms for gifts and memorials. The establishment of scholarships is particularly welcomed. Any gifts or bequests can be given suitable memorial names.

Membership of the Foundation consists of 100 persons, including alumni and friends of the University. Honorary members without vote are the President of the University, the President of the Board of Governors of State Colleges and Universities, the President of the Alumni Association, the Vice President for Business Services, and the Director of Alumni Services.

The Board of Directors of the Foundation consists of nine persons elected from the general membership. The President of the University, the President of the Board of Governors, and the President of the Alumni Association are ex officio members of the Board of Directors.

The present officers of the Foundation are:

Mr. John Gehl, President, Mattoon

Mr. Donald K. Neal, Vice President, Charleston

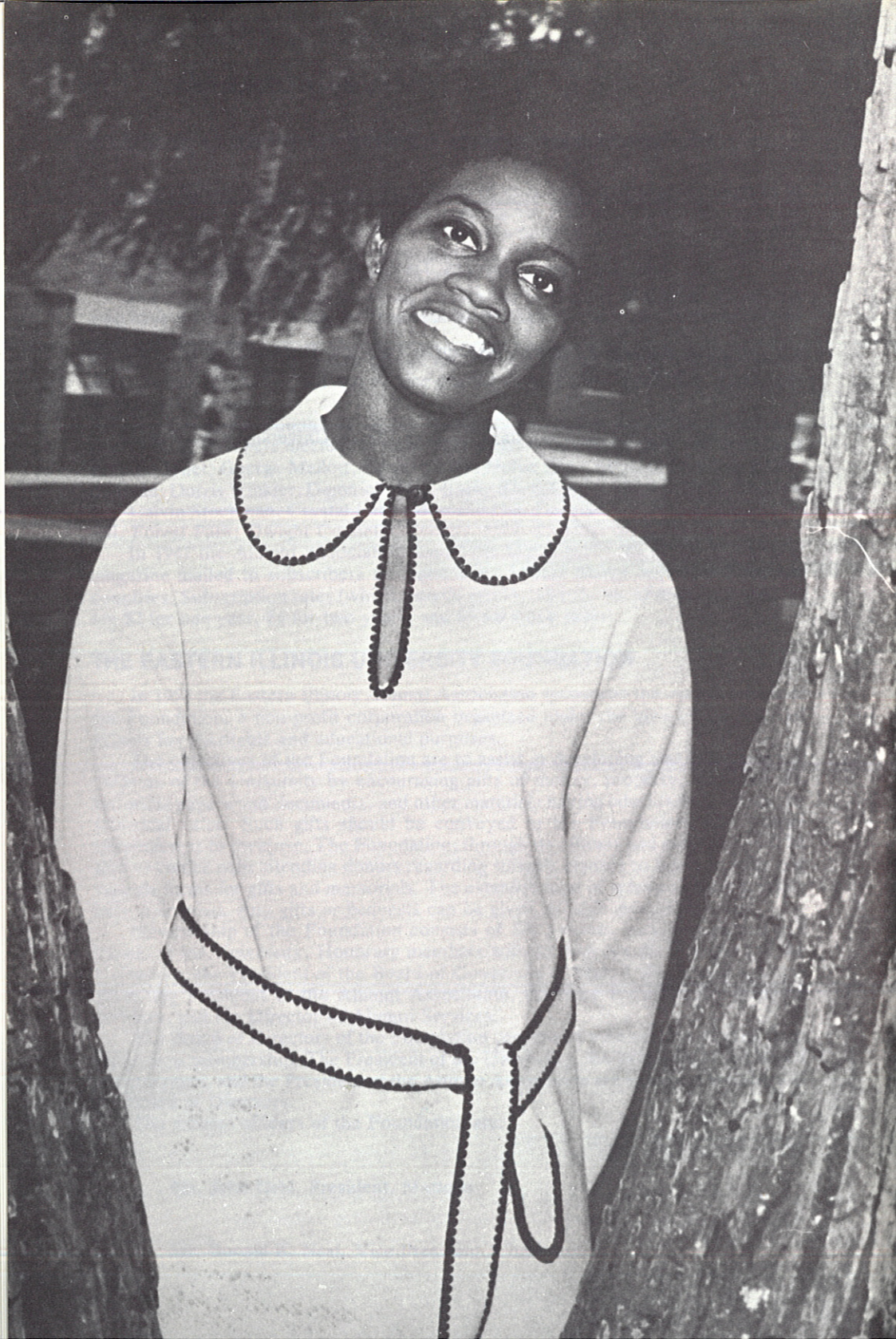
Mr. Ogden Brainard, Attorney, Charleston

Mr. Harley J. Holt, Treasurer, Eastern Illinois University, Charleston

Mr. John Morrissey, Assistant Treasurer, Eastern Illinois University, Charleston

Mr. Kenneth E. Hesler, Executive Director, Eastern Illinois University, Charleston

Mr. Harry Read, Secretary, Eastern Illinois University, Charleston



II. STUDENT LIFE, ACTIVITIES AND SERVICES

LIVING ACCOMMODATIONS

The Housing Program at Eastern Illinois University is based on the concept that there is a relationship between the student's living environment and the achievement of his educational goals as well as the development of personal and social maturity. This environment must lead to the student's self-direction and the assumption of personal responsibility.

PARIETAL RULE

Notwithstanding any other facilities which now or at any time hereafter may be available for students and faculty of said university (with the exception only of the covenants and agreements made by the Board of Governors of State Colleges and Universities for the security of the outstanding bonds heretofore issued for said university), that it will require, and adopt parietal rules and regulations designed to assure the maximum use of the said project, and existing university facilities, until all of the bonds have been fully paid as to both principal and interest.

UNIVERSITY HOUSING POLICIES

All Eastern Illinois University students classified as freshmen (less than 30 semester hours of credit) and sophomores (less than 60 semester hours) are required to live in University Residence Halls. Students who have not achieved the required hours at the beginning of the Fall Semester will be required to live in the halls for the entire academic year, from August 24 through May 17, plus the following summer session if the students are in attendance. Exceptions to this policy include students who are married, live at home with parents within a fifty mile radius, veterans with one or more years of active service, and students who are twenty-one years of age or older. Exceptions for other reasons must be requested in writing to the Dean, Student Housing, and approved by his office.

RESIDENCE HALLS

University Residence Halls and Food Services are designed to provide for the student's education outside of the classroom. The basic philosophy is the development of the total student. Rooms are primarily for double occupancy although a few single and triple rooms are available, as are the four-and-six-man suites in Stevenson Tower. Residence Hall accommodations are as follows:

Andrews	480	McKinney	150
Carman North	384	Pemberton	201
Carman South	432	Stevenson	360
Douglas	194	Taylor North	295
Ford	150	Taylor South	297
Lawson	480	Thomas	438
Lincoln	194	Weller	150

An application for residence hall room and board (20 meals per week) should be requested from the Office of the Dean, Student Housing. (Application for admission to the university does not constitute an application for housing.) A \$25 Housing Security Deposit is required when making application and serves as a damage fee and a guarantee of contract fulfillment. Residence Hall accommodations are granted on a priority basis, determined by the date of application and deposit. More specific information regarding the University Residence Halls will be mailed upon request, by the Office of the Dean, Student Housing.

MARRIED HOUSING

The 154 University Apartments consist of 100 one-bedroom and 54 efficiency apartments. Utilities, including telephone, are furnished by the University. The apartments are designed to provide inexpensive living facilities for married students.

Rates are \$96.50 per month for a one-bedroom apartment and \$86.50 per month for an efficiency apartment. Additional information may be requested from the Office of the Dean, Student Housing.

GENERAL SERVICES

COUNSELING

The Counseling Center is staffed by professional counselors and counseling psychologists who assist students with adjustment problems which may interfere with their deriving maximum benefit from their university experiences. Psychological services related to educational development, vocational choice, and personal and social adjustment are available without cost to all students.

EMPLOYMENT

The Director of Financial Aids receives applications for part-time employment and assists students in finding work at the University and in the community. Student employment is contingent upon maintenance of satisfactory academic standing. See Section III, College Work Study Program.

INSURANCE

By action of the Board of Governors, each full-time student is assessed a fee for group health and accident insurance administered by the University to supplement services performed by the University Health Service. Insured students are eligible to purchase identical coverage for their dependents.

The insurance is available annually with premiums paid at enrollment time each session of the year. Students attending spring semester who do not intend to be

enrolled during the summer but who wish summer coverage must apply for this insurance sometime during the spring semester. Summer session insurance is in force until the following enrollment day.

Students who can produce evidence of equal or better coverage may make application for a refund of this fee by contacting: Director of Financial Aids. This application must be filed within ten days following registration day each session.

The group policy provides for the first \$500 of all reasonable hospital expenses, 80 per cent of all reasonable hospital expenses over \$500 and reasonable surgical or medical fees, as outlined in the insurance brochure, up to \$10,000 for any one accident or period of illness not exceeding one year from date of first treatment, except that emotional or mental illness payments may not exceed \$5,000. Further details are provided in a brochure available in the Office of Financial Aids.

MEDICAL

The Health Service is located in the Clinical Services Building. It renders limited medical and surgical care, supervises the periodic physical examinations, and has general oversight of health conditions of the University community.

Services provided by the Health Service are covered by student activity fees.

PLACEMENT

Registration or re-registration with the Placement Center is recommended prior to graduation for all degree candidates. The Placement Center seeks to help graduates secure positions for which they are qualified and furnishes prospective employers with pertinent information about the applicants. It also maintains a follow-up service, including a program of visits and reports from employers and persons placed. Placement services are free to students who qualify.

Teacher Placement Services are available to undergraduates who have been in attendance at Eastern for a year, who have been admitted to a teacher education curriculum, and have attained senior standing. **Graduate Students** may register for placement if they have attended Eastern Illinois University for one term and have earned ten semester hours of graduate credit towards a master's degree. **Alumni** whose institutional records are clear may register by bringing their credentials up to date and paying a fee of \$5. The placement registration fee for graduates initiating registration more than one year after graduation is \$25.

Industrial and Business Placement Services are available to students who have attained senior standing. The Placement Center furnishes the candidate's credentials to prospective employers and offers other services fundamental to their selection of employees.

TESTING

Testing services are available to University students without charge. Aptitude, intelligence, interest, personality and other tests are often used in counseling.

The Testing Service operates an IBM 1230 test scoring machine with an attached IBM 534 card punch. Area schools may arrange for the scoring of standardized tests at a nominal charge. University faculty may arrange for the scoring of classroom tests to include item analysis at no cost. For detailed information contact the Coordinator of Testing.

INSTRUCTIONAL SERVICE

AUDIO-VISUAL SERVICES

The Audio-Visual Center provides instructional resources and accompanying services to the teaching faculty. Instructional resources including films, filmstrips, tape and disc recordings, video programs and a limited number of programmed audio and visual materials are available from a small on-campus library and from rental sources. In addition, preview services are offered to those who have need for them.

Requests for service of the Audio-Visual Center should be submitted as early as possible, particularly where materials for class use need to be rented. Usually, three weeks is necessary to get the materials from outside sources onto campus and available for the classroom.

Professional personnel are available to assist the teaching faculty in the design of instruction, and for the production of visual materials for classroom use.

The Audio-Visual Center is open daily Monday through Friday 7:30 to 5:00 p.m. and the professional staff is available to the teaching faculty from 8:00 to 5:00 Monday through Friday.

BOOK RENTAL AND SALES

Basic textbooks for courses are rented to students through the Textbook Library. Book rent is included in the registration fee.

Rented textbooks must be returned in satisfactory condition by noon of the day following the last day of the term. Damage other than that of ordinary wear must be paid for by the student. Students who note damage in textbooks issued to them must report such condition to the manager of the Textbook Library within the first two weeks or be held liable for the damage. Damage to a book includes underscoring, highlighting, annotating, adding other marginalia, etc. A fine of \$1 per book is imposed if the student's textbook record is not clear by the close of the term.

LIBRARY SERVICES

BOOTH LIBRARY.

The Booth Library is the general library of the University and contains a book stock of over 350,000 cataloged volumes besides governmental documents, microtexts, maps, and pamphlets chosen to support the educational effort of the University. A sizeable addition to the original building was opened in 1968. All books in the library are on open shelves except those that are rare.

In the central area of the second floor are located the Circulation Department and the General Card Catalog. The Reference Department also is located near the center of the second floor. Here the students find the answers to many of their problems. There are periodicals, indexes and abstracts available as well as a collection of reference books. Special facilities such as seminar, group study, conference, and faculty study rooms and equipment for reading microtext materials are also provided on this floor. The current issues and the bound volumes of periodicals are kept on the third floor on open stacks.

The library serves as a depository for selected publications of the United States Government and for maps issued by the U.S. Army Map Service. A publisher's exhibit of textbooks for elementary and secondary schools is also provided.

Self-Study Materials Center (SMC) as a public service unit of Booth Library, located in the northwest corner of the main floor, provides the necessary environment

and resources required to pursue independent study. It has been developed to make information stored on non-print media such as phonorecords, audio tapes, etc., available to students and faculty members for various class assignments. Over 6,000 recordings serve for leisure-time enjoyment. Study carrels equipped for independent viewing and listening are also available in the Center. The SMC is open during all hours Booth Library is open.

READING IMPROVEMENT

Each term the Reading Center offers a non-credit course, Elementary Education 0990 — Reading Improvement for University Students for those who recognize a need for guidance and practice with essential reading skills. Specific goals are to help students increase speed of reading, develop flexibility in reading rate, improve comprehension and practice efficient study habits. Major attention is given to vocabulary development and critical evaluation of reading materials. Classes meet at various hours to permit convenience in scheduling. Courses are free to regularly enrolled students and materials are furnished without charge.

The Reading Center accepts some children, usually from elementary schools in the area, for remedial work in reading. Graduate students taking advanced work in reading obtain practical experience in diagnosing reading difficulties, exploring causes of problems, and providing remedial instruction.

The Reading Center is located on the second floor of the Buzzard Laboratory School, Room 225.

SPEECH AND HEARING DIAGNOSIS AND CORRECTION

The Speech and Hearing Clinic is housed on the second floor of the Clinical Services Building. Modern equipment is available to assist in testing of hearing, evaluation of hearing aids, and improvement of speech and language disorders. The services are available without charge to university students, children and adults in east central Illinois. Junior, senior, and graduate students in courses of speech and hearing obtain required clinical practice by working with these cases under supervision.

SOCIAL AND CULTURAL LIFE AND ACTIVITIES

STUDENT-FACULTY BOARDS

Student members of the student-faculty boards are appointed by the Student Senate; faculty members are appointed by the Faculty Senate. The Vice President of the Student Body and the Director, Student Activities and Organizations, or his representative, are ex officio members of all boards. The boards are as follows: Apportionment, Publications, Safety and Traffic, Communications-Media, Health Service, Intercollegiate Athletics, Sports and Recreation, and Performing and Visual Arts.

UNIVERSITY BOARD

The officers and coordinators of the University Board are named by the President of the Student Body and approved by the Student Senate. The committees are Coffeehouse, Concerts (approximately six big-name entertainers are brought to the campus each year), Fine Arts (approximately six outstanding fine-arts performers or

groups presented each year, most of them free to students with I.D. cards), Lecture (approximately six well-known lecturers on a variety of subjects are brought to the campus each year at no charge to students), Movies (low cost movies are provided every week of the school year), Personnel, Publicity, (including Parents Weekend, ice cream socials, etc.). Recreation, Homecoming, Travel, and Video Tape.

ACTIVITY FEES

Most activities under the supervision of student-faculty boards receive their support from activity fees charged all students. University Board activities are also funded by the activity fees. The allocation of funds from activity fees is made by the Appropriation Board, after consideration of budgets presented by the several major activities supported in whole or in part by the fund.

LECTURE SERIES

The University offers a series of several lectures each year by well-qualified speakers on topics of general interest. The lecturers are selected by a board composed of faculty and students. Various departments also engage lecturers in fields of specialized interest. No admission fee is charged.

MARTIN LUTHER KING, JR., UNIVERSITY UNION

The Martin Luther King, Jr., University Union houses a cafeteria, snack bar, game rooms, bowling alley, bookstore, ballroom, lounges, check cashing facilities, lobby shop and offices for the Director, Assistant Director, Director of the Union Food Services, and the Director of Arrangements.

The Union sponsors a variety of programs, including several recreation tournaments in bowling, billiards, bridge, chess, and table tennis. The Union and the University Board collaborate on coffeehouses and travel programs.

Organizations wishing to schedule any university facilities, other than academic space, may do so through the Scheduling Secretary located in the main office of the Union.

FORENSICS

Through the Department of Speech-Communication, students of undergraduate standing are offered the opportunity to participate in intercollegiate tournament experience in extemporaneous speaking, oratory, debate, and discussion.

Members of the forensic teams engage in competition with speakers from the major colleges and universities. Opportunity is also provided members of the teams to appear on radio and television programs throughout the Illinois-Indiana area and before civic clubs and high school assemblies.

Affiliation is maintained with several regional and national forensic organizations including: Illinois Intercollegiate Debate League, Illinois Intercollegiate Oratorical Association, Interstate Oratorical Association; American Forensic Association; and Pi Kappa Delta, the national honorary forensic fraternity.

INTRAMURAL SPEECH ACTIVITIES

Each year the Department of Speech-Communication offers any undergraduate student the opportunity to participate in an Intramural Speech Contest. This activity is designed for critical analysis and further student development in meaningful speech events.

STUDENT SPEAKER BUREAU

A Student Speaker Bureau is coordinated through the Department of Speech-Communication. Students may register with the bureau, requesting they be listed in a publication sent to service clubs and schools in the area. The bureau affords students the opportunity to appear in actual speaking situations to improve their communication ability.

THEATRE

The Department of Theatre Arts sponsors a variety of activities. Two full-length plays and a full-length oral interpretation program are presented each semester as public performances. Each week a student-directed workshop program is produced; this activity includes short plays, skits, readings and demonstrations.

Any student in the University is eligible to participate in the activities of the department. Practical experience in all phases of theatre can be obtained.

RADIO-TELEVISION

Several activities provide an introduction to the broadcast media. Each week students produce radio programs that are broadcast by stations in Illinois. The campus radio station, WELH, operated entirely by students, broadcasts more than fifty hours per week. Laboratories in television production are available in the television studios. Memberships are held in The National Association of Broadcasters and in Tau Epsilon Rho broadcast honorary. The Radio Club meets regularly to provide a nucleus for many of the radio-TV broadcasting activities. The activities mentioned above are open to all full-time students regardless of major. Interested students may contact WELH in the Speech-Communications Department.

MUSIC

Music organizations provide opportunities for musical growth through activities which in turn contribute to the life of the University. Instrumental organizations include a marching band, a concert band, a pep band, symphonic winds, a symphony orchestra, a string orchestra, and a jazz band. Other special vocal and instrumental ensembles afford additional opportunities for students to study and perform.

THE PAUL TURNER SARGENT ART GALLERY

The Paul Turner Sargent Art Gallery in Old Main brings to the campus exhibitions selected from various areas of the visual arts. These shows include paintings, ceramics, photography, sculpture, jewelry, prints, textiles — a collection is usually on display for a three week period. Special lectures and films related to the exhibitions are scheduled from time to time. This activity provides important original works for study in art classes, and adds to the cultural life of the general student on campus, community and region.

PUBLICATIONS

Student publications are a daily newspaper, the *Eastern News*; a creative magazine, the *Vehicle*; and a yearbook, the *Warbler*. The newspaper is published by a student staff with a faculty advisor. Staff positions on the *News* are open to all qualified students.

The *Warbler* is issued annually as a historical and pictorial record of the Univer-

sity year. A student editorial staff, supervised by a faculty advisor, is responsible for the publication. All qualified students are eligible for the staff.

The *Vehicle* is published three times annually. Creative material is solicited from all students.

A portion of each student's activity fee goes toward a school-year subscription to the *Eastern News*, the *Vehicle*, and the *Warbler*.

INTRAMURAL ATHLETICS AND STUDENT RECREATION

The School of Health, Physical Education and Recreation offers intramural and student recreation programs for men and women with opportunities for sharing in recreative physical activities. Participation is voluntary and open to all students. Over 30 dual, individual, and team sports are organized on an intramural basis, with teams from residence halls, fraternities, sororities and off-campus groups competing. Emphasis is also made on corecreational offerings and unstructured free-play opportunities. The Modern Dance Concert and the Synchronized Swim Show are special events in which any student may perform.

INTERCOLLEGIATE ATHLETICS

The program of intercollegiate athletics is dedicated to a belief that athletic competition promotes individual development of traits such as sportsmanship, fair play, honesty, fellowship, understanding, and adherence to democratic ideals to the end that personal growth and character will result. In addition, the acquisition of certain professional techniques and skills particularly for those who plan to coach, are objectives of the athletic program.

The University program of intercollegiate athletics for men includes football, basketball, baseball, track, cross country, wrestling, tennis, golf, gymnastics, swimming, and soccer. The University adheres to the intercollegiate athletics policies of the North Central Association of Colleges and Secondary Schools.

The University program of intercollegiate athletics for women includes field hockey, basketball, volleyball, softball, track and field, gymnastics, swimming, tennis, golf, badminton, and fencing. The University adheres to the intercollegiate athletics policies of the Association of Intercollegiate Athletics for Women.

STUDENT ORGANIZATIONS

STUDENT GOVERNMENT

The student government is organized on the same plan as the federal government with its three branches: executive, administrative, and judicial. The student officers and the student senators are elected by popular vote. The judicial branch members are named by the Student Body President and approved by the Student Senate.

The student government is concerned with matters pertaining to student welfare, student activities, and student participation in university planning and administration.

DEPARTMENTAL CLUBS

Approximately forty recognized clubs are related to every academic department on campus. There are twenty-five honorary and professional fraternities on campus.

RELIGIOUS ORGANIZATIONS

The university-recognized religious groups are: Baptist Student Union, Christian Science Organization, Campus Crusade for Christ, Christian Collegiate Fellowship, Fellowship of Christian Athletes, Latter Day Saints Student Association, Inter-Varsity Christian Fellowship, Newman Community, Roger Williams Fellowship, Students International Meditation Society, and United Campus Ministry.

ATHLETIC ORGANIZATIONS

Varsity Club, Women's Recreation Association.

RESIDENCE HALL GOVERNMENT

The Executive or Hall Council of each residence hall is the elected governing body for the residents. Each resident is a participating member through his or her elected representative or through corridor government and activities. Residents also have the opportunity to participate through committee work including the Academic, Social, Program, Intramural and Judicial committees.

The Residence Hall Association is the coordinating body for the activities and student governments of the halls. The association consists of elected delegates from each of the residence halls. The elected representatives serve as communicators between hall governments and the Residence Hall Association. The purpose of the Association is to promote the educational aspects of the residence hall programs and to recommend policies and procedures which affect student life in the residence halls.

SERVICE ORGANIZATIONS

Alpha Phi Omega, Environmental Conservation Organization, People Encouraging People.

SPECIAL GROUPS

Association of International Students, Chess Club, College Democrats, EIU Folk and Square Dance Club, EIU Sports Parachute Club, Eastern Film Society, Eastern Veterans Association, Ski Club, University Council for United Nations, and Young Republicans.

INTERFRATERNITY COUNCIL

The Interfraternity Council is composed of the presidents of the member fraternities and one elected representative from each fraternity. The IFC aids in establishing policies related to the entire fraternity system. It cooperates with the Panhellenic Council in planning cooperative Greek affairs on-and off-campus. The following fraternities are represented on Eastern's campus:

Acacia	Eastern Illinois University Chapter
Alpha Kappa Lambda	Rho Chapter
Beta Sigma Psi	Mu Chapter
Delta Chi	Eastern Illinois University Chapter
Delta Sigma Phi	Delta Psi Chapter
Phi Sigma Epsilon	Delta Chapter

Pi Kappa Alpha
Sigma Chi
Sigma Pi
Sigma Tau Gamma
Tau Kappa Epsilon

Zeta Gamma Chapter
Eta Mu Chapter
Beta Gamma Chapter
Alpha Alpha Chapter
Gamma Omega Chapter

OTHER SOCIAL FRATERNITIES

Alpha Phi Alpha
Omega Psi Phi
Phi Beta Sigma
Kappa Alpha Psi

Theta Nu Chapter
Tau Theta Chapter
Delta Chi Chapter

PANHELLENIC COUNCIL

The Panhellenic Council is composed of the presidents of sororities and two elected representatives from each sorority. It deals with problems confronting the sororities, establishes rules for rushing, cooperates with the Interfraternity Council in planning all-Greek affairs on campus, and awards a cup each year to the sorority maintaining the highest academic standing for the preceding year. The following sororities are represented on Eastern's campus:

Alpha Gamma Delta
Alpha Omicron Pi
Alpha Sigma Alpha
Delta Zeta
Kappa Delta
Sigma Kappa
Sigma Sigma Sigma

Beta Iota Chapter
Epsilon Iota Chapter
Gamma Omega Chapter
Gamma Nu Chapter
Delta Beta Chapter
Gamma Mu Chapter
Alpha Psi Chapter

OTHER SOCIAL SORORITIES

Delta Sigma Theta
Sigma Gamma Rho
Zeta Phi Beta
Alpha Kappa Alpha

Gamma Beta Chapter

AUTOMOBILE REGISTRATION AND CONTROL

By definition, a motor vehicle, in addition to an automobile, shall include such conveyances as motor bikes, motor scooters, and motorcycles.

FRESHMAN-SOPHOMORE MOTOR VEHICLE REGULATION

No undergraduate student who has completed less than sixty semester hours shall possess, park, or operate a motor vehicle on any University street, parking lot, or property beginning with enrollment day of each term and ending with the official date of closing each term. The regulation will not be enforced against students on the day they move into the halls nor the day they leave for vacations or semester breaks. An exception to this regulation may be made for a freshman or sophomore student who is physically handicapped, or who resides with his or her parents in Charleston Town-

ship, or who can demonstrate a critical need for a motor vehicle because of employment or other circumstance.

A request for an exception to the above regulation should be addressed to Chairman, Freshman-Sophomore Motor Vehicle Regulation Committee, Student Services building, Eastern Illinois University.

REGISTRATION OF VEHICLES

It is the responsibility of each student, employee, and faculty member who drives any motor vehicle on or around the campus to register the vehicle in the Security Office.

PARKING PERMITS

Application for a parking permit should be made at the Telephone and Security Building. A committee of faculty and students review all requests and make assignments based upon such factors as distance, employment, and physical disability. The annual charge for a permit is \$20 for prime or red lots and \$10 for all other lots. A permit may be purchased on a semester or yearly basis.

UNIVERSITY TRAFFIC REGULATIONS

All state and community laws apply on campus. University parking regulations are in effect until 5:00 p.m. of the last day of examinations of each term. University holidays are excepted. Other regulations will be issued periodically by the Security Office.

TRAFFIC PENALITIES

1. **For Violations of Freshman-Sophomore Regulations.** A violator of the freshman-sophomore motor-vehicle regulation will be subject to a fine of \$50 for the first and second offenses and will be automatically suspended from the University for the third offense.
2. **For Failure to Report.** Failure to report any change which would affect parking privileges: \$5.
3. **For Falsification of Registration.** Falsification of registration: \$10 and referral to university officials for disciplinary action.
4. **For Parking Violations:** For the first parking offense, \$1; for each additional parking violation, \$5.
5. **For Moving Violations:** For the first offense, \$5; for the second, \$10; for the third moving violation, \$15. The fourth offense will result in the loss of campus parking privileges for the remainder of the academic year. A violation of this measure will result in referral to University officials for disciplinary action.

Offenses shall be considered cumulative for any and all violations cited above for the period of the automobile registration.

TOWING

Motor vehicles parked in a University lot without a valid permit may be towed away without notice at the operator's expense.

BICYCLE REGISTRATION AND CONTROL

By definition, a bicycle shall mean any two-wheeled vehicle which is propelled by human power.

REGISTRATION

It is the responsibility of each student, employee, and faculty member operating a bicycle on the campus to register the bicycle in the Security Office. Registration and parking permits are free.

PENALTIES FOR VIOLATION AND NONCOMPLIANCE

Failure to comply with registration requirements — \$1; failure to use bicycle in conformity with operational provisions — \$1; violation of parking restrictions — \$1; fourth offense — possible referral for disciplinary action.

III. STUDENT EXPENSES AND FINANCIAL AID

EXPENSES

APPLICATION CHARGE

A non-refundable charge of \$15 must accompany an application for admission as an undergraduate.

SEMESTER FEES

All fees are subject to change at the end of any year by action of the Board of Governors of State Colleges and Universities. Fees listed below must be paid on or before registration day of each term.

RESIDENCY

Generally, an unmarried student under twenty-one years of age will be considered to have the same legal residence as that of his parent(s) or guardian. Married students and/or students over twenty-one years of age not classified as residents shall continue their non-resident classification unless they establish residency.

Eligibility for resident classification ordinarily requires the establishment and maintenance of a bona fide residence in the state for at least six consecutive months immediately preceding the beginning of any term for which the student enrolls in the University. Voter registration, filing of taxes, proper license and registration for the driving and ownership of a vehicle, and other such transactions may be required to verify the intent of residence in the state.

Inquiries regarding eligibility for residency should be made to the Dean, Student Academic Services.

FEES 1974-75

Full-Time Student — A student registered for nine or more semester hours of work shall pay the following fees:

<i>Fee:</i>	<i>Illinois Resident</i>	<i>Out-of-State Student</i>
Registration	\$210.00	\$633.00
*Programs and Services	88.75	88.75
Total	\$298.75	\$721.75

Part-Time Student — A student registered for less than nine semester hours of work shall pay the following fees:

<i>Fee: (Per Semester Hour)</i>	<i>Illinois Resident</i>	<i>Out-of-State Student</i>
Registration	\$ 20.00	\$ 60.00
**Programs and Services	5.00	5.00
Total	\$ 25.00	\$ 65.00

SUMMER FEES (1975)

Full-Time Student — A student registered in the summer term for six or more semester hours of work shall pay the following fees:

<i>Fee:</i>	<i>Illinois Resident</i>	<i>Out-of-State Student</i>
Registration	\$140.00	\$422.00
***Programs and Services	57.25	57.25
Total	\$197.25	\$479.25

Part-Time Student — A student registered in the summer term for less than six semester hours of work shall pay the following fees:

<i>Fee: (Per Semester Hour)</i>	<i>Illinois Resident</i>	<i>Out-of-State Student</i>
Registration	\$ 20.00	\$ 60.00
**Programs and Services	5.00	5.00
Total	\$ 25.00	\$ 65.00

University Programs and Services Fees:

* Fee: Student Activity Fee \$18; Bond Revenue Building Fee \$33.50; Textbook Rental Fee \$14; Health Insurance Fee \$11.25; Grants-in-Aid Fee \$9; Minority Student Fee \$3.
 ** Fee: Bond Revenue Building Fee \$2.80; Textbook Rental Fee \$1.20; Grants-in-Aid Fee \$.75; Minority Student Fee \$.25. A part-time student may purchase an activity ticket for the regular price of \$18. He may not purchase health and accident insurance.
 *** Fee: Student Activity Fee \$12; Bond Revenue Building Fee \$22.25; Textbook Rental Fee \$9; Health Insurance Fee \$6; Grants-in-Aid Fee \$6; Minority Student Fee \$2.

CONTINUING EDUCATION

Continuing Education fees are \$24 per semester hour with an additional charge of \$3 per course for textbook rental. When textbooks cannot be supplied by the University Textbook Library, the rental fee is waived and the members of the class must buy their own books.

MISCELLANEOUS FEES AND CHARGES

Late Enrollment Fee. An extra fee of \$10 is charged to a student who enrolls after the enrollment dates shown in the catalog or who fails to pay all fees on enrollment day. This fee is non-refundable. No enrollments are accepted after the sixth calendar day following the first day of classes.

Student Identification Card. Student I.D. cards are issued to new students their first term of enrollment upon presentation of the fee card indicating payment of registration fees. A fee of \$2 is charged for a student-photo I.D. or \$.25 for a non-photo card. Full-time students' I.D. cards are validated at no charge for all subsequent terms of attendance upon presentation of the paid fee card for each term of enrollment. A lost I.D. card should be reported immediately to the I.D. Office, Student Personnel Services, and application made for a duplicate card. An additional \$2 is charged for a lost or mutilated, temporary or permanent I.D. card.

Graduation Fee. Candidates for graduation must make application for graduation at the Records Office and pay the graduation fee at the Business Office. The fee of \$20 for graduate degree candidates and \$15 for undergraduate degree candidates includes the cost of cap and gown rental. The last day for applying for graduation is the tenth calendar day following the first day of classes of the semester at the end of which the candidate plans to graduate.

Transcript Fee. The University will furnish one free transcript of the academic record of a student when requested to do so. A fee of \$1 will be charged for each transcript issued after the first one. An additional \$.50 fee will be charged for each extra copy of the transcript prepared at the same time. Transcripts will be issued only for students whose university records are clear.

General Library Service Fee. All library materials must be returned and records cleared by the end of each term. Lost or mutilated materials must be paid for. Special fines are assessed for failure to observe library regulations. Students with uncleared records for lost or unreturned books from the previous term cannot charge out library materials.

Textbook Library Fee. A fee of \$1 per book is charged if the student's record in the Textbook Library is not clear by noon following the last day of the term. The cost of a damaged or lost book is also charged. Damage to a book includes underscoring, high-lighting, annotating, adding other marginalia, etc.

Chemistry Breakage Ticket. A deposit of \$5 is required for a breakage fee in all laboratory courses in chemistry. Refund is made of the amount not used for actual breakage after the locker is checked out.

Lock Purchases. Padlocks for lockers used in physical education must be purchased at the Martin Luther King, Jr., University Union. The cost per lock is \$2.45.

Charges for Materials. Fees are paid for materials used in certain courses.

RESIDENCE HALL FEES

Housing Security Deposit: A \$25 housing security deposit must accompany an application for residence hall accommodations. The deposit will be held by the University as a damage fee and a guarantee of contract fulfillment. The deposit will be refunded, upon written request, according to the terms of the residence hall contract.

Room and Board Charges: Charges for board and room in the University residence halls are: \$525 for the fall semester, and \$510 for the spring semester, if paid in full. There is an additional \$3 per semester charge if paid in installments, on dates set by the University. Failure to make the advance payment according to the terms of the residence hall contract could result in cancellation of the residence hall contract and forfeiture of the Housing Security Deposit. Cancellation of a hall contract after the deadline date for each term could result in the forfeiture of the advance payment and the Housing Security Deposit.

Room and board charges for the summer session and for camps and conferences will be forwarded upon request. With the exception of the summer term, it is understood that a student contracts for room and board for the full University academic year unless the contract is cancelled by the deadline dates included in the contract.

The University reserves the right to increase residence hall rates, if necessary, during an academic year, with the understanding that at least ninety (90) days notice will be given.

Payment Dates and Late Payment Fees: Dates for full payment or installment payments of room and board are included in the residence hall contract. In the event the student cannot make payment on or before the deadline date, a deferment may be requested through the residence hall counselor or the office of the Dean, Student Housing. Failure to make payment on the assigned date or the deferral date will result in the assessment of a \$10 late payment fee.

OFFICIAL RECEIPTS

Official receipts for fees must be preserved by the student during the term involved. A fee of \$1 will be charged for any duplicate official receipt obtained from the cashier.

REFUNDS

WITHDRAWAL

Regular. If a student withdraws from the University during a term by completing the procedure described in Section V and if the initiation and completion of the withdrawal is made through the office of the Dean, Student Personnel Services, during the first ten calendar days following the first day of classes for the term, the Registration Fee will be refunded upon written request to the Registration Office. There will be no refund of the Service Fee. If the withdrawal is initiated at a later date, there is no refund of any fees.

Summer Session. During the summer session the withdrawal must be initiated and completed during the first five calendar days following the first day of classes in order to have the Registration Fee refunded. No refund is made for withdrawal initiated after this date.

PRE-ENROLLMENT

Non-Enrollment. If a student pre-enrolls and pays his fees prior to the regular enrollment date for the term but does not appear for classes, all fees will be refunded if notice is given in writing to the Registration Office five calendar days prior to the announced day of enrollment. If such notice is not given within the prescribed period but is given during the first ten calendar days (five calendar days for summer term) following the first day of classes for the term, only the Registration Fee will be refunded.

Change in Load. Upon written request, a student who pays full registration fees and reduces his load to that of a part-time student during the first ten calendar days (five calendar days for summer term) following the first day of classes will be refunded, upon request, the difference between his Registration Fee and the course fee for those courses constituting his part-time load; there will be no refund of the Service Fee.

DENIED ADMISSION

If a student enrolls early and pays his fees prior to the regular enrollment day, but is subsequently denied admission to the University, all fees will be refunded.

BOARD AND ROOM

Refund of the advance payment for any term will be made upon receipt of a written request addressed to the Dean, Student Housing, and postmarked on or before the advance payment date for that specific term. Cancellations after the deadline date could result in the forfeiture of the advance payment and the Housing Security Deposit unless the residence halls are full to capacity as of the tenth day of the term. Advance payments are refunded if the student is not admitted to the University or if the student is dismissed from the University for academic reasons.

Room rent is not refundable, except for reasons stated above or in the residence hall contract. A student who withdraws during a term will be charged room rent for the term, unless the halls are filled to capacity. Board is refunded from the end of the week in which the student leaves the residence hall and the University.

FINANCIAL AIDS

STATE SCHOLARSHIPS AND GRANTS

Illinois State Scholarship Commission Scholarship and Grant Monetary Awards. Under authority granted by the Illinois General Assembly, the ISSC administers a program of monetary awards for students in the state of Illinois who attend one of the more than 175 ISSC approved colleges, universities, and hospital schools of nursing in Illinois. To be eligible for a monetary award the applicant must:

- a. Be a citizen or permanent resident of the United States.
- b. Be a resident of the state of Illinois.
- c. Be eligible to enroll as a full-time undergraduate student and be in good academic standing in an ISSC approved college, university, or hospital school of nursing as of September 1.
- d. Be enrolled for at least twelve semester hours.

- e. Not have received a baccalaureate degree or completed 150 semester hours or 225 quarter hours of college level course work or not have received more than eight semesters or twelve quarters of aid under the ISSC program.
- f. Demonstrate financial need as determined by the Commission.
- g. Must have submitted the required application form by the established deadline (currently September 1).

Monetary awards range from \$150 per academic year to a maximum of \$1,300 (as currently established by the General Assembly) but cannot exceed the amount of tuition and mandatory fees paid by all students enrolled at an institution.

Students enrolled in secondary schools may obtain the application from their high school counselor or principal; students enrolled in a college or a university or school of nursing may obtain the application form from the Office of Financial Aids at that institution; students not enrolled in any educational program may obtain an application by writing to the Director of Financial Aids at the institution of their choice, or from many social agencies and public aid offices in the county of their residence, or by writing directly to Illinois State Scholarship Commission, Box 607, Deerfield, Illinois 60015. For those enrolled as students, applications should be made no later than February 1 of each year. For those not enrolled as students, applications should be made immediately upon the decision to attend college. A college choice must be indicated at the time of application, but this choice may be changed at any time prior to September 15.

Military Scholarship. See Section on Veterans Benefits.

General Assembly Scholarship. Each member of the General Assembly may nominate annually from his district two persons, one of whom will receive a scholarship to the University of Illinois and the other individual to be awarded a scholarship to any other state-supported university designated by the member. A General Assembly Scholarship pays full tuition plus the student activity fee assessed by the institution. The student must pay any remaining fees assessed by the University. Application may be made any time directly to the legislator, who makes the appointment through the Office of the State Superintendent of Public Instruction.

Special Education Teacher Education Scholarship. Students enrolling or enrolled in a special education curriculum are eligible to receive this scholarship. This scholarship may be issued by the State Superintendent of Public Instruction on recommendation of the Superintendents of Educational Service Regions (formerly County Superintendents of Schools).

Special Education Grants. Special Education Grants are awarded by the Department of Scholarship Services, 212 East Monroe, Springfield, Illinois 62706, to students pursuing training in special education at approved colleges and universities. The number of awards varies annually and the recipient must work in the field of special education at least one-half year for each year of the grant. The trainee must be either a college junior or senior. The value of the grant is \$500 per year plus tuition for undergraduates and \$2,000 per year plus tuition for graduate fellows.

UNIVERSITY AWARDS

Talented Student Awards. Established by the Board of Governors of State Colleges and Universities to encourage the development of unique student talents. Tuition (registration fees) is waived for students receiving the awards. The awards go primarily to incoming new students who give promise of unique talents in art, athletics, forensics, music, broadcasting, and student publications. Nominations for the awards are made by department chairmen and faculty advisors.

Grants-in-Aid. Eastern offers in excess of 100 grants-in-aid annually to students who show promise or demonstrate a talent in fields which require public presentation of that talent. Among these fields are art, athletics, debate, journalism, music, and women's physical education. Approved by the Board of Governors of State Colleges and Universities, the talent scholarship program is financed through a student grants-in-aid fee.

Foreign Student Scholarship. Established by the Board of Governors of State Colleges and Universities, the number of awards available to students from other countries is quite limited. Such awards are based on scholarship achievement, academic potential, personal character and financial need. The scholarship pays only out-of-state fees and does not include room and board which must be paid by the student.

Disadvantaged Student Scholarship. Established by the Board of Governors of State Colleges and Universities to encourage students from low income families to apply for admission to Eastern. The registration fees are waived for a student receiving the scholarship. Approval is granted by the Director of Financial Aids.

Minority Student Scholarship. Administered by the Director of Financial Aids from funds derived from the Minority Student Fee paid by each student as part of his enrollment costs. Basis of award: demonstrated financial need and minority membership.

SPECIAL AWARDS

Achievement Fund Scholarship Award. Established in 1965 to provide financial assistance to outstanding students. The award presently goes each year to one or more students who have attained at least sophomore standing and who need at least one more year of study to receive a bachelor's degree. Selection of the recipient, including the determination of financial need, is made by the Financial Grants Committee.

Alexander Briggs Memorial Award. Established by Miss Margaret Briggs in memory of her father, Alexander Briggs, the contractor who completed the L. C. Lord Administration Building. The award is made annually to a business major who has completed at least one year of college work with not less than a B average and who is selected by the faculty of the School of Business on the basis of outstanding personal character and interest in the field of business and business education.

Business Alumni Award. Established by the alumni of the School of Business. It is made annually to a junior business major whose personal character, scholastic achievement, and interest in the fields of business and education promise service of distinction in the field of business education. Selection is made by the faculty of the School of Business.

Charles H. Coleman Scholarship. Established through the Department of History in memory of Dr. Charles H. Coleman, former professor and Head of the Department of History, and a distinguished Lincoln scholar. The award goes annually to an undergraduate or graduate history major.

Gretchen Sue Denton Scholarship. Established in memory of Gretchen Sue Denton, a student at Eastern at the time of her death in 1971. An annual award is presented to a recreation major of junior standing who gives definite promise of making a substantial contribution to the field of recreation.

Thomas R. Drury Scholarship. Established in memory of Thomas R. Drury, an alumnus of Eastern. The award is presented annually to a student admitted to

Eastern's Graduate School and who plans to pursue a career in instructional media. The selection committee is composed of representatives of the School of Education, Instructional Media Services, and the Illinois Audio-Visual Association.

G. B. Dudley Award. Established by Tilford Dudley in memory of his father, Dr. G. B. Dudley, who was closely associated with the University. The fund makes a minimum of \$200 available each spring for awards to outstanding students in the fundamental sciences: botany, chemistry, physics, and zoology. The recipients are chosen by the chairmen of these four departments.

Leo J. Dvorak Memorial Award. Established in memory of Dr. Leo J. Dvorak, late Director of the School of Music. The award is presented to a junior music major who shows promise of becoming an outstanding teacher in public school music. Selection of the recipient is made by the faculty of the Department of Music.

Charles A. Elliott — Industrial Arts Education Award. Established by Dr. Charles A. Elliott, a member of the Eastern faculty from 1945 to 1973. The award will go annually to a junior, senior, or graduate student in Industrial Arts Education who shows promise of making a worthwhile contribution as a teacher of industrial arts.

Ann Frommel Memorial Award. A scholarship for outstanding students in botany, zoology, and chemistry, established by Mr. and Mrs. Albert E. Frommel, Charleston, Illinois, in memory of their daughter. The award is made to an outstanding student who has completed at least his freshman year of college work and has maintained at least a B average in all academic subjects.

Thomas A. Grud Scholarship. Established by the family and friends of the late Thomas A. Grud who was killed in Vietnam on Christmas Day, 1967. The award goes annually to a male student who is earning a portion of his college expenses but who is in need of additional financial assistance.

Hobart F. Heller Scholarship. Established in honor of Dr. Hobart F. Heller, Vice President for Instruction and a member of the Eastern faculty for thirty-six years, who retired in 1967. The award will go annually to a student who, by reason of scholarship, responsible character, sense of purpose, growth, and service to the University community during his first three years, gives promise of a life of distinguished service and leadership. Selection of the recipient is made by a committee headed by the Dean, Student Personnel Services.

Bobbie King Memorial Scholarship. Established in 1966 by Mr. and Mrs. Karl King of Charleston, Illinois, in memory of their daughter. The award will go annually to a junior or senior demonstrating outstanding achievement in the study of foreign languages.

Martin Luther King, Jr., Scholarship. Established by the Eastern Illinois Chapter of the American Association of University Professors in memory of Dr. Martin Luther King, Jr. The award goes annually to one or more Eastern students who are "living examples of the ideals and values expressed by Martin Luther King."

Walter A. Klehm — Industrial Arts Education Award. Established in honor of Dr. Walter A. Klehm, a member of the Eastern faculty from 1938 until his retirement in 1970. Dr. Klehm was the first Dean of the School of Industrial Arts and Technology. The award goes annually to an industrial arts major who demonstrates promise as a teacher of industrial arts subjects.

Charles P. Lantz Scholarship. Established in memory of Dr. Charles P. Lantz, Director of Athletics at Eastern from 1911 to 1952. The award is made annually to one or more persons who will be seniors the following year, who have demonstrated outstanding athletic achievement, who have shown evidence of leadership qualities, and who have demonstrated above-average scholastic ability.

Livingston C. Lord Memorial Scholarships. Established by the Alumni Association of the University in memory of Livingston C. Lord, who served as President, 1899-1933. It is the University's highest award for scholarship.

The scholarships are awarded annually at commencement to one or more junior or senior students. The students' character, scholarship, and skill in teaching must promise service of distinction in the field of education.

Florence McAfee Scholarship. Established by faculty and alumnae in memory of Dr. Florence McAfee, Head of the Department of Physical Education for Women from 1924 to 1962. The award goes annually to a second semester sophomore or junior woman physical education major who demonstrates the qualities of scholarship, leadership, and professional excellence as exemplified by Dr. McAfee. Selection of the recipient is made by a committee from the Department of Physical Education.

Isabel McKinney Scholarship. Established in memory of Dr. Isabel McKinney, Head of Eastern's Department of English from 1922 to 1945. The award goes annually to a person who has demonstrated high scholastic achievement and has the qualifications to enroll in the English graduate program at Eastern. Selection of the recipient is made by the Scholarship Committee of the Department of English.

Louise C. Miller Scholarship. Established through the Department of Music in honor of the late Miss Louise C. Miller, a singing teacher for many years in the Chicago public school system, the award goes annually to a deserving student of music.

Raymond L. Modesitt Mathematics Scholarship. A scholarship established by the wife and daughter of the late Mr. Modesitt, a member of the Eastern mathematics faculty from 1912 to 1927. The \$500 award goes annually to a junior or senior in mathematics.

Winnie Davis Neely Memorial Award. Established by Sigma Tau Delta, national professional English fraternity, in memory of Winnie Davis Neely, a member of the English Department, 1934-1952. An award is made annually to the university student who submits the best manuscript in the literary contest sponsored by the student literary publication and Sigma Tau Delta.

Estelle Ruth O'Brien Memorial Mathematics Scholarship. Established in 1967 by Dr. Maynard O'Brien and his son in memory of their late wife and mother, Estelle Ruth O'Brien. Mrs. O'Brien was a mathematics teacher in the public schools. The award will go annually to a mathematics major enrolled at Eastern or to a high school graduate who has expressed in writing an intent to enroll as a mathematics major at Eastern.

President's Award. Established in 1973, the award goes annually to one or more freshman students who rank near the top of their class after one year of college work. Only students who have done all of their college work at Eastern are eligible for consideration.

Emma Reinhardt Award. Established in 1962 by members of Beta Psi Chapter of Kappa Delta Pi in recognition of the contributions of service, guidance, and leadership of Dr. Emma Reinhardt, counselor to the chapter for thirty-one years. The award is made annually to the highest ranking junior pursuing the degree Bachelor of Science in Education.

Donald A. Rothschild Award. Established in memory of Dr. Donald A. Rothschild, a member of the Eastern faculty from 1934-1967 and Head of the Department of Psychology. The annual award is given to a psychology major who demonstrates the potential for making a significant contribution to psychology.

Paul Turner Sargent Scholarship Award. Established by the family and friends of the late Paul Turner Sargent, nationally known artist and a 1906 Eastern graduate. The award is made to an art major or minor who has completed the second semester of the sophomore year.

Walter Merritt Scruggs Scholarship. Established in memory of Dr. Walter M. Scruggs, former Head of the Department of Zoology and first Director of the Division of Life Sciences at Eastern. The award goes annually to an outstanding student in the life sciences who has demonstrated a definite interest in research or teaching.

Mr. and Mrs. William Craig Simmons Memorial Award. Established by members of the Simmons family, the award is made annually to a junior business major on the basis of outstanding personal character, scholastic achievement, and interest in the fields of business and business education. Selection is made by faculty members of the School of Business.

Kate Booker Stapp Scholarship. Available to women students in teaching curricula who are widows (or whose husbands are incapacitated) with at least one child under the age of eighteen. The fund was established in 1948 by a gift of \$400 from Miss Helen Stapp in honor of her mother. Applications are made to the Director of Financial Aids.

Ernest L. Stover Scholarship. Established in honor of Dr. Ernest L. Stover, former Head of the Department of Botany. The award goes annually to a botany major of junior or senior classification who has demonstrated scholastic achievement and shows promise as a teacher or research person. Selection of the recipient is made by a committee from the Department of Botany.

Edson H. Taylor Award. Established in honor of Dr. E. H. Taylor, professor of mathematics at Eastern from 1899 to 1945. It is awarded annually to a junior or senior who is majoring in mathematics. The recipient of this award is chosen by the faculty of the Mathematics Department on the basis of excellence of scholarship in mathematics.

Annie L. Weller Award. Established in memory of Miss Annie L. Weller, late Head of the Geography Department. The award is made annually to a graduating senior planning to pursue graduate study prior to a career in teaching. Eligible candidates must be majoring in the humanities, social sciences, or natural sciences and must have demonstrated superior scholarship ability.

Howard DeForest Widger Award. Granted annually by the Alumni Association to a senior English major selected by the faculty members of the English Department. The award is given for outstanding personal character and scholastic achievement in the field of English.

LOANS

The Adelia Carothers Fund. This fund was established by the late Mrs. Ida Carothers Merriam and Mr. Charles G. Carothers in memory of their mother. This fund is to be loaned to young women students of high character and scholarship during their junior and senior year. The interest rate is two per cent during enrollment. At termination of enrollment the rate increases to six per cent. The fund is administered by the Dean, Student Personnel Services.

Elementary and Junior High School Student Teaching Loan Fund. This loan fund was established with funds contributed by students of Eastern State High School during World War II. Loans up to \$100 may be made to students who need the funds during their student teaching semester. No interest is charged when payment is made within one year. Application must be made to the Dean, School of Education.

Emergency Loan Fund. The amount of an Emergency Loan is limited to \$100 for a maximum period of ninety days. No interest will be charged. To be eligible, a student must be in residence at the University, at least one term and be in good standing. Application is made in the Office of Financial Aids.

Illinois Congress of Parents and Teachers Loan Fund. In September of 1954 the Illinois Congress of Parents and Teachers established a loan fund of \$1,000. Loans from this fund on either a short or long-term basis may be secured by an eligible student who is in training for the teaching profession. No interest will be charged if the money is repaid within one year of termination of enrollment. Interest then begins at three per cent. Students should contact the office of Financial Aids for application forms.

Illinois Guaranteed Loan Program. The Illinois General Assembly has authorized an Illinois loan program to guarantee student loans made by commercial lenders.

An eligible student who has been accepted for enrollment in college may borrow from a minimum of \$150 to the maximum amounts stated below. There is no age restriction; a minor is eligible to enter into a loan contract and to assume the responsibility for his own indebtedness. Payment must begin no less than nine months after the student either graduates or ceases full-time study.

MAXIMUM LOAN AMOUNTS

Freshman year	\$1,000
Sophomore year	1,500
Junior year	2,500
Senior year	2,500
First-year graduate study	2,500

Application forms and additional information about this program are available from participating lending institutions (banks, building and loan associations, credit unions, and in the Office of Financial Aids).

Elizabeth K. Lawson Emergency Loan Fund for Women. Established by friends of Emeritus Dean of Women Elizabeth K. Lawson. The amount of a loan is limited to \$100 for a maximum period of ninety days. No interest will be charged if repaid within that period. To be eligible, a student must be female and in good standing. Application is made in the Office of Financial Aids.

The Florence McAfee Loan Fund. Physical education majors and minors, alumnae, and staff established this fund in honor of Dr. Florence McAfee. Any woman student, either majoring or minoring in physical education, is eligible to borrow from the fund. When need arises, students should contact a member of the Physical Education staff.

National Direct Student Loan Fund. The National Direct Student Loan program was established by the Educational Amendments of 1972. Eastern Illinois University has been accepted as a participant in the program. Loans will be provided students in accordance with federal recommendations and regulations.

To be eligible, the student must show a genuine need for the loan, he must be enrolled as a full-time student or half-time student, and he must meet the academic standards set by the University.

The amount of the loan will be determined by the University on the basis of availability of funds and the student's financial need. Application blanks should be obtained from the Director of Financial Aids.

The Russell Loan Fund. This fund was established by the family and friends of Mrs. W. L. Russell to provide loans for needy women students. The fund is administered by the Dean, Student Personnel Services.

University Loan Fund. To be eligible for a University Loan a student must be of at least sophomore standing with an academic average of at least C. The primary need for the loan should be to remain in school. Only full-time students are eligible.

No student may borrow more than \$300 in his sophomore year, \$300 in his junior year, or \$600 in his senior year; the total owed at any one time shall not exceed \$600. The interest rate is two per cent during enrollment. At termination of enrollment, the rate increases to six per cent.

The will of the late Dr. W. D. Morgan of Charleston gives to the Student Loan Fund the annual income of approximately \$6,000. An additional amount will be received at the death of certain heirs.

In 1934 there was left to the University by the will of the late John L. Whisnand of Charleston a portion of his estate as an endowment, the income from the endowment to be available for financial assistance to deserving students. The amount is in trust with the Charleston National Bank. Information and applications are available in the Office of Financial Aids.

Errett and Maxie Tearney Warner Loan Fund. Established by Mr. Warner in memory of his wife; its purpose is to assist juniors (\$300 maximum loan) and seniors (\$400 maximum loan) who are full time students in good standing. Information and application forms are available in the Office of Financial Aids.

VETERANS BENEFITS

The Veterans Act of 1966, Public Law 358, provides educational benefits to veterans who have completed 181 days or more of federal active duty (six-month enlistees are not eligible) terminating with an honorable discharge on or after February 1, 1955. The law provides one-and-one-half months benefits per month of service up to eighteen months. A veteran with eighteen or more months of service will receive the maximum of thirty-six months. Minimum monthly benefits are \$220 for a full-time student. Applications are processed by the Office of Veterans Services.

Public Law 634. War Orphans may receive training under Public Law 634. Minimum monthly benefits are \$220 for full-time students.

Public Law 815. Veterans with 30% or more disability are eligible for training under Public Law 815 with special disability benefits. Minimum monthly benefits are \$170 for full-time students in addition to payment of all fees and reasonable amount of supplies.

Widows of veterans who died as a result of service and wives of totally disabled (service incurred) veterans are eligible for their husbands' educational benefits.

VA 21-674. All students eligible for this program must make application through their local Veterans Commission office. They are to bring the necessary forms to the Office of Veterans Services.

MILITARY SCHOLARSHIP

Any person who served in the armed forces of the United States after September 16, 1940, who at the time of entering such service was a resident of Illinois and has been honorably discharged, may be awarded a scholarship provided he has the required period of service. A veteran discharged after August 11, 1967, must have a minimum of one year's active service. If discharged prior to this date, he needs only an honorable separation from service. Application should be made by filing a photostatic copy of the discharge or separation papers with the Office of Veterans Services. This scholarship may be used concurrently with the GI Bill.

Once initiated, the Military Scholarship runs continuously for four years and automatically terminates at that time unless an extension up to two years is granted under special conditions.

Military Scholarships must be registered with the Office of Veterans Services to be valid for use.

ILLINOIS ORPHANS EDUCATION ACT

The Illinois Educational Benefits Act provides financial aid for children of certain deceased veterans and children of veterans who are totally and permanently disabled from a service-connected disability. Qualified students, ages 10 to 18, may receive up to \$150 and those from 18 to 23 may receive up to \$175 per month with which to defray expenses. Application blanks and additional information may be obtained from the Department of Registration and Education, Springfield, Illinois, or from the Illinois Veterans' Commission, 1000 Broadway, Mattoon, Illinois 61938.

FEDERAL EDUCATIONAL OPPORTUNITY GRANTS

The Educational Amendments of 1972 established two federal educational opportunity grant programs. They are the Supplementary Educational Opportunity Grant and the Basic Educational Opportunity Grant.

SUPPLEMENTARY EDUCATIONAL OPPORTUNITY GRANT

For students "who for lack of financial means of their own or of their families, would be unable to obtain such benefits without such a grant." It is intended to supplement other aids of undergraduate students, and each application for aid submitted to the Office of Financial Aids is checked for possible eligibility of this grant.

BASIC EDUCATIONAL OPPORTUNITY GRANT

This program provides for grants of \$1400 less the "expected family contribution" for all eligible students to assist them in meeting educational costs. If the HEW appropriation is sufficient to meet the total demand for Basic Grants, no award can exceed one-half the cost of attendance. If the appropriation is not sufficient to meet the total demand, the law specifies how each award is to be reduced.

In order for a student to receive a Basic Grant, he must have enrolled in a post-secondary institution for the first time on or after April 1, 1973, must have been accepted for enrollment at an eligible institution of higher education on at least a half-time basis in an undergraduate course of study.

Application forms are available at high schools, colleges, other federal offices, and the Office of Financial Aids. All students eligible to apply are urged to do so.

STATE REHABILITATION PROGRAM

The University cooperates with the Illinois Division of Vocational Rehabilitation. The purpose of this program is to provide rehabilitative services to those individuals who have a physical disability or psychological malfunction which interferes with their vocational objective. Information concerning this program can be obtained at the Counseling Center, the local office of the Division of Vocational Rehabilitation, West Route 16, Box 309, Charleston, Illinois 61920, or the student's home area DVR office.

STUDENT EMPLOYMENT

See Section II

COLLEGE WORK-STUDY PROGRAM

In addition to the regular student employment program, Eastern Illinois University has the Federal College Work-Study Program available to those students who demonstrate sufficient financial need. There are approximately 210 approved positions in departments and administrative offices. Write to the Director of Financial Aids for information.

**IV. ADMISSION, READMISSION,
ENROLLMENT AND ADVISEMENT****ADMISSION****POLICIES**

Applications for undergraduate admission to the university may be obtained by writing to: Director of Admissions, Eastern Illinois University, Charleston, Illinois, 61920. Graduate applicants should write to the Dean of the Graduate School.

Acceptance of applications and granting of admissions are subject to completion of the application process (see Procedures section). Completed applications must be on file no later than ten calendar days preceding registration for the term in which the student wishes to enroll. Earlier closing dates may be announced in the press.

BEGINNING FRESHMEN

The university will consider applications for admission of candidates qualified as follows:

Fall Semester: Students who rank in the upper half of their high school class, based on completion of six or more semesters, or who achieve an ACT composite standard score of 22 or above, or a SAT score of 900 or above.

Spring Semester: Students who rank in the upper two-thirds of their high school class, based on completion of six or more semesters, or who achieve an ACT composite standard score of 20 or above, or a SAT score of 830 or above.

Summer Term: Depending upon availability of resources and facilities, the university will consider all students who are high school graduates.

OUT-OF-STATE FRESHMAN APPLICANTS

Out-of-state applicants must meet the same admission requirements as those which must be met by Illinois high school students.

TRANSFER STUDENTS

An applicant who has attended one or more other colleges or universities may be admitted in good standing if he has an overall "C" (2.00 GPA) average in college work attempted. The admission and the academic status of transfer applicants who have less than a "C" average at previous colleges or universities will be determined by the Committee on Admissions.

Acceptance of applications and granting of admission are subject to completion of the application process and payment of the required non-refundable application fee. Completed applications must be on file no later than ten calendar days preceding the first regular enrollment day of the term for which the student wishes to enroll. Earlier closing dates may be announced in public press.

SPECIAL STUDENTS

High School Students: Students who have completed the junior year in a recognized high school, who have fourteen units, who rank in the upper twenty-five per cent of their high school class, and who have the recommendation of their principal may apply to take not more than two courses during the summer session preceding their senior year in high school and not more than one course in a regular semester during their senior high school year. Credits which the student earns under this arrangement are held in escrow and later applied toward graduation at Eastern Illinois University. Students are cautioned that such credit may not be acceptable to, or transferable to, other educational institutions.

Non-Graduates of High School: Residents of Illinois who are not high school graduates but who are at least nineteen years old may be admitted as special students to take such undergraduate courses as they may be qualified to study, but they may not be considered candidates for a degree or diploma. Special students may become candidates for a degree by passing the General Education Development Test and obtaining a High School Equivalency Certificate; in this case, only those college courses taken after passing the examination may be counted toward graduation.

Guest Students: Students who have attended other colleges or universities and who wish to attend a single term as a guest student should correspond directly with the Office of Admissions for special instructions and application forms.

FOREIGN STUDENTS

Students from areas other than the United States may be admitted by Committee on Admissions action only.

Students whose native language is not English or whose college preparatory work has been done in non-English speaking schools, must present scores on the Test of English as a Foreign Language, administered by the College Entrance Examination Board and the Education Testing Service. The admission requirement is a minimum score of 450 on the TOEFL.

GRADUATE STUDENTS

See Section VIII. Graduate Study

PROCEDURES FOR APPLYING FOR ADMISSION

Beginning Freshmen:

1. Obtain an application for admission after the fifth semester from:
Director of Admissions
Eastern Illinois University
Charleston, Illinois 61920
2. Complete the application form and give it to the high school principal or

guidance counselor. He will complete the form and return it to the University *after the sixth semester rank is available.*

3. Have the health and medical form completed by your physician and forward it directly to the Director of Health Services.
4. Send the non-refundable fee of \$15 by check or money order made payable to Eastern Illinois University along with the admission fee data card to: Cashier, Business Office, Eastern Illinois University, Charleston, Illinois 61920.
5. Each student applying for admission must submit scores from the American College Testing Program (ACT). Complete information concerning the ACT may be obtained from the high school guidance counselor or principal. It is strongly recommended that this test be taken during the junior year in high school for applicants who desire early notification of acceptance. All test results should be forwarded directly from the testing agency. Scores forwarded from the high school are not acceptable.
6. Students whose native language is not English or whose college preparatory work has been done in a non-English speaking school, must present scores on the Test of English as a Foreign Language, administered by the College Entrance Examination Board and the Educational Testing Service. The admission requirement is a minimum score of 450 on the TOEFL.

Transfer Students:

Transfer students must complete the application form obtained from the Office of Admissions.

A transfer applicant need not provide a high school transcript or ACT or SAT scores unless he wishes to participate in intercollegiate athletics. All transfer applicants, however, must request all colleges and universities previously attended to forward official transcripts to the Office of Admissions.

Graduate students should see Section VIII on Graduate Degree programs.

An Official Permit to Enroll is mailed after an application has been processed and completed. The Official Permit to Enroll must be presented at the time the student enrolls.

Housing applications must be sent to the Dean, Student Housing, (see Section II, Living Accommodations) and may be made at any time, even though the application for admission has not been filed. The application for housing does not constitute an application for admission, nor does the application for admission constitute an application for housing.

READMISSION

FORMER UNDERGRADUATE STUDENTS

Former undergraduate students who are in good standing and who return to the University after a lapse of one or more terms must make application for readmission to the Records Office at least ten calendar days prior to the official enrollment day of the term in which they intend to enroll. An earlier closing date may be announced in the public press. Students enrolled in the Spring Semester need not apply for readmission for the ensuing Fall Semester.

Former undergraduate students dismissed for low scholarship must make application for readmission to the Records Office at least ten calendar days prior to the official enrollment day of the term for which they intend to enroll. In addition, such students *must* petition for reinstatement. Petitions for reinstatement may be obtained from the Records Office. A student must remain out of the University for at least one term before being considered for reinstatement. Petitions for reinstatement must be submit-

ted at least twenty calendar days prior to the official enrollment day of the term in which the student wishes to enroll. An earlier closing date may be announced in the public press.

A former undergraduate student dismissed for low scholarship who has then attended another institution may be readmitted in good standing provided that his composite cumulative GPA in all college work attempted is 2.00 or above. If his composite GPA in all college work attempted is below 2.00, he may be readmitted, but on probation, provided that his GPA at the last institution attended is 2.00 or above and he has completed at least eight semester hours at that institution.

Former undergraduate students who have attended other colleges or universities since last attending Eastern Illinois University must have official transcripts sent to the Records Office before final processing of the application can be completed. If the student is attending another college or university at the time of applying for readmission, a statement of good standing from that institution will suffice until the official transcript can be sent at the end of the term.

FORMER STUDENTS WHO HAVE GRADUATED

Former students who have graduated and who return to the University after a lapse of one or more semesters must make application for readmission to the Records Office at least ten calendar days prior to the official enrollment day of the term in which they intend to enroll. An earlier closing date may be announced in the public press. *Students who wish course work to apply toward a graduate degree must also apply for admission to the Graduate School through the Graduate Office.*

ENROLLMENT

ENROLLMENT PROCEDURES

New Students. Instructions for the enrollment of new students are given in writing, in conferences, and at meetings during orientation periods.

Students Currently Enrolled. Each student currently enrolled during a term should submit a Course Request Card for his early enrollment for the following term. By doing so, the student agrees to complete his enrollment by advance payment of all fees. The University assumes no responsibility for accepting an ineligible student's early enrollment. Reservation of a space for any class is subject to the assigned capacity of the class. Scheduling for the reservation of space is planned so that graduate students, seniors, juniors, sophomores, and freshmen are assigned space in that order. Students who fail to complete the various steps, including payment of fees, in early enrollment will forfeit the space in class which has been reserved for them.

All students who have not completed early enrollment for a given term will enroll at times announced in advance of each term.

Former Students. Students who return to the University after a lapse of one or more terms receive written instructions for enrollment procedures after they have applied for readmission.

ACADEMIC ADVISEMENT

NEW STUDENTS

Each new student is assigned to an advisor who assists him in the preparation of his academic program. During the orientation or enrollment days the advisor and the student plan the program jointly.

It is expected that the student will have selected one of the curricula of the University and that the student and his advisor will plan courses that are consistent with the University requirements.

FORMER STUDENTS

After the application for readmission has been approved, the student is assigned to his major department or his former advisor through the Registration Office.

STUDENTS CHANGING MAJORS

Students who wish to change majors should apply in the Registration Office after consultation with their advisors. It is important that changes be made *before pre-enrollment*.

NEW STUDENT ORIENTATION

Prior to enrollment, activities are scheduled for acquainting new students with the University. Undergraduates enrolling at Eastern Illinois University for the first time, whether as first term freshmen or as students with advanced standing, are required to be present. Activities are planned to familiarize them with the University in order that they may understand its rules and regulations and become aware of the educational, social and recreational opportunities it provides. A schedule of activities is provided by mail.

V. ACADEMIC REGULATIONS AND REQUIREMENTS

CREDIT

CREDIT EARNED AT EASTERN ILLINOIS UNIVERSITY

The unit of credit measure is the semester hour which approximates the effort expended in 50 minutes of class work and 100 minutes of study during each week of one semester.

Generally, students may count toward graduation no more than four semester hours credit in dramatics, chorus, orchestra, band, and four semester hours in physical education activity courses. However, music majors and minors may count six semester hours in music ensemble activities; physical education majors and minors and recreation majors may count six semester hours in physical education activity courses.

ACCEPTANCE OF CREDIT FOR OTHER WORK

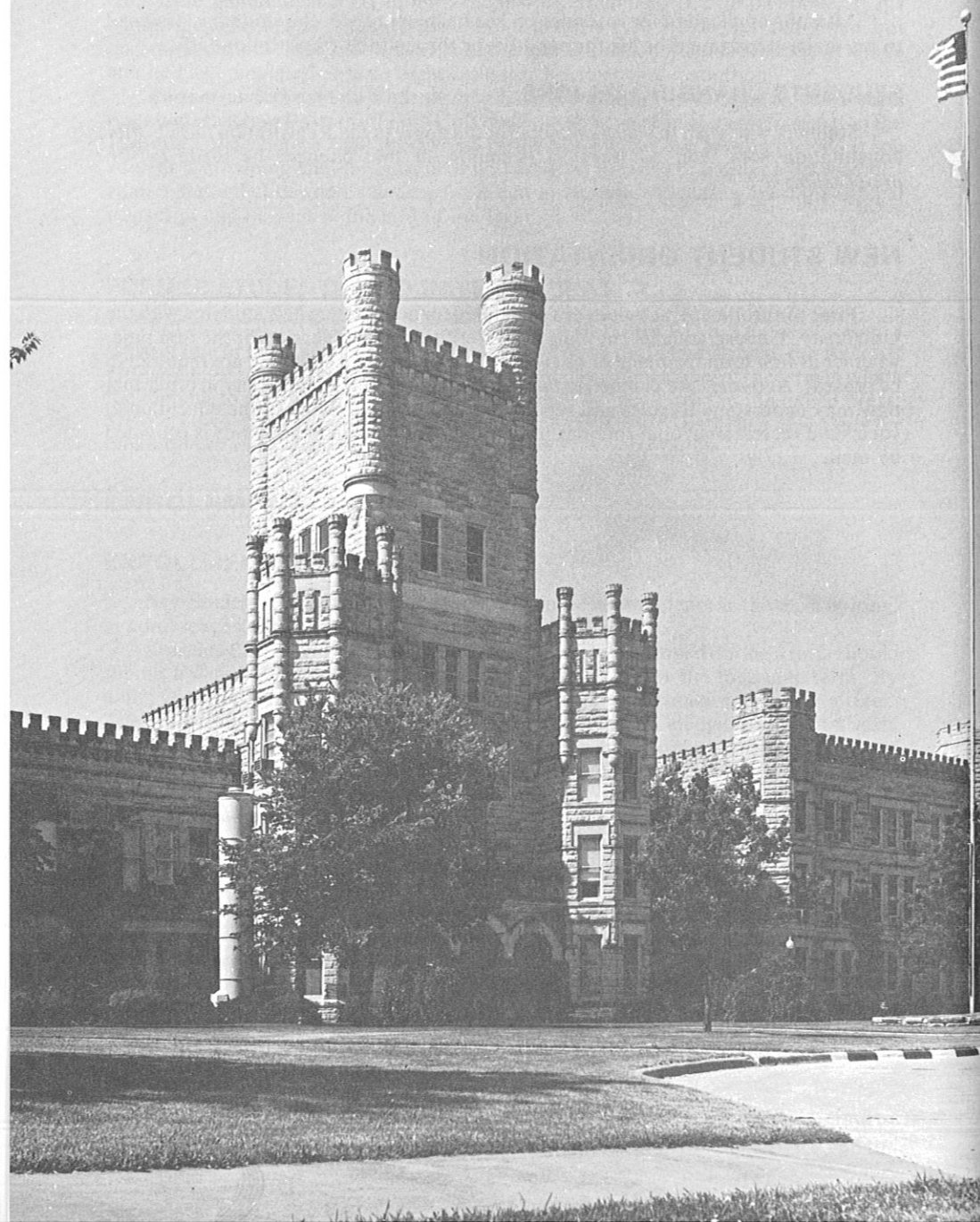
Credit for Courses in Other Colleges and Universities. Advanced standing and transfer credit are granted for courses passed in accredited colleges and universities and in accredited junior colleges.

Transfers must earn a minimum of 56 semester hours toward a bachelor's degree in a senior institution.

Credit from a College or University Taken While a High School Student. A student who, while in high school, takes college courses at a college or university, and upon completion of high school qualifies and enters Eastern Illinois University, will have up to a total of 15 semester hours accepted for transfer credit of appropriate college courses in which he did "C" or better work in the college, provided the college courses were not used to meet minimum high school graduation requirements.

A student who, while in high school, takes college courses, and upon completion of high school, continues his studies in the college and eventually enters Eastern Illinois University, will have his college courses accepted on the same basis as any other transfer student.

Credit for Military Service. Former members of the armed services who completed at least one calendar year of full time active duty are allowed, upon application to the office of Veterans' Services, up to six semester hours of credit for Health Education 1200 and physical education service courses. Certain experiences in military service may be submitted to the Records Office for evaluation for advanced standing. The recommendations contained in "A Guide to The Evaluation of Educational Experiences In the Armed Services" by the American Council on Education



are used as a basis for such evaluation. Credit is allowed when the recommendations can be considered as reasonable substitutes for work ordinarily accepted by the University.

Credit for Correspondence and Extension Courses. Correspondence and extension courses taken from accredited colleges and universities may be submitted for evaluation for advanced standing toward a baccalaureate degree. The total credit accepted toward graduation may not exceed 32 semester hours in correspondence and/or extension courses. Credit toward graduation for such courses, if taken in whole or in part during a period of residence study at Eastern Illinois University is subject to permission granted by the Registrar, in advance of enrollment and to subsequent completion in accordance with the conditions governing the permission. When students are enrolled simultaneously in any combination of residence, extension and correspondence courses, the total credit accepted may not exceed the maximum residence credit for which the student would be eligible during the period in question. Credit received in Eastern Illinois University courses taught by Eastern Illinois University staff members, either on or off campus, may be counted as credit in residence.

Application for permission must include the proposed starting date of the course, the proposed completion date, and the proposed periods of work. If the course is not completed in accordance with this schedule, an extension of time granted by the Registrar is required in order for the course to be considered subsequently for credit toward a degree. Documentary verification of compliance with the regulations may be required by the Registrar.

Credit for Advanced Placement Tests. Students who submit scores for Advanced Placement Tests administered by the College Entrance Examination Board will have their records evaluated by the Registrar in accordance with standards established by the appropriate departments to determine proper placement and proper credit. College credit granted will be treated as transfer credit without a grade; such credit will count toward graduation and may be used in fulfilling specific curriculum requirements. Credit may be allowed as indicated above only if the student was not obliged to use the credit earned in the advanced placement course to meet minimum high school graduation requirements.

Credit for College Level Examination Program (CLEP) Tests. The University recognizes undergraduate achievement as measured by the examinations of the College Level Examination Program. A student may submit his scores to the Registrar for evaluation and if his achievement is at or above the minimum score level established by the University, credit will be granted toward satisfying requirements and graduation as follows:

- 1) English Composition General or Subject Examination – 3 semester hours (English 1001)
- 2) Analysis and Interpretation of Literature – 3 semester hours (English 1002)
- 3) Social Science — History Test – 6 semester hours
- 4) Natural Science Test – 6 semester hours
- 5) Humanities Test – 6 semester hours
- 6) Mathematics Test – 6 semester hours

Credit for General Examinations will be granted for a scaled score equivalent to the 50th percentile based on college sophomore norms.

Students who enroll at Eastern Illinois University with transfer credits and CLEP scores on general examinations may be given CLEP credit only in those areas not duplicating transfer credit.

Credit for College-Level General Educational Development Tests. No credit toward graduation is allowed for college-level General Educational Development tests.

CREDIT BY PROFICIENCY EXAMINATIONS

Proficiency examinations may be taken for credit in undergraduate courses offered in the University in accordance with the following regulations:

- 1) The applicant must be in good standing and must fit into one of the following categories:
 - a. Be enrolled as a full-time student.
 - b. Be within fifteen semester hours of graduation.
 - c. Be a teacher who has been working regularly toward a baccalaureate degree for teacher certification.
 - d. Be in full-time residence in the summer immediately preceding the year in which application is made.
- 2) The course in which examination is requested may not duplicate substantially any course accepted for college entrance or for transfer of credit.
- 3) The applicant must obtain a recommendation in writing from the chairman of the department and approval from the dean of the college or school before the examination may be taken.
- 4) An examination for credit in an elementary college subject will not be permitted to a student who has already received credit for one or more semesters of work in advance of the course in which the examination is requested.
- 5) Proficiency examinations may not be given for credit in courses in which the student has previously received an entry on his permanent record.
- 6) In order for the student to be allowed credit, the examination must be comprehensive, and the grade must be C or higher. The symbol Cr is entered in the student's record, and the credit is not counted in averages for honors, probation, etc.
- 7) Credit earned by proficiency examinations may be counted toward a bachelor's degree subject to all of the rules that would apply if the same course had been taken in regular class attendance.
- 8) Proficiency examinations may not be given for credit in physical education services courses.
- 9) When a course in which an examination is granted is ordinarily taught by more than one member of a department, a committee of at least two members should be assigned the responsibility for the examination and the grade. This assignment is made by the chairman of the department.
- 10) Credit by proficiency examination is not granted in any portion of the first two years of work of a foreign language (through the intermediate level) to a native speaker of that language.

CLASSIFICATION OF STUDENTS

Undergraduate students are classified as follows:

Freshmen	0-29 semester hours
Sophomores	30-59 semester hours
Juniors	60-89 semester hours
Seniors	90-and above semester hours

Graduate students are those students who have completed a bachelor's degree from an accredited institution.

ACADEMIC STANDING

GRADES

The grades given in courses are as follows:

Grade	Description	Grade Point Value	Grade	Description	Grade Point Value
A	Excellent	4	E	Incomplete	—
B	Good	3	W	Withdrew-passing	—
C	Fair	2	WF	Withdrew-failing	0
D	Poor but passing	1	AU	Audit	—
F	Failure	0	Cr	Proficiency Credit	—
P	Pass				

The grade of E is given only when because of illness or some other important reason, a student's normal progress in a course is delayed. Such student must secure an instructor-approved plan which will allow completion of work no later than the end of the next term in which the course is offered and in which he is in residence. If the plan is accomplished, the instructor submits a Removal of Incomplete Form indicating the appropriate grade. If the student does not secure an instructor-approved plan or if the plan is not accomplished within the specified time-limit, the instructor will submit a Change-of-Grade Form indicating an F grade or, in special circumstances, he may grant a time extension. This requirement applies to both undergraduate and graduate courses with the exception that the time restriction does not apply to the formal papers required for degrees beyond the baccalaureate.

GRADES CHANGED

Requests to change assigned grades must be initiated by the student through the appropriate department no later than the end of the term following the one for which the assigned grade was recorded.

GRADE POINT AVERAGE¹

The number of grade points for a grade in a given course is found by multiplying the grade-point value by the number of semester hours which may be earned in the course. The grade point average is computed by dividing the total number of grade points which a student has earned in all courses taken at Eastern Illinois University by the total number of semester hours represented by those courses (excluding courses in which a student has grades of E, P, W, AU, or Cr).

A student reinstated following academic dismissal with the stipulation that his GPA is to be based on his record following reinstatement has the same cumulative GPA status as a student entering the university for the first time, i.e., he has no cumulative GPA at the time he is reinstated or enters.

DEFINITION OF SEMESTER OR TERM OF ATTENDANCE

Any term in which a student registers in the University and remains beyond the day on which the official count is taken will be considered as a semester or term attended.

¹ An example of these computations: If grades of A, B, C, D, and F are earned in courses of 2, 3, 4, 1, and 3 semester hours respectively, the grade-point average is computed as follows: Grade A, 2 semester hours yields a grade-point total of 8; grade B, 3 semester hours, yields a grade-point total of 9; grade C, 4 semester hours, yields a grade-point total of 8; grade D, 1 semester hour, yields 1 grade point; grade F, 3 semester hours, yields no grade points; and the grand totals are 26 grade points for 13 semester hours. The G.P.A. is then $26 \div 13 = 2.00$.

GOOD STANDING

A student whose cumulative grade-point average is at least 2.00 in courses taken at this university is in academic good standing.

PROBATION

A student whose cumulative grade-point average in courses taken at this university is below 2.00 but not so low as to warrant academic dismissal is on academic probation. A student reinstated on probation remains on academic probation until he earns good standing or is dismissed for low scholarship. A semester during which a student officially withdraws from the University and receives only grades of W shall not be counted as a semester of academic probation.

ACADEMIC DISMISSAL

A student is dismissed for low scholarship if:

- 1) at the end of a semester, his grade-point average for that semester is 0.00 and his cumulative grade-point average is below 2.00.
- 2) at the end of his first two semesters of attendance, his cumulative grade-point average is less than 1.00.
- 3) he has been on academic probation for two successive semesters of attendance and his grade-point average at the end of those two semesters is less than 2.00.

In the case of a student who is reinstated following academic dismissal, his semesters on probation prior to dismissal are excluded in determining whether or not he has had successive semesters on probation.

For purposes of this section (Academic Dismissal), the summer term is not counted as a semester.

POST BACCALAUREATE DEGREE STUDENTS

A post-bachelor's degree student who is enrolled either part-time or full-time for courses in the University and who is not a degree candidate must achieve the following grade-point average or be subject to academic dismissal:

Total Hours Attempted	Minimum GPA
Beyond Bachelor's	
0 - 3	1.00
4 - 10	1.50
11 - 16	1.75
17 and above	2.00

REINSTATEMENT FOLLOWING ACADEMIC DISMISSAL

Only the Committee on Admissions may reinstate a student who has been dismissed for low scholarship. While a student may submit a petition at any time, at least one grading period must elapse from the time of the academic dismissal before any student may be reinstated. At the time of reinstatement, the Committee will indicate the conditions of reinstatement.

ACADEMIC EXCLUSION

A student who has twice been dismissed for low scholarship including academic dismissal from any other institution may not be reinstated.

ACADEMIC LOAD

For purposes of certifying that a student is full time *academically*, such student must be enrolled for at least 12 semester hours each semester and at least six semester hours during a summer term.

UNDERGRADUATE STUDENT

Normal Load. The normal amount of work for a student in any semester is 15 – 17 semester hours of course work. A student may take no more than a normal load during his first semester of residence.

Maximum Load — Student Teaching Semester. No student may take more than 15 semester hours during the semester in which he does student teaching.

Summer Term. The normal load during a summer term is 6 – 9 semester hours. Overloads for the summer term may be taken if the student qualifies (see below) but may not exceed 12 semester hours of undergraduate course credit.

Overload. An overload is defined as an academic load exceeding those limits stated above, including work by correspondence, extension and/or concurrent enrollment in another college or university.

Subject to the regulations and exceptions listed below an undergraduate student may register for as many as 21 semester hours of undergraduate work.

Seniors must have a cumulative grade point average of at least 2.00.

Juniors must have a cumulative grade point average of at least 2.50.

Sophomores must have a cumulative grade point average of at least 2.75.

Freshmen must have a cumulative grade point average of at least 3.00.

A student may not enroll for an overload in his first semester of residence.

An undergraduate student may enroll for more than 21 semester hours of undergraduate work if his cumulative grade point average is at least 3.50 and he has permission of the dean of the college or school administering his major.

GRADUATE STUDENT

A graduate student may take no more than 16 semester hours during a regular semester and 9 semester hours during a summer term.

COURSE ENROLLMENT

A student may neither enroll in a course nor take a proficiency examination in a course which is prerequisite for a course for which he has credit nor may he enroll or take a proficiency examination in a course which substantially duplicates, at a lower level, a course or courses which he has already successfully completed. Should a student violate this prescription, he will not receive credit for the course toward graduation and the grade will not be included in any GPA computations.

REPEATING COURSES

A student who receives a grade of A, B, or C in a course may not repeat the course. A student who receives a D in a course may repeat the course only once. Violation of these regulations will result in the deletion of the grade and credit for the invalid repeat from the official University records.

AUDITING OF COURSES

Fees for auditing are the same as those for students taking an equivalent amount of work for credit.

Students enrolled for full time academic work must include any courses they wish to audit as part of the maximum load permitted them; change of enrollment from "audit" to "credit" or from "credit" to "audit" may be made only during the six calendar days following the first day of classes.

Students must have the approval of the instructor for auditing a course. If, in the opinion of the instructor, student exposure and effort expended in the course deserve the entry of Audit, the student will receive the course entry, Audit, on his permanent record. If not, no entry will be made.

CLASS ATTENDANCE

Academic instruction at the University operates under the principle that class attendance is necessary to the complete learning process. Therefore, students are expected to attend their classes unless prevented by illness, an official university activity, or other urgent reasons.

If the student is absent from class for a legitimate reason which is established through the University Health Service or the Office of the Assistant Dean, Student Personnel Services, the instructor should afford the student a reasonable opportunity to make up work missed, including examinations. When the absence is unexplained, no such opportunity need be afforded the student.

A student who is absent from class, for whatever reason, is held responsible for the class material covered during his absence and he is expected to turn in all the exercises, papers, etc., assigned for submission during the course. However, the instructor will not use the mere fact of absence as a factor in determining a final course grade since such evaluations are based on achievement and are expected to measure learning — not attendance.

Instructors are responsible for keeping in their classbooks accurate records of the attendance of all members of their classes. The attendance record of any student shall be submitted to the Vice President for Academic Affairs; Office of the Dean, Student Personnel Services; or Dean, Student Academic Services, upon request.

If a student is absent from a given class for more than five consecutive sessions or establishes a pattern or record of absences which becomes a matter of concern to the instructor, the instructor will notify the Office of the Assistant Dean, Student Personnel Services, of the student's absence record, requesting that inquiries concerning the reason for absence be made.

FINAL EXAMINATION CHANGES

Students with three final examinations scheduled on a single day may submit requests to change the date of one of the final examinations through the office of the Dean, Student Academic Services. Forms for such requests should be filed no later than three class days prior to the first final examination day of each term. Students should not request instructors to deviate from the published examination schedule. Requests for changes in times of final examinations, other than by reason of three in one day or medically related situations, will not ordinarily be approved.

PASS-FAIL OPTION

Eligibility. Sophomores, juniors, and seniors who are in good academic standing at pre-enrollment time.

Procedure. At pre-enrollment only, the student will indicate the course he has opted for a pass-fail grade. No change of grade basis will be made after such an indication unless the pass-fail enrollment regulation is violated.

Limit of Courses. Maximum of 12 semester hours with no more than two courses in any single semester or summer term and, within the 12 hour limit, no more than two courses in any single subject title as listed in the catalog.

Courses which are specifically designated and approved for P-F grading only, as well as one P.E. service course per semester, are not counted against the P-F option limit of courses.

Courses Excluded.

- 1000 level courses used to satisfy general education requirements may not be taken pass-fail with the exception of French 1001, German 1001, Russian 1001, and Spanish 1001.
- Professional education courses required in a teacher certification program may not be taken pass-fail.
- Courses required in the student's declared major or program and specified by course number in the catalog major description may not be taken pass-fail by students in that particular major or program.

Further, where the catalog major or program description allows a selection of courses from a set of courses identified by subject-title or course number, none of the courses in the set may be taken pass-fail by students in that major or program.

WITHDRAWAL FROM A COURSE

- Within the first ten calendar days after the first class day of a semester, a student may withdraw from a course (or from the University) without a grade.
- After the first ten calendar days following the first class day, but prior to the 45th calendar day of the semester, a student may withdraw from a course (or from the University) with a grade of W.
- A student who withdraws on or after the 45th calendar day of a semester will receive a grade of W if he is passing the course or a grade of WF if he is failing the course. However, no student may initiate withdrawal from a course (or from the University) later than a period beginning twenty-one calendar days prior to the first regularly scheduled final semester examination. Summer session cutoff dates, which are reduced proportionately, are established and announced by the Dean, Student Academic Services.
- If mitigating circumstances exist, the Dean, Student Academic Services, may upon recommendation of the Dean, Student Personnel Services, and/or the University Physician, advise the recording of a grade of W instead of a grade of WF.
- The grade of WF carries the same grade-point evaluation as the grade of F. For refund of fees, where applicable, see Section III.

WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to withdraw from the University before the end of a semester or summer term must obtain a withdrawal form from the Office of the

Assistant Dean, Student Personnel Services. Completion of this form will certify that all obligations, including the return of textbooks and library books, the return of departmental equipment loaned to the student, the return of the identification card, etc., have been met. When completed, the form must be returned to the Office of the Assistant Dean, Student Personnel Services. The student is not withdrawn until the form is completed and submitted. The student is then officially withdrawn from the University, and the Registration Office notifies appropriate departments and agencies of the withdrawal.

If a student withdraws from the University and his initial notice of intention to withdraw is made to the Office of the Assistant Dean, Student Personnel Services, and his withdrawal is completed during the first ten calendar days (except the summer term) following the first day of classes for the semester, the registration fee will be refunded. The notice of intention to withdraw should be made in person although a letter addressed to the Office of the Assistant Dean, Student Personnel Services, declaring intention to withdraw and postmarked within the stated period is deemed equivalent to the initial notice.

Policies covering the withdrawal of students from school because of a call to active military duty are administered by the Dean, Student Academic Services.

Rules governing grading practices upon withdrawal from the University are the same as for withdrawal from a course.

GRADUATION REQUIREMENTS

RESPONSIBILITY OF STUDENTS

It is the responsibility of the student to know and to observe the requirements of his curriculum and the rules governing academic work. Although the advisor will attempt to help the student make wise decisions, the ultimate responsibility for meeting the requirements for graduation rests with the student.

OPTIONAL CATALOG REQUIREMENTS

A student may choose to graduate under the requirements stated in the catalog current at his time of entrance or under the requirements stated in a subsequent catalog published prior to his graduation. However, in no case may a student combine or choose various requirements from several catalogs in order to achieve a minimal curriculum. During periods of transition, Deans, in consultation with department chairmen, are authorized to make such curriculum adjustments to graduation plans that will assure academically meaningful programs. Copies of all authorizations for exceptions must be filed in the Records Office.

REQUIREMENTS FOR THE BACHELOR'S DEGREE

The official course requirements for the baccalaureate degrees are given in Section VII. To achieve a baccalaureate degree, the student must:

- Complete 120 semester hours with a cumulative GPA of at least 2.00 in all work attempted. No more than four semester hours of physical education activity courses (six for physical education majors or minors and recreation majors) may be included in the 120 hours.
- Successfully complete one of the degree programs outlined under the college

- or one of the schools and attain a minimum GPA of 2.00 in his major area.
3. Successfully complete at least 40 semester hours in upper division courses (3000-4000 numbered courses).
 4. Earn a minimum of 42 semester hours in residence with a minimum of 32 in the junior and senior years, 12 of which must be in residence during the senior year. Cooperative degree candidates must complete 38 semester hours in residence with a minimum of 27 semester hours in residence during the junior and/or senior years.
 5. Successfully complete an examination on the constitutions of the United States and the State of Illinois. This requirement may be met by successfully completing Political Science (1104 and 2603), or 2011, and applying to the Records Office.
 6. A transfer student must successfully complete a minimum of 12 semester hours in residence in his major discipline.
 7. A transfer student must successfully complete a minimum of 56 semester hours applicable to a baccalaureate degree in senior institutions.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

A candidate for a second bachelor's degree must earn at least 144 semester hours of credit, 64 of them in residence, and meet the requirements of the programs in which he is a candidate. The two degrees may be conferred at the same time providing the student makes appropriate arrangements with the deans concerned prior to entering officially upon the programs leading to the two degrees. If the two degrees are not conferred at the end of the same semester, any additional credits needed to complete the requirements for the second degree must be earned in residence at Eastern Illinois University.

SPECIAL EXAMINATIONS

Seniors, depending upon their area of concentration, are encouraged to take one of the following examinations:

- a. For students in the Elementary and Junior High School Curriculum: The National Teacher Examination - Common.
- b. For students in the Secondary School Curriculum: either the NTE or the GRE.
- c. For all other undergraduate students: The Graduate Record Examination - Aptitude.

APPLICATION FOR GRADUATION

Degrees are granted at the close of the fall, spring, and summer terms. Students entitled to participate in commencement exercises are those whose current enrollment in correspondence, extension, and residence at this university or elsewhere makes possible the completion of all graduation requirements by the close of the semester in which commencement is held. Students may be excused from the commencement exercises by the Faculty Marshal.

Students apply for graduation by the middle of the term in which they expect to complete the following semester hours of course work:

Elementary and Junior High School Majors	80
School of Industrial Arts and Technology	80
School of Health, P.E. and Recreation	80

Medical Technology	64
All others	70

A student may expect to receive from his school or college an evaluation of his progress toward completion of graduation requirements approximately one month after the beginning of the ensuing term.

Applications for graduation may be obtained at the Records Office. The application is completed by the student and validated by the Cashier when the graduation fee is paid. Graduation fees are as follows: bachelor's degree, \$15; master's degree, \$20; specialist's degree, \$20.

All requirements for degrees must have been completed by the close of the semester in which graduation is sought. It is the student's responsibility to notify the Records Office of any non-campus courses being taken which will complete the requirements for graduation. Documentary evidence that all degree requirements have been completed must be in the Records Office by the official closing date of the semester of graduation, or within a seven-day grace period following that date. The diploma will not be given to the student and the conferral of the degree will not be recorded on the student's permanent record until all such documents have been received.

If the student does not complete graduation requirements at the end of the semester expected, he must make re-application for graduation. No additional fees will be charged.

The deadline date for applying for graduation is the tenth calendar day following the first day of classes of the semester at the end of which the candidate plans to graduate; or the fifth calendar day following the first day of classes of a summer term.

HONORS

Graduation Honors. A student whose grade-point average is at least 3.50 but less than 3.75 is graduated with honors; one whose cumulative grade-point average is 3.75 or higher is graduated with high honors.

To be eligible for graduation honors a student must have taken, by the time he graduates, a minimum of 58 semester hours at Eastern Illinois University.

In order to be announced at commencement, tentative graduation honors will be computed on the basis of the scholarship record at the end of the semester preceding the semester of graduation. However, graduation honors are recorded on the diploma and the transcript only for students who complete graduation requirements with the final cumulative grade-point averages specified above.

Semester Honors. Honors for a particular semester, announced at the close of a semester, are awarded in accordance with semester grade-point averages which must have the same value as those specified above. To be eligible for semester honors the student must have taken at least 12 semester hours in courses not graded P-F during the semester.

The calculation of grade-point average for honors determination will be based on all work taken at Eastern Illinois University.

CERTIFICATION

Candidates for teacher certification are responsible for fulfilling any special accreditation or certification requirements of the schools in which they will teach.

Cards of entitlement for teaching certificates cannot be issued until the student meets all requirements for the appropriate degree.

PLACEMENT OFFICE

Registration with the Placement Office is recommended prior to graduation with any degree.

TRANSCRIPTS

The Records Office will make a transcript of the academic record of a student when requested to do so. Unless specific instructions are given to the contrary, it is understood that the Records Office has permission of the student to send his transcript of record to employing and certifying agencies, such as schools, boards of education, businesses, state department of education, when such an agency requests it.

All requests for transcripts must be in writing, either by letter or on the request form supplied by the Records Office.

The time required for preparation and mailing of transcripts varies; during enrollment and semester end there may be a delay of several days.

A fee of one dollar is charged for each transcript issued after the first one. Fifty cents is charged for each extra copy of the transcript when more than one is made at one time. Transcripts will be issued only for students whose University records are clear.

VI. CONTINUING EDUCATION AND COMMUNITY SERVICE

ESTABLISHING CENTERS

Off-campus courses are assigned to centers where it is likely that needs and enrollment will justify the service. The Off-Campus Center concept, with a sequence of course offerings planned over a one-two year period, is becoming more popular. Requests from Educational Service Region superintendents, unit superintendents, and other agencies will be considered in planning the off-campus program.

Requests should be filed at least six months in advance of the time the course(s) are desired so that departments can arrange for staffing. The University reserves the right to cancel scheduled classes where there is evidence that the enrollment will be inadequate.

ENTRANCE REQUIREMENTS

In most instances, undergraduate classes offered off-campus will be limited to upper division level courses — open only to juniors, seniors, and graduates and subject to specific course prerequisites. Admission to undergraduate off-campus courses does not obligate Eastern Illinois University to admit a student in the regular academic year. An application for admission must be filed with the Admissions Office ten days prior to enrollment for campus classes.

Graduate students are subject to the same entrance requirements (except for the Graduate Record Exam) as those enrolling in comparable courses taught in residence. An application for admission to graduate study must be filed prior to or at the time of enrollment for the first graduate course from Eastern.

ENROLLMENT PROCEDURES

Pre-enrollment in off-campus courses is desirable. However, enrollment may be accomplished at the first or second meeting of a class. All enrollment materials and fees are to be mailed to the Continuing Education Office no later than the second class session.

FEES (Subject to Change)

Off-campus fees are \$24 per semester hour of credit, plus a \$3 book rental for each course. The same fee applies to students who audit courses.

CREDIT FOR OFF-CAMPUS COURSES

Credit, expressed in semester hours, will be given upon successful completion of off-campus courses. Students not interested in receiving credit may audit courses by receiving permission from the instructor and paying the appropriate fees.

Credit received in Eastern Illinois University courses taught by Eastern Illinois University staff members, either on or off campus, may be counted as credit in residence.

SCHOLARSHIPS

The only scholarship that is valid for off-campus courses is the Illinois Military Scholarship.

SCHEDULE OF CLASSES

The schedule of off-campus classes is printed and distributed each semester by the Continuing Education Office. Classes meet in weekly periods of one hundred eighty minutes for fifteen weeks, i.e. from 7 p.m. to 10 p.m. once per week. Please address all inquiries and requests for bulletins to the Director of Continuing Education, Eastern Illinois University, Charleston, Illinois 61920.

WORKSHOPS, CONFERENCES AND SPECIAL FEATURES

Each summer a series of workshops, short courses and/or special features are planned by various academic departments at Eastern Illinois University. Occasionally, workshops or short courses are conducted at centers away from the university campus. All workshops and short courses are coordinated through the Office of Continuing Education — requests being submitted to the Director of Continuing Education during November of each year.

VII. UNDERGRADUATE DEGREES

RESPONSIBILITY OF STUDENTS

The requirements for each baccalaureate degree, and the majors, minors, and other specialized curricula for the degrees, are described in the sections which follow. The student has the ultimate responsibility to fulfill the requirements for the degree, to check his own eligibility to take courses, and to observe the academic rules governing his program. The advisor's role is to assist him in making important decisions.

DEGREES AND MAJORS

The University offers the following undergraduate degrees with appropriate majors in its college and schools:

COLLEGE OF ARTS AND SCIENCES

LIBERAL ARTS PROGRAMS

The candidate for a liberal arts degree must complete the general education requirements and intensive study, a strong major, in the discipline of his choice. Specific requirements for the major are listed under each discipline later in the catalog. No minor is required or noted on the transcript.

Degrees

Bachelor of Arts

Economics
English
French
German
History
Mathematics

Majors

Philosophy
Political Science
Psychology
Sociology
Spanish
Speech-Communication

Bachelor of Science

Afro-American Studies
Botany
Chemistry
Computational
Mathematics
Environmental Biology
Geography

Geology
Medical Technology
Physics
Speech Pathology &
Audiology
Zoology

TEACHER EDUCATION PROGRAMS

The candidate for a secondary or special teaching certificate in liberal arts subjects must complete the general education requirements, the professional education requirements for secondary education (see School of Education and Admission to Teacher Education), and

- 1) if he wishes certification in one discipline only, a strong major in that discipline. Such majors are described under the appropriate disciplines.
- 2) if he wishes certification in two disciplines, a major and a minor in two distinct disciplines. Such majors and minors are described under the appropriate disciplines.

Degrees

Bachelor of Arts

Economics¹

English

French

German

History

Mathematics

Political Science¹*Majors*

Psychology

Social Science

Sociology

Spanish

Speech-Communication

Theatre Arts

Bachelor of Science

Botany

Chemistry

Geography

Physics

Speech Pathology &

Audiology²

Zoology

TEACHING MINORS

Afro-American Studies

Chemistry

English

French

Geography

German

History

Journalism

Latin

Library Science

Mathematics

Physics

Psychology

Russian

Social Science

Spanish

Speech Communication

COOPERATIVE PROGRAMS

These programs require completion of the general education requirements, three or more years of study at Eastern Illinois University, and completion of the program at the University of Illinois (engineering and pre-medicine) or at an affiliated hospital (medical technology).

Degrees

Bachelor of Science

Majors

Medical Technology

Engineering

Pre-Medicine

SCHOOL OF BUSINESS**PROFESSIONAL BUSINESS PROGRAM***Degree*Bachelor of Science
in Business*Majors*

Accounting

Administrative Office Management

Automated Information Systems

Finance

Management

Marketing

No minor is required or noted on the transcript.

¹ Program under consideration by State Teacher Certification Board for approved program status. Until approved, certification must be obtained through evaluation process. Consult chairman of the department.

² This is a program toward teacher certification. It does not meet the requirements for the Special Certificate-Speech and Language Clinician (for the Illinois schools) nor the American Speech and Hearing Association of Clinical Competence. To prepare for those certificates students must take this program plus the M.S. in Speech Pathology and Audiology; see the Graduate Bulletin.

TEACHER PREPARATION PROGRAM

The student who chooses to prepare himself for a teaching career in business should note admission to teacher education and required professional education courses under School of Education. The student must complete either a comprehensive business education major or a regular business education major plus a teaching minor in a non-business field.

Degree

Bachelor of Science in Education

Major

Business Education

TEACHING MINORS

Accounting

General Business

Secretarial

Typewriting and Bookkeeping

SCHOOL OF EDUCATION*Degree*

Bachelor of Science in Education

Majors

Elementary Education

Elementary-Special Education

Junior High School Education

TEACHER EDUCATION

A chief objective of the University, since its beginning, has been the preparation of exceptionally qualified teachers for the schools. Even with today's expanded curriculum including various general and professional programs, much of the University's concern continues to be teacher preparation, and a great number of the students in each graduating class are prepared to enter careers as elementary, junior high school, or secondary teachers.

Recognizing the importance of preparing the highest quality of teachers and school service personnel, the University views teacher education as a total institutional responsibility. To marshal all relevant resources to the support of the teacher education program the University has established a representative faculty Council on Teacher Education. This council reviews and adjudicates all matters pertaining to curricular change and revision, admission and retention standards for teacher education, and establishes policies governing teacher education.

Teacher preparation programs require admission to teacher education (see below), successful completion of general education courses and professional education courses, including student teaching (see Teaching Practicum, page 65), and specialized study of one or more disciplines which the student plans to teach. Upon completion of an approved program, teaching candidates are qualified to receive a bachelor's degree and are recommended for an Illinois teaching certificate as follows:

Degree

B.S.Ed.

B.A., B.S., B.S.Ed.

B.A., B.Mus., B.S.,

B.S.Ed.

*Teaching Certificate*Standard Elementary Certificate,
Grades K through 9Standard High School Certificate
Grades 6 through 12Standard Special Certificate,
Grades K through 14

The curriculum for elementary school teaching leads to the B.S. in Education degree with a standard elementary certificate.

The curriculum in special education leads to the B.S. in Education degree with a standard elementary certificate and a standard special certificate.

The curriculum for junior high school teaching leads to the B.S. in Education degree with a standard high school certificate.

High school or secondary teaching candidates who wish to prepare for teaching may be awarded the B.A., or B.S., degree from the College of Arts and Sciences with teaching certifica-

tion, the B.S.Ed. degree from the School of Business, the B.S. degree from the School of Health, Physical Education and Recreation with teaching certification, the B.S. degree from the School of Home Economics with teaching certification, the B.S. degree from the School of Industrial Arts and Technology with teaching certification, and the B.Mus. degree from the School of Fine Arts with teaching certification. See requirements under the section on majors and minors.

The secondary teaching candidate may pursue one of several degree programs and should consult the department offering the program in which he desires to major. Disciplines which offer programs for high school teachers with a standard high school certificate are: Botany, Business Education, Chemistry, Economics, English, French, German, Spanish, Geography, Health Education, History, Industrial Arts Education, Mathematics, Physical Education for Men, Physics, Political Science, Psychology, Social Science, Sociology, Speech-Communication, Theatre Arts, and Zoology. Disciplines which offer programs for high school teachers with a standard special certificate are: Art Education, Home Economics Education, Music Education, Physical Education for Men Elementary, and Physical Education for Women. High school or secondary teaching candidates must take three semester hours in U.S. history or U.S. government as well as three semester hours in health education and/or physical education.

EXPERIMENTAL SECONDARY EDUCATION PROGRAM

This is a non-traditional program designed to prepare secondary teachers in the Business Education, English, History, Political Science, Social Science or Sociology. The program is competency based and involves numerous experiences in public schools. Information concerning the program can be obtained in the Office of the Dean, School of Education, or from your major department.

Note for Transfer Students Who Pursue A Teacher Certification Program.

Although certain university general education requirements may be waived for transfer students who possess an A.A. or A.S. degree, students who desire graduation with teacher certification must meet all the course requirements of the desired certification program. In case of doubt concerning these requirements, consult the Dean, School of Education.

ADMISSION TO TEACHER EDUCATION

Admission to the University does not of itself admit a student to a teacher education program. Rather, the teaching aspirant must formally apply for teacher education through the office of the Dean, School of Education, to the University Council on Teacher Education which determines such admission.

Application forms are secured at a meeting scheduled each semester by the Assistant Dean for Instruction, School of Education. Dates of these meetings are posted outside Room 103, Applied Arts-Education Building and announced in the official notices of the *Eastern News*. At this meeting the rules and regulations pertaining to admission and retention in teacher education are explained and application forms distributed. Section 21-1 of the School Code of Illinois states in part, "No one shall be certified to teach or supervise at the public schools of the State of Illinois who is not of good character, good health, a citizen of the United States and at least 19 years of age. . . ." In addition to the qualifications required for teacher certification by the State Code the following are required by the Council for admission to teacher education:

1. A formal application.
2. At least 40 semester hours of credit.
3. A cumulative grade point average of at least 2.15,* based on all work attempted at Eastern Illinois University, the Eastern credits including at least 12 semester hours with grades of A, B, C, or D.

* Exceptions to the 2.15 grade point average requirement may be made in the following cases:

- a. A student readmitted to Eastern Illinois University in good academic standing after having been dismissed from scholarship may be admitted to teacher education if his cumulative grade point average based on all attempted work following readmission is at least 2.15 and if his post-readmission credits include at least 12 semester hours with grades of A, B, C, or D.
- b. A transfer post-baccalaureate student in good academic standing at Eastern Illinois University with an undergraduate cumulative grade point average based on all attempted college work of at least 2.15 may be admitted to teacher education before accumulating 12 semester hours of Eastern credits with grades of A, B, C, or D.
- c. A person in good academic standing at Eastern Illinois University who has an Illinois provisional teaching certificate, valid currently or during any portion of the past five years, and who has completed two or more academic years of full-time teaching in appropriate subject(s) or at appropriate level(s), or the equivalent, may be admitted to teacher education regardless of the cumulative grade point average attained.

4. Language proficiency as demonstrated by one of the following:

- a. A GPA of at least 2.00 in English 1001, 1002, and Speech-Communication 1310, or their equivalents in transfer credits. In the case of a student exempt from English 1001, the exempted course is excluded in computing this GPA. In the case of a student who has repeated one or more of these courses, only the higher grade received in each course is considered in computing this GPA.

- b. A score of at least 400 on the verbal aptitude part of the Graduate Record Examination.

5. A positive recommendation from the student's major department or committee administering the major.

6. Clearance from the University Health Service, the Speech and Hearing Clinic, and the Personnel Services Office.

A student who is refused admission to teacher education or whose admission is revoked may appeal the decision to the Council on Teacher Education. Appeal forms may be secured in the office of the Dean, School of Education.

Any student who has ever been enrolled at Eastern Illinois University, and who has received credit for courses taken, will be considered as a readmitted student. Readmitted students must follow the same rules and regulations as resident students for the purpose of admission to teacher education.

Notes:

1. Students must be admitted to teacher education 10 weeks prior to the beginning of the student teaching term.
2. Students pursuing the Board of Governors degree are not eligible for admission to the undergraduate teacher education program.

REVOCATION OF ADMISSION

Under certain conditions admission to teacher education may be revoked by the Council on Teacher Education. Major causes of revocation are explained by the Assistant Dean for Instruction, School of Education, at the scheduled admission's meeting.

TEACHING PRACTICUM (STUDENT TEACHING 4301, 4302, 4304, 4308, 4401, 4402, 4404, 4408)

A student must apply for a student teaching assignment, and be admitted to teacher education, no later than 10 weeks preceding the term in which student teaching will be accomplished. Exceptions must be approved by the Director of Student Teaching.

Participants in the teaching practicum must attain 90 semester hours or more toward graduation and comply with all regulations and qualifications relative to admittance to teacher education. Students must earn at least three semester hours of the required teaching practicum credit in the Eastern Illinois University teaching practicum program for graduation. Post baccalaureate students completing requirements for teacher certification at Eastern Illinois University must complete six semester hours of teaching practicum.

The number of semester hours of student teaching required for graduation varies with the student's curriculum. A student enrolled in elementary education-special education is required to earn 15 semester hours of credit in student teaching with 6 semester hours required in elementary student teaching and 9 semester hours in special education student teaching. A student enrolled in elementary or junior high school education must enroll for a minimum of 8 semester hours and may enroll for a maximum of 15 semester hours of credit in student teaching.

A student enrolled in a high school curriculum is required to earn 12 semester hours in student teaching which represents both minimum and maximum credit that may be earned in student teaching. Questions pertaining to student teaching should be directed to the subject area coordinator or the Director of Student Teaching.

1. Depending upon the level of concentration:
 - a. **Elementary School Curriculum.** Students must have completed Elementary Education 3240 and 3280; to student teach in the Kindergarten the student must also have completed Elementary Education 4260; to teach in an Educable Mentally Handicapped Program a student must also have completed Special Education 3300 and 4960; to teach in the area of Learning Disabilities a student must also have completed Special Education 3350.
 - b. **Junior High Curriculum.** Students must have completed Junior High School Education 3110 and 3130 or 3140 or an approved substitute. Equivalent courses submitted must be approved by the Dean, School of Education.
 - c. **High School and Special Area Curricula.** Students must have completed Secondary Education 3320 or Educational Psychology 3320 (except students in the speech pathology and audiology curriculum who take Elementary Education 2320 and 3240) and any required departmental methods courses for the subjects to be assigned them.
 - d. **Experimental Secondary Education.** The following courses constitute a program designed to cover material and experiences presently provided in Educational Psychology 3320 or Secondary Education 3320, Educational Foundation 4450, departmental methods courses and student teaching: Secondary Education 2000, 3000, 3100, and 4000.
2. An overall grade-point average of 2.10 is required for application for admission to teaching practicum. Students must also have an average of 2.10 in their teaching field at the time of application.
3. The minimum requirements established by the Office of the Superintendent of Public Instruction for teaching a subject should have been completed.
4. Transfer students must have been in residence at Eastern Illinois University for at least one semester or one summer term.
5. A tuberculin skin test must have been completed in the University Health Service during the semester prior to the teaching practicum assignment.
6. Students enrolled in off-campus teaching must assume the necessary transportation, room, and board expenses.
7. Students who participate in full-time off-campus teaching should live in the community in which they do their teaching and are expected to observe the local calendar.
8. Students engaged in the teaching practicum are expected to participate in such activities as guidance programs of the school, audio-visual programs, study hall supervision, preparation of assembly programs, field trips, dramatics, attendance at P.T.A. meetings, faculty meetings, if invited, and participate as faculty members in as many of the activities of the school and community as possible.
9. Attendance is expected at a series of seminar meetings related to the teaching practicum. Details are distributed through the Office of the Director of Student Teaching.

APPLICATION FOR ASSIGNMENT

Assignments for teaching practicum are made in the public schools in the area and in the public schools of the Chicago area.

1. A spring semester meeting is scheduled by the Director of Student Teaching for all students who plan to enroll in teaching practicum during the ensuing school year. Requests for assignment received from students within ten days of this meeting have priority. Applications submitted after the spring meeting must be made at least one term in advance of the semester in which teaching is desired. Assignments are made by the coordinators and approved by the Director.
2. Students should arrange for their teaching assignments before registering for other subjects. Teaching assignments take priority in the student's schedule. Enrollment and fees are required as with other regular course work.
3. A student engaged in teaching practicum is limited to a total load of fifteen semester hours. The number of hours of outside work permitted is restricted.

SCHOOL OF FINE ARTS

PROFESSIONAL PROGRAMS

<i>Degree</i>	<i>Majors</i>
Bachelor of Arts	Art History Art Studio Theatre Arts
Bachelor of Music	Music History-Literature Music Performance Music Theory-Composition

TEACHER PREPARATION PROGRAMS

The candidate for the degree Bachelor of Arts with a major in Art Education or Theatre Arts, or for the degree Bachelor of Music with a major in Music Education, must complete the professional education requirements for teacher certification. See Teacher Education and Admission to Teacher Education under School of Education.

<i>Degree</i>	<i>Majors</i>
Bachelor of Arts	Art Education Theatre Arts
Bachelor of Music	Music Education

TEACHING MINORS

Music Education
Theatre Arts

SCHOOL OF HEALTH, PHYSICAL EDUCATION AND RECREATION

PROFESSIONAL PROGRAMS

<i>Degree</i>	<i>Majors</i>
Bachelor of Science	Physical Education, Men Recreation

No minor is required or noted on the transcript.

TEACHER PREPARATION PROGRAM

The candidate for the Bachelor of Science with a major in Physical Education may be certified as a teacher of physical education by completing the professional education requirements. See Teacher Education and Admission to Teacher Education under School of Education.

<i>Degree</i>	<i>Majors</i>
Bachelor of Science	Health Education ¹ Physical Education, Men Physical Education, Men — for Elementary ¹ Physical Education, Women

TEACHING MINORS

Health Education
Physical Education, Men
Physical Education, Women
Safety and Driver Education (second minor only)

¹ Program under consideration by State Teacher Certification Board for approved program status. Until approved, certification must be obtained through evaluation process. Consult chairman of the department.

SCHOOL OF HOME ECONOMICS

PROFESSIONAL PROGRAM

<i>Degree</i>	<i>Major</i>
Bachelor of Science	Home Economics

No minor is required or noted on the transcript.

TEACHER PREPARATION PROGRAM

Candidates for the degree Bachelor of Science with a major in Home Economics Education must complete the professional education requirements for secondary teachers. See Teacher Education and Admission to Teacher Education under School of Education.

<i>Degree</i>	<i>Major</i>
Bachelor of Science	Home Economics Education

TEACHING MINOR

Home Economics Education

SCHOOL OF INDUSTRIAL ARTS AND TECHNOLOGY

PROFESSIONAL PROGRAM

<i>Degree</i>	<i>Major</i>
Bachelor of Science	Industrial Technology

No minor is required or noted on the transcript.

TEACHER PREPARATION PROGRAM

The candidate for the degree Bachelor of Science with a major in Industrial Arts Education must complete the professional education requirements for secondary teachers. See Teacher Education and Admission to Teacher Education under School of Education.

<i>Degree</i>	<i>Major</i>
Bachelor of Science	Industrial Arts Education

TEACHING MINOR

Industrial Arts Education

MINORS

Most programs do not require a minor. Certain minors are available, however, for students in teacher certification programs who wish to be certified in more than one discipline. The requirements are listed in the catalog. A candidate for a teacher certification degree may have entered on his permanent record those certified minors listed in the catalog.

A student who is not a candidate for a teacher certification degree and who wishes to take a minor in a discipline may do so by successfully completing a minimum of 18 semester hours in the discipline. A student who desires that such a minor be entered on his permanent record must list his minor on his application for graduation. A student adding a minor after having applied for graduation must reapply and note the addition on his reapplication. Upon certification by the dean, the minor will be entered on the student's permanent record.

STUDENTS COMPLETING TWO MAJORS OR A TEACHING MAJOR AND A NON-TEACHING MAJOR

A student who completes two non-teaching majors (example: English BA, Chemistry BS) will indicate his choice of first major to the Certifying Dean for that major. This major will determine his degree, but both majors will be noted on the certificate of graduation and on the permanent record. For example, if the above student selects English as his first major, he will receive the BA degree with majors in English and Chemistry. In such a case the student does not complete the total hours and residence requirement for two degrees.

If a student completes two teaching majors the above procedure will be followed and the student will receive a single degree but certification in two major fields.

A student who completes a non-teaching major and a teaching major may choose and initially be awarded only one major and one degree. To qualify for both degrees he must complete all the regular requirements for two degrees.

GENERAL EDUCATION REQUIREMENTS

All candidates for undergraduate degrees must complete the following requirements in general education:

English 1001 ¹ , 1002	6 sem. hrs.
Health Education 1200 ²	2
Speech-Communication 1310	3
Humanities ³	10
Social Studies ⁴	10
Mathematics-Science ⁵	10
Total	41 sem. hrs.

COURSES ALLOWED FOR THE DISTRIBUTION REQUIREMENTS IN GENERAL EDUCATION

Generally courses numbered below 4000 in appropriate disciplines may count toward fulfillment of the distribution requirement in humanities, social studies, and mathematics-science. However, the following items concerning applicability of courses should be carefully noted.

METHODS COURSES.

Courses referred to as methods courses or methods of teaching courses, even though designated as courses in appropriate disciplines may *not* count. Specifically these excluded

¹ A standard score of 26 or higher on the English section of the ACT examination exempts a student from English 1001.

² Candidates for teacher certification must have a total of three semester hours of health education and/or physical education.

³ The requirement may be completed with eight semester hours of college credit in appropriate level courses in a single foreign language. For a prescription of appropriate levels, see the chart at the beginning of the Foreign Language course descriptions in Section X. Students not completing eight semester hours in a single foreign language must complete ten semester hours in more than one of the following: literature-language, music, art, theatre arts, speech-communication, philosophy, dance.

⁴ Must be taken in more than one of the following disciplines: anthropology, economics, geography, history, political science, psychology, sociology. Home Economics 3831 also applies.

Note for Students Desiring Teacher Certification: At least six semester hours of this requirement must be from disciplines other than psychology. At least one course in U.S. history or U.S. government must be taken. Students are reminded that Psychology 2310 is a prerequisite for courses taught by the School of Education.

⁵ Must be taken in more than one of these three areas with no more than seven semester hours in any single area: biological science, mathematics, physical science. Biological science disciplines are life science, botany, zoology. Physical science disciplines are physics, geology, chemistry, earth science.

courses are: Art 2410, 2440, 3410, English 3400, French 3400, German 3400, Latin 3400, Russian 3400, Spanish 3400, Geography 3400, Life Science 3400, Mathematics 3200, 3210, 3400, Physical Science 3400, Psychology 3400, Social Science 3400, Music 2440, 3400, 3439, and Speech-Communication 3400.

HUMANITIES COURSES WHICH APPLY.

Art: Courses numbered below 4000 except that Art 1000 and 1110 may count only for art majors and minors, for industrial arts and industrial technology majors, and for junior high school curriculum with Field II in Art. Art 1400 may count only for elementary, junior high school, recreation, or special education majors.

Literature and Language: All foreign language and English courses numbered below 4000 except English 1001, 1002, 3405.

Music: Courses numbered below 4000 except that Music 1421 may count only for elementary, junior high school, and recreation majors. Music 2421, 2422, 3421, and 3423 may count only for elementary education majors. Music 1541, 1542, 1543, 1544 may count only for music majors and minors. Music courses in applied, band, orchestra, and chorus may count for no more than six semester hours for music majors and minors, three semester hours for elementary education majors, and four semester hours for other majors.

Philosophy: Philosophy courses numbered below 4000.

Speech-Communication: Speech-Communication 2300, 2320, 2340, 2540, 3170, 3230, 3300.

Theatre Arts: Theatre Arts 1133, 2240, 2281, 3333, 3431, 3751, 3752, 3920, 3960, 3990.

Dance: Physical Education 2230, 2240, 3270, 3960.

SOCIAL STUDIES COURSES WHICH APPLY.

Courses numbered below 4000 in anthropology, economics, geography, history, political science, psychology, and sociology except Geography 3800, 3810, and 3950. Home Economics 3831 may be used.

MATHEMATICS — SCIENCE COURSES WHICH APPLY.

Courses numbered below 4000 in botany, chemistry, earth science, geology, life science, physics, physical science, mathematics, and zoology except:

Mathematics: Mathematics 1220, 2220, and 3190 count only for elementary and junior high school majors.

Physical Science: Physical Science 1000 and 1010 count only for elementary and junior high school majors.

Physics: Physics 1210 counts only for music and speech-communication majors and minors.

REQUIREMENTS FOR MAJORS AND MINORS FOR UNDERGRADUATE DEGREES

ACCOUNTING (B.S. BUS.)

Major:

Accountancy 2010, 2020, 3000, 3040, 3050, 4610, 4850	30 sem. hrs.
Management 2300, 3010, 3460, 3470, 3700, 3810, 4360	21
Marketing 3470	3
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3

Total 77 sem. hrs.
(Major GPA based on (a) all business courses taken and (b) the courses constituting the specific major.)

ADMINISTRATIVE OFFICE MANAGEMENT (B.S. BUS.)

Major:

Accountancy 2010, 2020	8 sem. hrs.
Business Education 2240, 2250, 3220, 3230, 4750	15
Management 2300, 3010, 3460, 3470, 3700, 3810, 3830, 4360	24
Marketing 3470	3
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3

Total 73 sem. hrs.
(Major GPA based on (a) all business courses taken and (b) the courses constituting the specific major.)

AFRO-AMERICAN STUDIES (B.S.)

Major:

Art 3300	3 sem. hrs.
English 2705, 4750	6
History 3110, 3120, 4130	9
Music 2561	2
Sociology 2710, 3810, 4740	9
Four courses chosen from: Anthropology 2730, 3611, Geography 4580, 4760, History 3050, 3060, Music 3563, Political Science 3353, 3723, 4803, Psychology 4700, Sociology 2720, 3650, 4721	11-12

Total 40-41 sem. hrs.
(Major GPA based on specific required courses.)

Minor (for teacher certification)

Art 3300	3 sem. hrs.
English 2705, 4750	6
History 3110, 3120	6
Music 2561	2
Three courses from: Anthropology 2730, 3611, Geography 4580, History 3050, 3060, 4130, Political Science 3353, Psychology 4700, Sociology 2710, 3810, 4740	9
Total	26 sem. hrs.

ART EDUCATION (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard Special Certificate. No minor required.)

Art 1000, 1110, 2050, 2100, 2250, 2410, 2560, 2601, 2602, 2700, 3080, 3410, 3820	43 sem. hrs.
Electives from Art 2000, 2800, 3000, 3051, 3052, 3111, 3112, 3251, 3252, 3340, 3570, 3701, 3702, 3801; 4580 or 3000 level art history courses	15
Total	58 sem. hrs.

(Major GPA based on art courses only.)

ART HISTORY (B.A.)

Major:

Art 1000, 1110, 2050, 2100, 2601, 2602	22 sem. hrs.
Two courses chosen from: Art 2250, 2560, 2700, 2800	6
Electives chosen from: Art 3300, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 4400, 4750, 4760, 4790	23-25
Electives in art minor area	12
Total	63-65 sem. hrs.

(Major GPA based on art courses only.)

ART STUDIO (B.A.)

Major:

Art 1000, 1110, 2050, 2100, 2601, 2602	22 sem. hrs.
Art history courses numbered 3630 or above	6
Option I or II	36
Total	64 sem. hrs.

Option I:

(Drawing, Painting, Printmaking, Visual Communications): Art 2000, 2560; 2250 or 2700 or 2800; eighteen semester hours chosen from Art 2900, 3000, 3051, 3052, 3080, 3570, 3901, 3902, 4000, 4051, 4052, 4400, 4580; nine semester hours chosen from art history, or Option II. Total, 36 semester hours.

Option II:

(Ceramics, Jewelry and Silversmithing, Sculpture, Weaving): Art 2250, 2700, 2800; eighteen semester hours chosen from Art 3111, 3112, 3251, 3252, 3340, 3701, 3702,

3801, 3802, 4111, 4112, 4251, 4252, 4400, 4701, 4702, 4800; nine semester hours chosen from art history or Option I. Total, 36 semester hours.

(Major GPA based on art courses only.)

AUTOMATED INFORMATION SYSTEMS (B.S. BUS.)

Major:

Accounting 2010, 2020	8 sem. hrs.
Management 2300, 2310, 3010, 3310, 3320, 3330, 3460, 3700, 3810, 4360, 4610	33
One of the following: Management 3800, 3820, 4300,	3
Marketing 3470	3
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3

Total 70 sem. hrs.
(Major GPA based on (a) all business courses taken and (b) the courses constituting the specific major.)

BOARD OF GOVERNORS DEGREE PROGRAM (B.A.)

The Board of Governors degree program is an individualized, non-traditional program designed for working adults. No major is required and skills and knowledge acquired by non-academic means can be evaluated for academic credit. The residence requirement is minimal. The requirements for graduation are:

- 120 semester hours total
- 40 semester hours at the junior-senior level
- 15 semester hours completed in any order at any combination of Board of Governors universities
- 12 semester hours in social science
- 12 semester hours in humanities
- 12 semester hours in science and/or mathematics

BOTANY (B.S.)

Major:

Botany 1010; 1022 or 2503*; 2290, 2300, 3350, 3361, 3541, 4611, 4851	28 sem. hrs.
Chemistry (1310 or 1300); 1315; (1410, 1415) or (1510, 1515)	8
Geology 1400 or Earth Science 1410	4
Life Science 1000, 3010	6
Zoology 1010	4
Electives in botany	6
Electives in mathematics and science**	8

Total 64 sem. hrs.
(Major GPA based on Life Science 1000, 3010 and botany courses only.)

* An additional hour of Botany 2503 may be counted toward the botany electives requirement and five hours of Botany 2503 may be counted toward the free electives.

** Organic chemistry is strongly recommended.

BOTANY (B.S. FOR TEACHER CERTIFICATION)**Major:** (Standard High School Certificate)

Botany 1010, 1022, 2290, 2300, 3361, 3541	19 sem. hrs.
Chemistry 1310 or 1300; 1315; (1410, 1415) or (1510, 1515)	8
Geology 1400 or Earth Science 1410	4
Life Science 1000, 3010, 3400	9
Zoology 1010; 2000 or 2100; 3000 or 3100; 3300, 3700	17-19
Electives in botany	8

Total 65-67 sem. hrs.
(Major GPA based on life science and botany courses only.)

BUSINESS EDUCATION (B.S. ED.)

The student may choose either a 49-55 semester hour comprehensive major or a 38-39 semester hour major with a minor in a second teaching field.

Comprehensive Major: (Standard High School Certificate. No minor required.)

The student may choose one of three options: Comprehensive Basic Business, Comprehensive Secretarial, or Vocational Business Education. The program in Vocational Business Education and 2,000 hours of related work experience prepares the student as a reimbursable vocational business teacher as provided by the Illinois State Board of Vocational Education and Rehabilitation.

Comprehensive Basic Business Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Accountancy 2010, 2020	8
Business Education 3000, 3220, 3230, 3400, 3410, 3430	15
Management 2300, 3460, 3470	9
Marketing 3470	3
Advanced accounting courses or Management 2310 and 3310	6
Elective in business	2
Economics 2801, 2802	6
Total	55 sem. hrs.

Comprehensive Secretarial Option:

Business Education 2110 or 1120 and 2110	3-6 sem. hrs.
Business Education 2250 or 2240 and 2250	3-6
Business Education 3000, 3220, 3230, 3400, 3420, 3440, 4750	18
Management 2010, 2300, 3460, 3470	12
Accountancy 2010	4
Elective in business	3
Economics 2801, 2802	6
Total	49-55 sem. hrs.

Comprehensive Vocational Business Education Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Accountancy 2010	4
Business Education 3000, 3400, 4920, 4940	11
Management 2300, 3460, 3470	9
Economics 2801, 2802	6

Office Occupations Emphasis or Marketing Emphasis	19
Total	55 sem. hrs.

Office Occupations Emphasis:

Two of Business Education 1240, 1250, 2240, 2250
Management 2010
Business Education 3220, 3230
One of Business Education 3420, 3440
Two semester hour elective in business

Marketing Emphasis:

Accountancy 2020
Business Education 3410
Marketing 3470, 3480, 3490
Three semester hour elective in business

(Major GPA based on all business courses taken.)

BUSINESS EDUCATION (B.S. ED.)

Major: Minor in a non-business teaching field required. (Standard High School Certificate) The student may choose one of three options: Accounting and Secretarial; Accounting; Secretarial.

Accounting and Secretarial Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Two of Business Education 1240, 1250, 2240, 2250	6
Accountancy 2010, 2020	8
Business Education 3220, 3400, 3430	7
Management 3460	3
One of Business Education 3420, 3440	2
Economics 2801, 2802	6
Total	38 sem. hrs.

Accounting Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Accountancy 2010, 2020	8
Business Education 3000, 3400, 3430	7
Management 3460, 3470	6
Advanced accounting courses	6
Economics 2801, 2802	6
Total	39 sem. hrs.

Secretarial Option:

Business Education 2110, 2240, 2250, 3000, 3220, 3230, 3400, 3420, 3440	24 sem. hrs.
Management 2010, 3460, 3470	9
Economics 2801, 2802	6

Total 39 sem. hrs.
(Major GPA based on all business courses taken.)

Minor: (Four options) (for teacher certification)

Accounting Option:

Accountancy 2010, 2020	8 sem. hrs.
Business Education 3400, 3430	4
Management 3010	3
Advanced accounting courses	9
Total	24 sem. hrs.

General Business Option:

Accountancy 2010, 2020	8 sem. hrs.
Business Education 3000, 3400, 3410	7
Management 2010, 3460, 3470	9
Total	24 sem. hrs.

Secretarial Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Two of Business Education 1250, 2240, 2250	6
Business Education 3220, 3230, 3400	8
One of Business Education 3420, 3440	2
Elective in business	2
Total	24 sem. hrs.

Typewriting and Bookkeeping Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Accountancy 2010, 2020	8
Business Education 3220, 3400	5
One of Business Education 3430, 3440	2
Elective in business	3
Total	24 sem. hrs.

CHEMISTRY (B.S.)

Major:

Chemistry 1310 or 1300; 1315, 1510; 1720 or (1515 and 2340)	10-11 sem. hrs.
Chemistry 2830, 2835, 2840, 2845, 3000, 3910, 3920, 4000, 4760, 4770, 4780, 4900, 4905	29
Electives chosen from Chemistry 3460, 4400, 4940	6
Mathematics 2351, 2352	8
Physics 1350, 1360	8
Total	61-62 sem. hrs.

(Major GPA based on chemistry courses only.)

CHEMISTRY (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Chemistry 1310 or 1300; 1315, 1510; 1720 or (1515 and 2340)	10-11 sem. hrs.
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Chemistry 2830, 2835, 2840, 2845, 3100, 3460, 3910, 4760, 4780, 4900, 4905	26
Mathematics 2351, 2352	8
Physical Science 3400	3
*Physics 1350, 1360	8
Total	55-56 sem. hrs.

(Major GPA based on Physical Science 3400 and chemistry courses only.)

Minor: (for teacher certification)

Chemistry 1310 or 1300; 1315; (1410 and 1415) or (1510 and 1515)	8 sem. hrs.
Chemistry 2430, 2435	5
Electives chosen from Chemistry 2340, 2440, 3460	3-4
Physical Science 3400	3
*Physics 1350, 1360	8
Total	27-28 sem. hrs.

*Students who wish to teach physics should take a minimum of 10 semester hours in order to meet certification requirements.

COMPUTATIONAL MATHEMATICS (B.S.)

Major:

Mathematics 2310, 2351, 2352, 2353, 2670, 3501, 3502, 3531, 3532, 3570, 3670, 3701, 3702, 3770, 4080	57 sem. hrs.
Management 2310	3
Electives chosen from: Management 3320, Mathematics 4760, Physics 1350, 1360, 3150	6-8
Total	66-68 sem. hrs.

(Major GPA based on mathematics courses only.)

ECONOMICS (B.A.)

Major:

Economics courses including 2801, 2802, 4801, 4802, 4991, and excluding 3810, 4859	36 sem. hrs.
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(Major GPA based on economics courses only.)

ECONOMICS (B.A. FOR TEACHER CERTIFICATION)

(Program under consideration by State Teacher Certification Board for approved program status. Until approved, certification must be obtained through evaluation process. Consult the chairman of the department.)

Major: (Standard High School Certificate)

Economics 2801, 2802, 4801, 4802, 4991	15 sem. hrs.
Social Science 3400	3
Electives in economics	21
Choice of one of the options listed below	12-16
Total	51-55 sem. hrs.

- I – 8 sem. hrs. in U.S. History and 8 sem. hrs. in European History. Total, 16 sem. hrs.
 II – 8 sem. hrs. in each of two of the following: geography, political science, sociology.
 Total, 16 sem. hrs.
 III – 12 sem. hrs. in accounting or 6 sem. hrs. in each of two business subjects to be chosen
 from the following: accounting, data processing, business law, salesmanship (including
 marketing and advertising).

(Major GPA based on Social Science 3400 and economics courses only.)

ELEMENTARY EDUCATION (B.S. ED.)

This curriculum offers a choice of three options: Early Childhood (kindergarten and grades one, two, and three); Intermediate (grades four, five, and six); and Comprehensive (grades one through eight). Special option requirements are listed below.

Required Courses

The following constitutes the list of requirements (including the all-university requirements) in the elementary curriculum. The student and the advisor must cooperate in planning the sequence. Courses used to satisfy the requirements in one Area of Concentration may not be used to satisfy the requirements in another Area of Concentration.

Art 1400	3 sem. hrs.
Elementary Education 1230, 2320, 3240, 3270, 3280, 3290	17
Educational Foundation 4450	3
English 1001, 1002	6
Health Education 1200	2
Life Science 1000	3
Mathematics 2220*, 3190	5
Music 1421	2
Physical Education 3600	2
Physical Science 1000, 1010	**4
Psychology 2310	3
Natural Science elective	3
Social Studies electives	6
Speech-Communication 1310	3
Student Teaching 4308	8
U.S. History or U.S. government	3
Humanities	5
Subject concentration(s)	20-22
Electives as needed to complete 120 semester hours	

One of the following options:

Early Childhood Education:

English 3405; Mathematics 3200; two of the following: (Industrial Arts 2242), (Music 3423), (Art 2440). Students wishing to do student teaching in nursery-kindergarten must take Elementary Education 4260. Total, 9-13 sem. hrs.

Intermediate:

Mathematics 3210; two of the following: (Industrial Arts 2252), (Music 3421), (Art 2440). Total, 6-7 sem. hrs.

Comprehensive:

Mathematics 3200 or 3210; two of the following: (Industrial Arts 2242 or 2252), (Music 3421 or 3423), (Art 2440). Total, 6-7 sem. hrs.

* Placement in these courses (or permission to omit them) will be determined by the Mathematics Department.

** Four semester hours in physics or chemistry, including laboratory work, will fulfill this requirement.

Subject Areas of Concentration

Areas of Concentration consist of courses taken in addition to the General Education

Requirements. Any deviation from courses indicated here must be approved by the Dean of the School of Education. Transfer students will have their completed course work evaluated by the Dean of the School of Education or his designated representative.

Students must select two Areas of Concentration, one to consist of at least 12 semester hours and the other of 8 or 9 hours for a minimum of 20 or 21 semester hours. In certain instances, identified in the following list, a single combined concentration may be accepted in lieu of the two different areas.

The concentrations may be planned so as to supplement the student's professional goals or personal interest. In doing so students are invited to seek the assistance of their advisors.

In arranging their concentrations students should remember that their total program must include a minimum of 40 semester hours of upper division credit. For the area chosen students must take the courses specifically identified by number plus sufficient electives to complete their areas.

Art: 3090, 3190; electives.

Biological Science: Botany 1010*, 1022; Zoology 1010*; electives.

*If not used to satisfy General Education Requirements.

English: 2701 or 2702; 2901 or 3001; electives.

Foreign Language: 12 or 8 hours in a single language.

Foreign Language (combined concentration): 22 semester hours in a single language.

General Science (combined concentration): Botany and/or Zoology, 9 semester hours; Physics, Chemistry, Geology-Earth Science, 9 semester hours; electives, 3 semester hours. Total, 21 semester hours.

Geography: Earth Science 1420 or 3000; Geography 1500 or 3020; electives from Geography, Geology-Earth Science.

History: 2010 or 2020; 1510 or 1520; electives.

Home Economics-Health Education: Health Education 3200; Home Economics 3820* or 4840*; electives.

*Prerequisites for these two courses are waived for elementary education majors.

Library Science: 12 or 8 semester hours in library science electives.

Library Science (combined concentration): Library Science 3200, 3300, 3320, 4490, 4750, 4760, 4770. Total, 21 semester hours. (Students choosing this concentration do *not* need to take English 3405.)

Mathematics: 4820; electives other than Mathematics 1290.

Music: Music 1136 or 1137, 1203, 1204, 2136, 2203, 2204, 3561, 3562, 3563, 3564.

Nursery-Kindergarten Education: Elementary Education 3260, 4260; Home Economics 3853; electives to be chosen from Home Economics 4859, PE 3620, Speech Pathology and Audiology 4800.

Physical Education: PE 3610, 3620, 3630; suggested electives are Health Education 3200, PE 4320.

Physical Science: (Physics, Earth Science-Geology, Chemistry). Work in both chemistry and physics must be included.

Psychology: Select courses compatible with professional goals and interests.

Social Studies: Select from the following with a minimum of three disciplines being represented: Anthropology, Economics, History, Geography, Political Science, Psychology, Sociology.

Speech-Communication — Theatre Arts: Both disciplines must be represented. Select courses compatible with professional goals and interests.

Speech Pathology and Audiology: 2140, 2210, 4800.

FLEXIBLE PROGRAM FOR ELEMENTARY MAJORS WITH A 3.50 CUMULATIVE GPA

An experimental program has been designed for a restricted number of Elementary Education majors with a cumulative grade point average of 3.50 or higher. The primary objective of the program is to provide students maximum flexibility in developing a program to meet their needs and interests. The curriculum listed below meets the all-university general education requirements as well as Illinois State requirements for teacher certification.

Students eligible to enter the program may submit an application to the chairman of the Department of Elementary and Junior High Education after completing 32 semester hours.

Art 1400	3 sem. hrs.
Elementary Education 2320, 3240, 3270, 3280	12
Educational Foundations 4450	3
English 1001, 1002	6
Health Education 1200	2
Life Science 1000	3
Mathematics Electives	5
Music 1421	2
Physical Education 3600	2
Physical Science 1000, 1010	4*
Psychology 2310	3
Science Elective	3
Social Studies Electives	6
Speech-Communication 1310	3
Student Teaching 4308	8
U.S. history or U.S. government	3
Humanities	5
Electives	47
Total	120 sem. hrs.

* Four semester hours in physics or chemistry, including laboratory work, will fulfill this requirement.

ELEMENTARY EDUCATION-SPECIAL EDUCATION (B.S. ED.)

Successful completion of this program leads to certification both as an elementary teacher and as a special education teacher in one or two of the following areas: Educable Mentally Handicapped or Learning Disabilities or Socially/Emotionally Maladjusted. Fifteen semester hours (six in elementary education and nine in one or two areas of special education) of student teaching are required.

By judiciously choosing his special education electives, a student may satisfy the requirements (with the exception of the practicum) for two areas of special education. Individuals desiring certification in more than one special education area should note that their program might extend beyond the minimum 120 semester hours required for graduation.

A limited number of opportunities will exist for students to include two areas of Special Education in their nine hours of student teaching. This may be accomplished through practicums in two special areas, or by a single integrated practicum including two areas of Special Education.

Required courses

The following constitutes the list of requirements (including the all-university requirements) in the elementary curriculum. The student and the advisor must cooperate in planning the sequence.

Art 1400	3	sem. hrs.
Elementary Education 1230, 2320, 3240, 3270, 3280, 3290	17	
Educational Foundation 4450	3	
English 1001, 1002	6	
Health Education 1200	2	
Life Science 1000	3	
Mathematics 2220*, 3190; 3200 or 3210	7	
Music 1421	2	
Physical Education 3600	2	
Physical Science 1000, 1010	4**	
Psychology 2310	3	
Science	3	
Speech-Communication 1310	3	
Student Teaching 4301, 4302, 4304, 4308	15	
U.S. history or U.S. government	3	
Select from two areas: (Art 2440), (Industrial Arts 2242 or 2252), (Music 3421 or 3423)	4-5	
Humanities electives	5	
Social studies electives	6	
Special Education Requirements listed below	22-25	
Electives as needed to complete 120 semester hours		

Special Education Requirements. Students will select one of the following sets of requirements:

Educable Mentally Handicapped: Special Education 2500, 3300, 4960, Educational Psychology 4990; Electives from: Special Education 3350, 3400, 4660, 4870, 4880, 4980, 4990, Educational Psychology 4770, Psychology 3550, Speech Pathology and Audiology 4800. Total, 23 semester hours.

Learning Disabilities: Special Education 2500, 3350, 4980, 4990; Electives from: Special Education 3300, 3400, 4660, 4960, 4870, 4880, Educational Psychology 4770, 4990, Psychology 3550, Speech Pathology and Audiology 4800. Total, 23 semester hours minimum.

Socially and Emotionally Maladjusted: Special Education 2500, 4660, 4870, 4880; Electives from: Special Education 3300, 3350, 3400, 4960, 4980, 4990, Educational Psychology 4770, 4990, Psychology 3550, Speech Pathology and Audiology 4800. Total, 23 semester hours minimum.

* Placement in these courses (or permission to omit them) will be determined by the Mathematics Department.

** Four semester hours in physics or chemistry, including laboratory work, will fulfill this requirement.

ENGINEERING (B.S.)

This cooperative degree program, administered by the Pre-Engineering Studies Committee, requires about three years of work at Eastern Illinois University followed by two years of work at the University of Illinois. It is designed to provide engineering students with a broader base of liberal arts than is usually given in a four-year curriculum. Upon completion of the program the student receives a Bachelor of Science degree from Eastern Illinois University and a Bachelor of Science in Engineering degree from the University of Illinois. Interested students should consult with the chairman of Pre-Engineering Studies Committee for detailed requirements of the program.

Specific Courses:

Chemistry 1310, 1315, 1510, 1515	8 sem. hrs.
English 1001, 1002	6
Health Education 1200	2
Humanities electives	10
Industrial Arts 1043	3
Mathematics 1340 or 1320; 2351, 2352, 2353, 3501	17 or 19
Physics 1350, 1360, 2370, 2390, 2400	17
Speech-Communication 1310	3
Social Studies electives	10

Total 76 or 78 sem. hrs.
 Elective credit to bring the total to 90 semester hours.

After completing 60 semester hours in this curriculum, a student may apply to the Pre-Engineering Studies Committee for admission as an engineering candidate. The requirements for admission as an engineering candidate are minimum grade-point average of 2.50 and approval by the committee. Continuation as an engineering candidate requires maintaining a minimum grade-point average of 2.50.

A student who transfers into this curriculum from another college or university must be in residence at Eastern Illinois University for at least one semester before he becomes eligible for admission as an engineering candidate.

ENGLISH (B.A.)**Major:**

English 2601, 4300	8 sem. hrs.
Twelve three-semester-hour courses, selected to satisfy groups 2 through 12, and also so that the student has at least three courses in one group of his choosing	36
Second year of a foreign language (or equivalent)	8
Total	52 sem. hrs.

Note: The twelve groups are listed in Section X under English, and are also indicated in the course description.
 (Major GPA based on English courses only.)

ENGLISH (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate. No minor required.)

English 2601, 3400, 4300	11 sem. hrs.
Eleven three-semester-hour courses, selected to satisfy groups 2 through 12 and including 2901 and 3901 in group 2	33
Second year of a foreign language (or equivalent)	8
Total	52 sem. hrs.

(Major GPA based on English courses only.)

ENGLISH (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate. A minor is required.)

English 2601, 3400, 4300	11 sem. hrs.
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Nine three-semester-hour courses, selected to satisfy groups 2, 3, 4, 5, 8, 11, 12, 6 or 7, and 9 or 10 and including 2901 and 3901 in group 2

Second year of a foreign language (or equivalent)

Total 46 sem. hrs.
 (Major GPA based on English courses only.)

Minor: (for teacher certification)

English 2601, 2901, 3400	10 sem. hrs.
Three three-semester-hour courses, selected to satisfy three of the following groups: 3, 7, 9, 10, 12	9
Total	19 sem. hrs.

ENVIRONMENTAL BIOLOGY (B.S.)**Major:**

Botany 1010, 1022, 2290, 3350, 3541	16 sem. hrs.
Botany 3361 or Zoology 3200	3
Chemistry 1310 or 1300, 1315, 1410, 1415	8
Earth Science 1410 or 1420 or Geology 1400	3-4
Economics 3810	3
Life Science 1000, 3010, 4080, 4750	21
Zoology 1010; 2000 or 2100; 3100, 3300, 3700	18-19
Two of the following: Botany 4611, Zoology 4800, 4810	6
Two of the following: Geography 3870, Political Science 3733, Sociology 3622	6

Total 84-86 sem. hrs.
 (Major GPA based on life science, botany, and zoology courses only.)

FINANCE (B.S. BUS.)**Major:**

Accountancy 2010, 2020	8 sem. hrs.
Management 2300, 3010, 3460, 3700, 3710, 3720, 3810, 4200, 4360, 4830	30
Three of the following: Management 3470, 3900, 4390, 4840	9
Marketing 3470	3
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3

Total 73 sem. hrs.
 (Major GPA based on (a) all business courses taken and (b) the courses constituting the specific major.)

FOREIGN LANGUAGE — FRENCH, GERMAN, OR SPANISH (B.A.)**Major:**

A major in French, German, or Spanish shall consist of 32 semester hours in one language beyond the first 12 semester hours of college work in that language.

Note: Students with a background of high school units in foreign language do not receive university credit for those units. See Section X under Foreign Languages. (Major GPA is based on courses in the major only.)

FOREIGN LANGUAGE — FRENCH, GERMAN, OR SPANISH (B.A. FOR TEACHER CERTIFICATION)**Major:** (Standard High School Certificate)

A major in French, German, or Spanish shall consist of a minimum of 35 semester hours beyond the first 12 semester hours of college work in one language. The methods course (3400) in that language must be included.

Note: Students with a background of high school units in French, German, or Spanish do not receive university credit for those units. See Section X under Foreign Languages. (Major GPA is based on courses in the major only.)

FOREIGN LANGUAGE — FRENCH, GERMAN, LATIN, RUSSIAN, OR SPANISH**Minor:** (for teacher certification)

A minor may be taken in French, German, Latin, Russian, or Spanish. Each minor shall consist of a minimum of 24 semester hours in one language (including methods 3400), starting with courses numbered 1102 or above. A student with credit for a methods course (3400) in some other foreign language has the option to take the methods (3400) in his minor language or another course in his minor to complete the 24 semester hours, in the same language, for certification. For a student with high school credits in that language the 24 semester hour requirement is reduced by one semester hour for each high school unit up to a maximum reduction of four semester hours.

Note: Students with a background of high school units in a foreign language do not receive university credit for those units. See Section X under Foreign Languages.

GEOGRAPHY (B.S.)**Major:**

Courses chosen from Earth Science 1410 or 3010; 1420 or 3000; 2420	6-7 sem. hrs.
Courses chosen from Geography 3020, 3510, 3720, 4510, 4520, 4530, 4550, 4580	6-8
Courses chosen from Geography 1500, 3600, 3620, 3650, 3750, 3870, 3950, 4700, 4710, 4730, 4760	6
Courses chosen from Geography 3800, 3810, 4770, 4780, 4800	6-8
Geography electives	12

Total 36-41 sem. hrs.

(Major GPA based on earth science and geography courses only.)

GEOGRAPHY (B.S. FOR TEACHER CERTIFICATION)**Major:** (Standard High School Certificate)

Courses chosen from Earth Science 1410 or 3010; 1420 or 3000; 2420	6-7 sem. hrs.
Courses chosen from Geography 3020, 3510, 3720, 4510, 4520, 4530, 4550, 4580	6-8
Courses chosen from Geography 1500, 3600, 3620, 3650, 3750, 3870, 3950, 4700, 4710, 4730, 4760	6
Courses chosen from Geography 3800, 3810, 4770, 4780, 4800	6-8
Geography 3400 or Social Science 3400	3
Geography electives	12

Total 39-44 sem. hrs.

(Major GPA based on earth science and geography courses only.)

Minor: (for teacher certification)

One of the following: Earth Science 1410, 1420, 2420, 3000, 3010	3-4 sem. hrs.
One of the following: Geography 3020, 3720, 4510, 4520, 4530, 4550, 4580	3
One of the following: Geography 1500, 3600, 3620, 3650, 3750, 3870, 3950, 4700, 4710, 4730, 4760	3
One of the following: Geography 3800, 3810, 4770, 4780, 4800	3-4
Geography 3400 or Social Science 3400	3
Geography electives	6
Electives in social studies (except psychology)	6-5

Total 27-28 sem. hrs.

GEOLOGY (B.S.)**Major:**

Chemistry 1300 or 1310; 1315; (1410, 1415) or (1510, 1515)	8 sem. hrs.
Electives chosen from Geology 3460, 4400, Earth Science 2420, Geography 3800, 4800	7
Geology 1400, 2430, 2440, 3430, 3440, 3450, 4450, 4490	25
Life Science 1000	3
Mathematics 1300, 1310, 1340	8
Physics 1350	4
Zoology 1010 or Botany 1010	4

Total 59 sem. hrs.

(Major GPA based on earth science, geography, and geology courses only.)

HEALTH EDUCATION (B.S. FOR TEACHER CERTIFICATION)

(Program under consideration by State Teacher Certification Board for approved program status. Until approved, certification must be obtained through evaluation process. Consult the chairman of the department.)

Major: (Standard High School Certificate)

Health Education 2270, 3200, 3400, 3750, 4000, 4010, 4020	20 sem. hrs.
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Life Science 1000	3
Zoology 3000 or Zoology 3100	3 or 4
Nine or ten semester hours chosen from: Botany 2340 or Home Economics 3190; Health Education 1320 or 3000; 2900, 4800, 4820, 4900, 4996; Home Eco- nomics 2800 or Sociology 4730; Life Science 3010, Psychology 3550, Sociology 4702	
	9 or 10

Total 35-37 sem. hrs.
(Major GPA based on health education courses only.)

Minor: (for teacher certification)

Health Education 1200, 2270, 3200, 3400	10 sem. hrs.
Life Science 1000	3
Psychology 3550	2
Twelve semester hours chosen from: Health Educa- tion 1320 or 3000, 2900, 3750, 4800, 4820, 4900, 4996; Home Economics 2800, 3190; Life Science 3010; Zoology 1010 or 2000; 3000	
	12
Total	27 sem. hrs.

HISTORY (B.A.)

Major:

History 1510, 1520, 2010, 2020; 3510 or 3520; 4500	17 sem. hrs.
History electives above 3000 to include six semester hours in American history (U.S. or Latin American) and six semester hours in non-American history	
	25
Total	42 sem. hrs.

(Major GPA based on history courses only.)

HISTORY (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate. No minor required.)

History 1510, 1520, 2010, 2020; 3510 or 3520; 4500	17 sem. hrs.
History electives above 3000 to include three semester hours in U.S. history, three semester hours in American history (U.S. or Latin American), and six semester hours in non-American history	
	19
Social Science 3400	3

Total 39 sem. hrs.
(Major GPA based on Social Science 3400 and history courses only.)

HISTORY (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate. A minor is required.)

History 1510, 1520, 2010, 2020; 3510 or 3520; 4500	17 sem. hrs.
History electives above 3000 to include three semester hours in U.S. history, three semester hours in	

American history (U.S. or Latin American), and six semester hours in non-American history	15
Social Science 3400	3

Total 35 sem. hrs.
(Major GPA based on Social Science 3400 and history courses only.)

Minor: (for teacher certification)

U.S. history	9 sem. hrs.
American history (U.S. or Latin American)	3
Non-American history	12
Social Science 3400*	3

Total 27 sem. hrs.
*Social Science 3400 may be omitted if the student has credit in a methods course in one of
the following: business education, English, foreign language, geography, life science,
mathematics, physical science, or speech.

HOME ECONOMICS (B.S.)

Major: (Home Economics)

Dietetics Option:

Botany 2340	3 sem. hrs.
Chemistry 1310, 1315, 1410, 1415, 2430, 3460	16
Economics 2801	3
Elementary Education 2320	3
Home Economics 1120, 1150, 2120, 3120, 3140, 3150, 3400, 4140, 4150	24
Management 3010	3
Mathematics 1250	4
Psychology 2310, 3620	6
Sociology 2710	3
Zoology 3000	3
Area I or II or III	0-7

Area I (Food Service Management): Accounting 2010, Management 3450.
Total - 7.

Area II (Education): no additional courses.

Area III (Experimental and Developmental Foods): Home Economics 3920,
Marketing 3500. Total - 5.

Total 68-75 sem. hrs.

Home Economics in Business Option:

Economics 2801, 2802	6 sem. hrs.
Home Economics 1150, 2244, 2250, 2270, 3300, 3920, 4300	17
Journalism 3102	2
Management 2010	3
Marketing 3470	3
Psychology 2310; 3550 or 4870	5-6
Area I or II or III	34-46

Total 70-83 sem. hrs.
Area I (Foods and Nutrition): Home Economics 1120, 2120, 2251, 2800,
2850, 3120, 3140, 3150, 3307, 3925, 4140; Management 1420; Market-
ing 3500; Botany 2340; Chemistry 1100, 1110. Total, 45 sem. hrs.

Area II (Clothing and Merchandising): Home Economics 2231, 2232, 2245, 2251, 3236, 3237, 3370, 3925, 4238, 4280; Marketing 3480. Total, 34 sem. hrs.

Area III (Consumer Affairs): Home Economics 1120, 2800, 3370, 4840; Mathematics 1250 or higher; Sociology 2710; Psychology 4780; Accountancy 2010, 2020, 2200; Management 3460, 3700, 3720, 3900; Marketing 3720. Total, 46 sem. hrs.

Family Service Option:

Educational Guidance 4900	3 sem. hrs.
Home Economics 1120, 1150, 2120, 2244, 2250, 2270, 2800, 2850, 3140, 3150, 3300, 3307, 3370, 3820, 3853, 4300, 4840, 4845, 4846, 4851, 4854, 4859	58
Psychology 2310, 3520, 3550	7
Sociology 2710, 2720, 3600, 3791, 3810	15

Total 83 sem. hrs.
(Major GPA based on home economics courses only.)

HOME ECONOMICS EDUCATION (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard Special Certificate. No minor required.)

Home Economics 1120, 1150, 2120, 2244, 2250, 2270, 2800, 2850, 3300, 3307, 3400, 3371, 4400	39 sem. hrs.
(Chemistry 1100, 1110, Botany 2340) OR (Life Science 1000, Botany 2340, Zoology 1010, and a 3 sem. hr. course in either mathematics or chemistry)	10-13
Economics 2801, Psychology 2310	6
U.S. history or U.S. government	3
One Group I Area of Concentration listed below	11-14
One Group II Area of Concentration listed below	5-6
Total	74-81 sem. hrs.

Note: Home Economics Education majors take only 8 sem. hrs. of Student Teaching.

Group I Areas of Concentration: (choose one)

A — Child Development:

Home Economics 3853, 4851, 4854, 4859, elective in child development or family life. Total, 13-14 sem. hrs.

B — Clothing and Textiles:

Home Economics 2245, 3236, 3237, elective in clothing and textiles. Total, 13-14 sem. hrs.

C — Family Life Education:

Home Economics 4840, 4845, 4846, elective in child development or family life. Total, 11-12 sem. hrs.

D — Foods and Nutrition:

Home Economics 3120, 3140, 3150, electives in foods and nutrition. Total, 13 sem. hrs.

Group II Areas of Concentration: (choose one *unlike* your Group I choice)

A — Child Development:

Courses chosen from Home Economics 3853, 4851, 4854, 4859. Total, 5-6 sem. hrs.

B — Clothing and Textiles:

Courses chosen from Home Economics 2231, 2232, 2245, 3236, 3237, 4237, 4238. Total, 5-6 sem. hrs.

C — Family Life Education:

Courses chosen from Home Economics 3820, 3853, 4840, 4845, 4846, 4940. Total, 5-6 sem. hrs.

D — Foods and Nutrition:

Courses chosen from Home Economics 2120, 3120, 3140, 3150, 4140, 4150. Total, 5-6 sem. hrs.

E — Consumer Education and Management:

Courses chosen from Home Economics 3925, 4280, 4300. Total, 5-6 sem. hrs.

F — General Home Economics:

Courses chosen from Home Economics 2251, 3750, 3920, 4280, 4940. Total, 5-6 sem. hrs.

(Major GPA based on home economics courses only.)

Minor: (for teacher certification)

Home Economics 1120, 2800, 2850, 3236, 3400; 2244 or 3300	18-19 sem. hrs.
Electives in home economics	6-5

Total 24 sem. hrs.

INDUSTRIAL ARTS EDUCATION (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate. No minor required.)

Industrial Arts 1013, 1412, 2052, 3400	10 sem. hrs.
One course in each of four areas to be selected from electronics, graphic arts, industrial crafts, metals, power, and woods	12
Concentrations. The student will choose two subject areas for additional work of no less than 9 semester hours each from electronics, graphics, graphic arts, metals, power, and woods	18
Chemistry and/or Physics	7-8
Mathematics 1310	2
Industrial Arts or Industrial Technology electives	12

Total 61-62 sem. hrs.
(Major GPA based on industrial arts courses only.)

Minor: (for teacher certification)

Industrial Arts 1013, 1412, 2052, 3400	10 sem. hrs.
One course in each of three areas to be chosen from electronics, graphic arts, industrial crafts, metals, power, and woods	9
Industrial Arts or Industrial Technology electives*	5
Total	24 sem. hrs.

* State certification requires a minimum of 24 semester hours for teaching in the general laboratory. To teach in a unit laboratory the certification requirement is 8 semester hours in that specified field.

INDUSTRIAL TECHNOLOGY (B.S.)**Major:**

Chemistry 1300 or 1310; 1315; 1510, 1515	8 sem. hrs.
Economics 2801, 2802, 3890	9
Health Education 3350	2
Industrial Arts 1043, 1163, 3063	9
Industrial Technology 1013, 3003, 3012, 3043, 4002, 4043	16
Management 3010, 3830, 4340	9
Management 2300 or Mathematics 2310	3
Mathematics 1340, 2340	6
Physics 1350, 1360	8
Psychology 3530	2
Option I or II or III or IV	15
Total	89 sem. hrs.

Option I:

Electronics: A minimum of 15 semester hours of course work including Physics 3150 and study in the areas of industrial communications, vacuum tubes, semi-conductors, industrial instrumentation and industrial electronics.

Option II:

Construction: A minimum of 15 semester hours of course work including study in the areas of architectural planning, surveying, cost estimating, practices of construction and business law.

Option III:

Metal Work: A minimum of 15 semester hours of course work including study in the areas of casting, metallurgy, welding, sheet metal and advanced machine shop.

Option IV:

General: A minimum of 15 semester hours of in-depth technological course work selected by the student in consultation with his advisor and approved by the chairman of the department. The approved plan of study must be submitted to the certifying dean no later than the end of the semester in which the student will have earned 75 semester hours of credit. This submitted plan shall become a part of the degree requirements for the major.

(Major GPA based on specified courses only.)

JOURNALISM**Minor:** (for teacher certification)

Journalism 2100, 2101, 2102, 3100, 3101, 4800	18 sem. hrs.
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JUNIOR HIGH SCHOOL EDUCATION (B.S. ED)

This curriculum is intended to prepare teachers for grades six, seven, eight, and nine. The student must choose a major field of specialization and a minor field of specialization, or three minor fields of specialization.

Required Courses

Elementary Education 1230, 2320	5 sem. hrs.
Junior High School Education 3110; 3130 or 3140; 4280	9

Educational Foundation 4450	3
English 1001, 1002	6
Health Education 1200	2
Psychology 2310, 3520	5
Speech-Communication 1310	3
Student Teaching 4308	8
Humanities (see General Education Requirements)	10
Mathematics-Science (see General Education Requirements)	10
Social studies electives	4
Physical education	1
U.S. history or U.S. government	3
Teaching Field I	32
Teaching Field II	24
Electives needed to total 120 semester hours	

Subject Fields of Specialization**ART**

Field II: Art 1000; 2050 or 3080; 1110 or 1400; 2250 or 2700 or 3340; 2440 or 2410; 3410; 3601 or 4650; elective. Total, 24 sem. hrs.

BIOLOGICAL SCIENCES

Field I: Life Science 1000, 3010; Botany 1010, 1022; 2290 or 2300; Botany 3361 or Zoology 3200; Zoology 1010; 2100 or 3300; 3700; elective in botany or zoology or life science. Total, 32 sem. hrs.

Field II: Life Science 1000; Botany 1010, 1022; Zoology 1010; 3300 or 3700; electives in botany or zoology or life science. Must include a minimum of 8 semester hours in botany and 8 semester hours in zoology. Total, 24 sem. hrs.

ENGLISH

Field I: English 1001, 1002; 2701 or 2702; 2901, 3001; Library Science 3320; one of English 2601, 2801, 2802, 2805, 2806; Speech-Communication 1310; Electives in English, upper division recommended. Total, 32 sem. hrs.

Field II: English 1001, 1002; 2701 or 2702; 3001; Library Science 3320; one of English 2801, 2802, 2805, 2806; Speech-Communication 1310; elective in English, upper division recommended. Total, 24 sem. hrs.

FOREIGN LANGUAGES

Fields are available in French, German, Latin, Russian, and Spanish. A student with high school foreign language should consult Section X, under Foreign Languages, to determine upper course placement when continuing a language studied in high school. For a student initiating a given language at the college level the following courses must be included in the fields.

Field I: 1101, 1102, 2201, 2202, 3400, electives in that language. Total, 34 sem. hrs.

Field II: 1101, 1102, 2201, 2202, 3400, electives in that language. Total, 25 sem. hrs.

GEOGRAPHY

Field II: Geography 1500, 3020; 3510 or 4510; 3600 or 3870; 4530 or 4580; geography electives. Total, 24 sem. hrs.

HISTORY

Field II: History 1510, 1520, 2010, 2020; 2 or 3 semester hours in U.S. history; 2 or 3

semester hours in world or European history; electives in history, upper division recommended. Total, 24 sem. hrs.

HOME ECONOMICS

Field II: Home Economics 1120, 1150, 2244, 2800, 2850, 3236, 3300; elective in home economics. Total, 24 sem. hrs.

INDUSTRIAL ARTS

Field II: Industrial Arts 1013, 1063, 1113, 1163, 1213, 1293, 3400; elective in industrial arts, upper division recommended. Total, 24 sem. hrs.

LIBRARY SCIENCE

Field II: Library Science 3200; 3300 or 3320; 4490, 4750, 4760, 4770; Instructional Media 4870, 4880. Total, 24 sem. hrs.

MATHEMATICS

Field I: Mathematics 1250, 2220; 1320 or (1310 and 1340); 2310 or 2320; 2351, 2352, 3271; electives in mathematics numbered 2000 or higher except 2110, 2120, 2320, 2340, upper division recommended. Total, 32 sem. hrs.

Field II: Mathematics 1250, 2220; 1320 or (1310 and 1340); 2351, 3271; electives in mathematics numbered 2000 or higher except 2110, 2120, 2340, upper division recommended. Total, 24 sem. hrs.

PHYSICAL EDUCATION FOR MEN — JUNIOR HIGH SCHOOL

Field II: Physical Education 1530, 2000, 2440, 3400, 4320; electives from: PE service courses (maximum 3 sem. hrs.), 1520, 2450, 3130, 4750, 3 sem. professional courses. Total, 24 sem. hrs.

PHYSICAL EDUCATION FOR WOMEN — JUNIOR HIGH SCHOOL

Field II: Physical Education 1680, 1690, 2220, 2370, 2380, 2410, 2440, 3401, 4320; electives in physical education. Total, 24 sem. hrs.

PHYSICAL SCIENCE

Field I: Chemistry 1300 or 1310; 1315; either (Chemistry 1410 and 1415) or (Chemistry 1510 and 1515); either (Physics 1150 and 1160) or (Physics 1350 and 1360); 16 semester hours of electives with at least 3 semester hours in each field of chemistry, geology-earth science, physics. Total, 32 sem. hrs.

Field II: Chemistry 1300 or 1310; 1315; either (Chemistry 1410 and 1415) or (Chemistry 1510 and 1515); Physical Science 1000 or Chemistry 2340; three semester hours physics elective; either (Physics 1150 and 1160) or (Physics 1350 and 1360); elective from chemistry, geology-earth science, or physics. Total, 24 sem. hrs.

SOCIAL STUDIES

Field I: History 1510, 1520, 2010, 2020; two or three semester hours in U.S. history; two or three semester hours in world or European history (upper division recommended); eight semester hours in geography or political science; three semester hours in anthropology or sociology; three semester hours in economics. Total, 32 sem. hrs.

Field II: History 1510, 1520, 2010, 2020; two or three semester hours in U.S. history; two or three semester hours world or European history (upper division recommended); six semester hours from one of the following: economics, geography, or political science. Total, 24 sem. hrs.

SPECIAL EDUCATION — EMH

(To be taken only with a Field I in: Biological Sciences, English, Mathematics, Physical Science, or Social Studies.) (Must have a minimum of five semester hours of student teaching in EMH.)

Field II: Elementary Education 3270, 3280 (substitute 3280 for 4280); Special Education 2500, 3300; 3400 or 4960; Psychology 3600 or Educational Psychology 4990; Speech Pathology and Audiology 4800; electives from: Special Education 3350, 4660, 4870, 4880, 4980, 4990, Psychology 3550. Total, 24 sem. hrs.

SPECIAL EDUCATION — LEARNING DISABILITIES

(To be taken only with a Field I in: Biological Sciences, English, Mathematics, Physical Science, or Social Studies.) Must have a minimum of five semester hours of student teaching in L.D.)

Field II: Elementary Education 3270, 3280 (substitute 3280 for 4280); Special Education 2500, 3350, 4980, 4990; Psychology 3550; Speech Pathology and Audiology 4800; elective from: Special Education 3300, 3400, 4660, 4880, 4960, Educational Psychology 4990. Total, 24 sem. hrs.

SPEECH-COMMUNICATION

Field II: Speech-Communication 1310, 2300, 2320; Theatre Arts 1133; one of the following: Speech-Communication 2520, 2540, 3520, 3540; one of the following: Speech-Communication 3170, 3200, 3230; one of the following: Theatre Arts 2257, 3431, 3445; three semester hours from Speech-Communication, Speech Pathology and Audiology, Theatre Arts, and/or Journalism. Total, 24 sem. hrs.

LIBRARY SCIENCE

Minor: (for teacher certification)

Library Science 3200; 3300 or 3320; 4490, 4750, 4760, 4770 18 sem. hrs.

MANAGEMENT (B.S. BUS.)

Major:

Accountancy 2010, 2020	8 sem. hrs.
Management 2300, 3010, 3450, 3460, 3700, 3810, 3830, 4360	24
Management either (3800, 3820, 4340, 4350) OR (3470, 4370, 4380, 4450)	12
Marketing 3470	3
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3

Total 70 sem. hrs.
(Major GPA based on (a) all business courses taken and (b) the courses constituting the specific major.)

MARKETING (B.S. BUS.)**Major:**

Accountancy 2010, 2020	8 sem. hrs.
Management 2300, 3010, 3460, 3700, 3810, 4360	18
Marketing 3470, 3480, 3490, 3500, 3720, 4860, 4870	21
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3

Total 70 sem. hrs.
(Major GPA based on (a) all business courses taken and (b) the courses constituting the specific major.)

MATHEMATICS (B.A.)**Major:**

Mathematics 2310, 2351, 2352, 2353, 3531, 3532	22 sem. hrs.
Electives chosen from any mathematics course numbered 2550 or above including at least two of the following sequences: 3501-3502, 3701-3702, 4861-4862	18

Total 40 sem. hrs.
(Major GPA based on mathematics courses only.)

MATHEMATICS (B.A. FOR TEACHER CERTIFICATION)**Major:** (Standard High School Certificate)

Mathematics 2310, 2351, 2352, 2353, 2550, 3271, 3272, 3400, 3531, 3701, 3702	36 sem. hrs.
Electives chosen from any mathematics course numbered 3501 or above**	3 or 8

Total 39 or 44 sem. hrs.

**Eight semester hours required if no minor is chosen.

(Major GPA based on mathematics courses only.)

Minor: (for teacher certification)

Mathematics 2351, 2352, 2550, 3271, 3400, 3531, 3701	24 sem. hrs.
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MEDICAL TECHNOLOGY (B.S.)

This cooperative degree program, administered by the Pre-Medicine Studies Committee, leads to the Bachelor of Science degree. It is a four-year program including three years of college work followed by one year of work in an affiliated hospital. The degree requires 120 semester hours of credit including 90 semester hours at Eastern Illinois University (or a combination of transfer credits and credits earned at Eastern totaling 90 semester hours) and 30 semester hours accepted as transfer credit for successful completion of a one-year program in medical technology at an affiliated hospital.

All University Requirements:

English 1001, 1002	6 sem. hrs.
Health Education 1200	2
Speech Communication 1310	3
Humanities electives	10
Social Studies electives	10
Total	31 sem. hrs.

Special Requirements:

Mathematics elective	3 sem. hrs.
Life Science 1000	3
Zoology 1010, 2000, 3600	10
Botany 3250	3
Chemistry 1310 or 1300; 1315, 1410, 1415, 2340, 2430, 2435	16
Total	35 sem. hrs.

Electives 24 sem. hrs.

Professional training in an affiliated school of medical technology 30 sem. hrs.

Total 120 sem. hrs.

MUSIC EDUCATION (B.MUS. FOR TEACHER CERTIFICATION)**Major:** (Standard Special Certificate. The student chooses one of three options.)

Music 1103, 1541, 1542, 1543, 1544, 2541, 2543, 2560, 2580, 3571, 3572	20 sem. hrs.
Electives in MTH&L	8
Choose one of the following options	34-39
Total	62-67 sem. hrs.

1. Instrumental Option.

Music 1136 (or 1137 and 2136), 1301, 2360, 2440, 3360, 3400; 3547 or 4840, or 4850. Choose one of three principals listed below. (34-37 sem. hrs.)

- String, Wind, or Percussion Instrument Principal. Music 1302, 1303, 1304, 1305, 1306; two semesters of class piano or completion of 2204; 10 sem. hrs. in applied instrument; 6 sem. hrs. in instrument ensemble. Total, 23 sem. hrs.
- Keyboard Principal. Music 1302, 1303, 1304, 1305, 1306, 2205, 2206; 3221 or 4900; 10 sem. hrs. in applied keyboard; 4 sem. hrs. in instrumental ensemble. Total, 23-24 sem. hrs.
- Composition Principal. Four semesters of class piano or completion of Music 2204; three courses from 1302, 1303, 1304, 1305, 1306; 10 sem. hrs. of Music 0070; 4 sem. hrs. in instrumental ensemble. Total, 21 sem. hrs.

2. Vocal Option.

Music 2440, 2155, 3155; one course from 3547, 4750, 4840, 4850; 4 sem. hrs. in vocal emphasis. Choose one of three principals listed below. (36-37 sem. hrs.)

- Vocal Principal. Music 1301, 1302, 1305. Four semesters of class piano or completion of Music 2204. 2141, 2142, 3439, 3120 (taken twice); 10 sem. hrs. in applied voice. Total, 26 sem. hrs.
- Keyboard Principal. Music 1136 or 1137, 1301, 1302, 1305, 2136 (taken twice), 2205, 2206, 3439, 3221; 10 sem. hrs. in applied voice. Total, 25 sem. hrs.

- c. Composition Principal. Music 1136 or 1137. Four semester hours of Class Piano or completion of Music 2204; 2136 (taken twice); 2141, 2142, 3439; 10 sem. hrs. in Music 0070; two courses from 1301, 1302, 1303, 1304, 1305. Total, 25 sem. hrs.

3. General Music Option.

Music 2440, 3439, 3481; (2155 and 3155) or (2360 and 3360); 4 sem. hrs. in applied music; 2 sem. hrs. in keyboard; 2 sem. hrs. in ensemble. Humanities requirement: 6 sem. hrs. in English literature, 9 sem. hrs. in Art History/Appreciation, 6 sem. hrs. in Philosophy. Total, 39 sem. hrs.

(Major GPA based on music courses only.)

Minor: (for teacher certification)

Music 1103, 1541, 1542, 1543, 1544, 2440, 2541, 2543,
2580, 3572 16 sem. hrs.
Either Vocal Emphasis or Instrumental Emphasis 13

Vocal Emphasis:

Music 2155, 3155, 3439; 3 sem. hrs. in applied piano distributed over three semesters; 4 sem. hrs. in applied voice distributed over four semesters. Total, 13 sem. hrs. Participation for at least four semesters in a university choral organization is required.

Instrumental Emphasis:

Music 1302, 1303, 1305, 1306, 2360, 3360, 3400; 3 sem. hrs. in applied instrumental music distributed over three semesters. Total, 13 sem. hrs. Participation for at least four semesters in a university instrumental organization is required.

Total 29 sem. hrs.

MUSIC HISTORY-LITERATURE (B.MUS.)

Major:

Music 1203, 1204, 1541, 1542, 1543, 1544, 2203, 2204,
2541, 2543, 2560, 2580, 3547, 3571, 3572, 4872 30 sem. hrs.
Electives in MTH&L 18
Primary instrument or voice 16
Electives in music 2
Foreign language 8
Total 74 sem. hrs.

(Major GPA based on music courses only.)

MUSIC PERFORMANCE (B.MUS.)

Major:

Music 1103, 1541, 1542, 1543, 1544, 2541, 2543, 2560, 2580,
3571, 3572 20 sem. hrs.
Electives in MTH&L 10
Choose one of the following options 48-56
Total 78-86 sem. hrs.

1. String, Wind, or Percussion Instrument Option.

Two semesters of Class Piano or completion of Music 2204; Music 2360, 3360, 3547, 4872; one semester hour elective in music; six sem. hrs. in instrumental ensemble

including at least one sem. hr. of 0600 and four sem. hrs. of 0100, 0110, and 0120. 30 sem. hrs. in primary instrument. Total, 48 sem. hrs.

2. Keyboard Option.

Music 2205, 2206, 6 sem. hrs. in ensemble; including at least one sem. hr. each of 0600 and 3201 and four sem. hrs. of 0100, 0110, 0120, or 0300; choose either piano primary or organ primary. Total, 48 sem. hrs.

a. Piano Primary: Music 3221; 30 sem. hrs. in 0060; 7 sem. hrs. in music electives. Total, 40 sem. hrs.

b. Organ Primary: Music 4900; 30 sem. hrs. in 0061; 8 sem. hrs. in music electives. Total, 40 sem. hrs.

3. Vocal Option.

Four semesters of Class Piano or completion of Music 2204; Music 2141, 2142; 30 sem. hrs. in 0010; six sem. hrs. from 2155, 3120, 3155, 4770, 4780; six sem. hrs. in vocal ensemble, including at least one sem. hr. in 0600 and four sem. hrs. in 0300; one year of a foreign language.* Total, 56 sem. hrs.

(Major GPA based on music courses only.)

*This fulfills the humanities requirement.

MUSIC THEORY-COMPOSITION (B.MUS.)

Major:

Music 1203, 1204, 1541, 1542, 1543, 1544, 2203, 2204,
2541, 2543, 2560, 2580, 3547, 3571, 3572, 4541,
4542, 4872 34 sem. hrs.
Electives in MTH&L 10
Primary instrument or voice 10
Music 0070 and approved electives in music 18
Electives in ensemble 6
Total 78 sem. hrs.

(Major GPA based on music courses only.)

PHILOSOPHY (B.A.)

Major:

Philosophy 1800, 1830, 1900, 2850, 2860, 4480 18 sem. hrs.
Electives in philosophy approved by the department 18
Total 36 sem. hrs.

(Major GPA based on philosophy courses only.)

PHYSICAL EDUCATION, MEN (B.S.)

Major:

Physical Education service courses 5 sem. hrs.
P.E. 1500, 1530, 2000, 2440, 4320 15
Life Science 1000; Zoology 3000 6
One area of concentration 12
Total 38 sem. hrs.

Coaching concentration:

One or two of the following: PE 3470, 3480, 3490, 3500, 3550, 3580; and electives from: PE 3130, 3700, 4340, one service course, 4741, 4742, 4743, three sem. hrs. from PE professional courses. Total, 12.

Dance concentration:

PE 2220, 2230, 2240; and electives from: 3220, 3230, 3250, 3270, 3620, 3960, 4741, 4742, 4743, Th.Arts 2257. Total, 12.

General Physical Edu. concentration:

Electives from: PE 1520, 2450, 4310, 4750, one of (3470, 3480, 3490, 3500, 3550, 3580), one service course, 4741, 4742, 4743, three sem. hrs. from PE professional courses. Total, 12.

Athletic Training concentration:

PE 2450, 3130, 4340, 4770; and electives from: PE 3700, 3470, 3480, 3490, 3500, 3550, 3580, 4741, 4742, 4743. (Students interested in completing national certification in athletic training must complete an additional 20 sem. hrs. in related course work. See chairman of the physical education department.)

PHYSICAL EDUCATION, MEN (B.S. FOR TEACHER CERTIFICATION)**Major: (Standard High School Certificate)**

Physical Education service courses*	6 sem. hrs.
P.E. 1500, 1530, 2000, 2440, 3400, 4320	18
Life Science 1000; Zoology 3000	6
Area of Concentration	12
Total	42 sem. hrs.

Coaching Area:

One or two courses from: P.E. 3470, 3480, 3490, 3500, 3550, 3580. Electives from: P.E. 3130, 3700, 4340, one service course, 4741, 4742, 4743. 3 sem. hrs. of professional P.E. electives. Total, 12 sem. hrs.

Dance Area:

P.E. 2220, 2230, 2240. Electives from: P.E. 3200, 3220, 3230, 3250, 3270, 3620, 3960, 4741, 4742, 4743, Theatre Arts 2257. Total, 12 sem. hrs.

Secondary Teaching Area:

Electives from: P.E. 1520, 2450, 4310, 4750. May select one course from: P.E. 3470, 3480, 3490, 3500, 3550, 3580. May select one service course. May select 4741, 4742, 4743. 3 sem. hrs. of professional P.E. electives. Total, 12 sem. hrs.

Athletic Training Area:

P.E. 2450, 3130, 4340, 4770, Electives from: P.E. 3470, 3480, 3490, 3500, 3550, 3580, 3700, 4741, 4742, 4743. Total, 12 sem. hrs. (Students interested in completing national certification in athletic training must complete an additional 20 sem. hrs. in related course work. See Chairman of the P.E. Department.)

(Major GPA based on P.E. courses only.)

*Must include a swimming course, dance course, and a course in a contact sport.

PHYSICAL EDUCATION, MEN FOR ELEMENTARY (B.S. FOR TEACHER CERTIFICATION)

(Program under consideration by State Teacher Certification Board for approved program status. Until approved, certification must be obtained through evaluation process. Consult the chairman of the department.)

Major: (Standard Special Certificate)

Physical Education service courses*	6 sem. hrs.
P.E. 1500, 1530, 2000, 2440, 3400, 4320, 3620, 3630, 3640	27
Life Science 1000; Zoology 3000	6
Electives from: P.E. 1520, 2410, 2450, 3610, 4741, 4742, 4743, 4750, Elementary Edu. 2320, 3240, Health Edu. 1320 or 3000	11
Area of Concentration	12
Total	62 sem. hrs.

Areas of Concentration — See above under Physical Education, Men (Standard High School Certificate)

*Must include a swimming course, dance course, and a course in a contact sport.

Minor: (for teacher certification)**Teaching Option:**

Physical Education service courses*	4 sem. hrs.
P.E. 1530, 2000, 2440, 3400, 4320	17
Electives from: P.E. 1500, 1520, 2450	2
Electives from: P.E. 3470, 3480, 3490, 3500, 3550, 3580, 4310, 4750	3
Total	25 sem. hrs.

Coaching Option:

Physical Education service courses*	2 sem. hrs.
P.E. 2440, 3130, 3400, 3700, 4320, 4340	17
Two of the following: P.E. 3470, 3480, 3490, 3500, 3550, 3580	6
Total	25 sem. hrs.

*Must include a swimming course, dance course, and a course in a contact sport.

PHYSICAL EDUCATION, WOMEN (B.S. FOR TEACHER CERTIFICATION)**Major: (Standard Special Certificate)**

P.E. 1500, 1520, 1690, 2220, 2230, 2240, 2320, 2370, 2380, 2410, 2450, 3200, 3401, 4320, 4750	38 sem. hrs.
Life Science 1000; Zoology 3000	6
Three to five activity courses from: P.E. 1060, 1400, 1610, 1660, 1670, 1810, 1870, 1880	3-5
*Area of Emphasis	10-12
Total	59 sem. hrs.

Dance Area:

P.E. 3230; electives from: P.E. 3220, 3250, 3270, 3620, 3960, Theatre Arts 2257. Total, 10-12 sem. hrs.

Elementary Physical Education Area:

P.E. 3620, 3630, 3640; electives from: P.E. 3610, Special Education 2500 or Elementary Education 2320, Health Education 1320 or 3000 or P.E. 3130. Total, 10-12 sem. hrs.

Sports and Coaching Area:

P.E. 3390; electives from: P.E. 3320, 3330, 3340, 3350, 3370, 3380, 3700 or 4340, Health Education 1320 or 3000 or P.E. 3130. Total, 10-12 sem. hrs.

General Area:

Courses selected from health and physical education in all three areas (Dance, Elementary Physical Education, Sports & Coaching) of emphasis in any combination. Total, 10-12 sem. hrs.

*Area of Emphasis and one hour activity course must total 15 sem. hrs.

(Major GPA based on physical education courses only.)

Minor: (for Teacher Certification)

P.E. 1060, 1690, 2220, 2230, 2320, 2370, 2380 2410, 3200, 3401, 4320	24 sem. hrs.
Three of the following: P.E. 1610, 1670, 1810, 1870, 1880	3
Total	27 sem. hrs.

PHYSICS (B.S.)**Major:**

Chemistry 1310, 1315, 1510, 1515	8 sem. hrs.
Mathematics 2351, 2352, 2353, 3501, 3502	17
Physics (1350, 1360) or (1150, 1360) or (1150, 1160)	8
Physics 2370, 2390, 2400, 3410, 3420, 4000, 4010, 4840, 4850	25
Electives chosen from Physics 3150, 4470, 4750, 4800, 4860, 4870	6-8
Total	64-66 sem. hrs.

(Major GPA based on physics courses only.)

PHYSICS (B.S. FOR TEACHER CERTIFICATION)**Major: (Standard High School Certificate)**

*Chemistry 1310, 1315, 1510, 1515	8 sem. hrs.
Mathematics 2351, 2352, 2353, 3501, 3502	17
Physical Science 3400	3
Physics (1350, 1360) ** or (1150, 1360) or (1150, 1160)	8
Physics 2370, 2390, 2400, 3410; 3150 or 3420; 4000, 4010, 4830, 4850	25
Total	61 sem. hrs.

(Major GPA based on Physical Science 3400 and physics courses only.)

*Students who wish to teach chemistry should take a minimum of 10 sem. hrs. in order to meet certification requirements.

**or (1150, 1360) or (1150, 1160) with permission of the chairman of the department.

Minor: (for teacher certification)

Chemistry 1310, 1315, 1510, 1515	8 sem. hrs.
Mathematics 2351, 2352	6
Physical Science 3400*	3
Physics (1350, 1360) ** or (1150, 1360) or (1150, 1160)	8
Physics 2370, 4830	6
Electives chosen from Physics 2390, 2400, 3150, 3410, 3420, 4470, 4750, 4850	3-4
Total	34-35 sem. hrs.

*Physical Science 3400 may be omitted if the student has credit in Geography 3400 or Life Science 3400.

**or (1150, 1360) or (1150, 1160) with permission of the chairman of the department.

POLITICAL SCIENCE (B.A.)**Major:**

Political Science 1003, 1104, 2003, 2603, 4952	15 sem. hrs.
One of Political Science 2203, 3203, 3223, 4813	3
One of Political Science 3303, 3313, 3323, 3333, 3343, 3353, 3363, 4803	3
One of Political Science 3413, 3643, 3713, 3723, 3733, 3743, 3753, 4753, 4793, 4843	3
One of Political Science 3503, 3513, 4774	3-4
One of Political Science 4903, 4913, 4933	3
Electives in political science	9
Total	39-40 sem. hrs.

(Major GPA based on political science courses only.)

POLITICAL SCIENCE (B.A. FOR TEACHER CERTIFICATION)

(Program under consideration by State Teacher Certification Board for approved program status. Until approved, certification must be obtained through evaluation process. Consult the chairman of the department.)

Major: (Standard High School Certificate)

Political Science 1003, 1104, 2003, 2603, 4952	15 sem. hrs.
One of Political Science 2203, 3203, 3223, 4813	3
One of Political Science 3303, 3313, 3323, 3333, 3343, 3353, 3363, 4803	3
One of Political Science 3413, 3643, 3713, 3723, 3733, 3743, 3753, 4843, 4753, 4793	3
One of Political Science 3503, 3513, 4774	3-4
One of Political Science 4903, 4913, 4933	3
Electives in political science	9
Social Science 3400	3

Total 42-43 sem. hrs.
(Major GPA based on Social Science 3400 and political science courses only.)

PRE-MEDICINE INFORMATION

Since many medical schools admit few, if any, students without a bachelor's degree, most students desiring the M.D. degree complete a bachelor's degree before entering medical school. Programs leading to the B.A. or the B.S. degree with a variety of majors are suitable for such students. When registering, such students should indicate their choice of degree and major. Pre-medicine should not be listed as the student's major unless the student is of sophomore or higher class standing and has been admitted to the cooperative pre-medicine degree program described in the next section. All students interested in a career in medicine should consult with the Chairman, Pre-Medical Studies Committee, for information regarding medical school admission requirements. Regardless of the choice of major, the student who wants to enter medical school should complete the following minimum program in science.

Life Science 1000	3 sem. hrs.
Zoology 1010; 2100 or 2200	8
Chemistry, including 8 semester hours of organic chemistry	16
Physics 1150; 1160 or 1350; 1360	8
Chemistry 2340 is highly recommended	3

PRE-MEDICINE (B.S.)

A cooperative pre-medicine program leading to the B.S. degree, after one year in medical school, is available to a limited number of students with high scholastic achievement records. Students who complete a year of college work with superior grades and who are interested in reducing the period of pre-medical study by a year should consult with the Chairman, Pre-Medical Studies Committee, for the detailed requirements of this program.

PSYCHOLOGY (B.A.)**Major:**

Psychology 2310, 2340, 2610; 3810 or 3820	14 sem. hrs.
Electives in psychology	18

Total	32 sem. hrs.
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(Major GPA based on psychology courses only.)

PSYCHOLOGY (B.A. FOR TEACHER CERTIFICATION)**Major:** (Standard High School Certificate)

Psychology 2310, 2340, 2610; 3810 or 3820	14 sem. hrs.
Electives in psychology	18
Psychology 3400 or Social Science 3400	3

Total	35 sem. hrs.
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(Major GPA based on Social Science 3400 and psychology courses only.)

Minor: (for teacher certification)

Psychology 2310, 2340, 3400	9 sem. hrs.
Electives in psychology	14

Total	23 sem. hrs.
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RECREATION (B.S.)**Major:**

Art 1400 or 1650; 3340	6 sem. hrs.
Elementary Education 2320	3
Geography 3870	3
Geology 1400	4
Health Education 1320 or 3000	2-3
Industrial Arts 1293	3
Life Science 1000, 3010	6
Management 3450 or Economics 4859	3
Music 1421 or 2562	2
P.E. service courses, to include a minimum of one aquatic and one rhythmical activity	6
Political Science 2603	3
Psychology 2310, 4870	6
Recreation 1320, 1780, 2250, 2280, 3510, 3550, 3560, 4410, 4760, 4790, 4800, 4830, 4840	35
Sociology 2710; and one of the following: Sociology 3650, 3681, 3700, 3791, 3801, 3810	6
Theatre Arts 3431	3

Total	93-94 sem. hrs.
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(Major GPA based on recreation courses only.)

SAFETY AND DRIVER EDUCATION**Minor:** (for teacher certification; may be used only as a second minor.)

Health Education 3300, 3310, 3320, 3340, 4900	13 sem. hrs.
Choose from the following: Health Education 2270, 3000, 3200, 3350; P.E. 3130; Political Science 2603, 3643; Psychology 3550, 4870	7

Total	20 sem. hrs.
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SOCIAL SCIENCE (B.A. FOR TEACHER CERTIFICATION)**Major:** (Standard High School Certificate)

Economics 2801, 2802, elective in economics	9 sem. hrs.
History 2010, 2020, elective in U.S. history	9
History 1510, 1520; elective in European history	9
Political Science 1104, two elective courses in political science	9-10
Social Science 3400	3
Sociology 2710, two elective courses in sociology	9
Upper division courses from economics, political science, sociology-anthropology (may be in one, two, or three fields)	9

Total	57-58 sem. hrs.
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(Major GPA based on anthropology, economics, social science, political science, and sociology courses only.)

Minor: (for teacher certification)

Two of the following options	18-19 sem. hrs.
a. Economics 2801, 2802, plus an elective course in economics. Total sem. hrs.	9
b. Political Science 1104, plus two elective courses in political science. Total, sem. hrs.	9-10
c. Sociology 2710, plus two elective courses in sociology. Total, sem. hrs.	9
Electives from economics, geography, history, political science, sociology-anthropology (may be in one or two fields)	6
Social Science 3400*	3
Total	27-28 sem. hrs.

*Social Science 3400 may be omitted if the student has credit in a methods course in one of the following: business education, English, foreign language, geography, life science, mathematics, physical science, psychology, or speech communication.

SOCIOLOGY (B.A.)**Major:**

Sociology 2710, 3650, 4520, 4611, 4622, 4900	18 sem. hrs.
Anthropology 2730	3
Choose one of the options listed below	18

Total 39 sem. hrs.

I – General Studies in Sociology: Eighteen semester hours electives in sociology.

II – Community Services: Sociology 2720, 3600, 3761, 4730, 4740, 4800. Total, 18 sem. hrs.

III – Community Analysis: Sociology 3622, 3791, 3801, 3810, 4721; Anthropology 4542. Total, 18 sem. hrs.

IV – Criminal Justice: Sociology 2720, 3700, 3761, 4750, 4770; Political Science 3503. Total, 18 sem. hrs.

V – Anthropology: Anthropology 2742, 3251, 3672; nine semester hours of electives in anthropology. Total, 18 sem. hrs.

(Major GPA based on sociology courses only.)

SOCIOLOGY (B.A. FOR TEACHER CERTIFICATION)**Major: (Standard High School Certificate)**

Sociology 2710, 3650, 4520, 4611, 4622, 4900	18 sem. hrs.
Social Science 3400	3
Electives in Sociology	18
Anthropology 2730	3
Choose one of the options listed below	16

Total 58 sem. hrs.

I – 8 semester hrs. in U.S. History and 8 semester hrs. in World History. Total, 16 sem. hrs.

II – 8 semester hrs. in U.S. History and 8 semester hrs. in any history specialization. Total, 16 sem. hrs.

III – 8 semester hrs. in each of two of the following: geography, political science, economics, anthropology. Total, 16 sem. hrs.

(Major GPA based on Social Science 3400 and sociology courses only.)

SPEECH-COMMUNICATION (B.A.)**Major:**

Courses chosen from the following: Speech-Communication 1400, 2300, 2320, 2340, 2520, 2540, 3170, 3200, 3230, 3300, 3520, 3530, 3540, 3620, 4000, 4470, 4750, 4760, 4800, 4830, 4860, Theatre Arts 1132, 1133, a maximum of four semester hours in a combination of Speech-Communication 1102 and 3020 42 sem. hrs.
(Major GPA based on Theatre Arts 1132, 1133, and speech-communication courses only.)

SPEECH-COMMUNICATION (B.A. FOR TEACHER CERTIFICATION)**Major: (Standard High School Certificate)**

Speech-Communication 2300, 2320, 2340, 2520, 3400, 4900	18 sem. hrs.
Electives in Speech-Communication other than 1310	9
Two of the following options	24
a. Four courses from: Speech Communication 2540, 3520, 3530, 3540, 4750	
b. Speech-Communication 3170, 3200, 3230, 4800	
c. Four courses from: Speech Communication 3300, 4470, 4760, 4830, 4860	
*d. Theatre Arts 1132, 1133, 2257, 3445	
Total	51 sem. hrs.

*Option "d" not available to Speech-Communication majors with Theatre Arts minor.

With the consent of the chairman of the department, Speech-Communication 4000 may be substituted for any of the above courses except 3400.
(Major GPA based on theatre arts and speech-communication courses only.)

Minor: (for teacher certification)

Speech-Communication 2300, 2320, 2340, 2520, 3400, 4900	18 sem. hrs.
Speech-Communication 4750 or 4800 or 4830	3
Total	21 sem. hrs.

SPEECH PATHOLOGY AND AUDIOLOGY (B.S.)**Major:**

Physics 1210	3 sem. hrs.
Psychology 2310, 3620, 4750, 4780	12
Speech Pathology and Audiology 1100, 2110, 2140, 2210, 2800, 2830, 3250, 3300, 3410, 3500, 3600	30
Speech Pathology and Audiology 4700	2
Life Science 1000 or a course in bio-chemistry	3
Zoology 3000	3

Total 53 sem. hrs.

(Major GPA based on Theatre Arts 1132 and speech pathology and audiology courses only.)

Undergraduate Recommended Electives:

Educational Psychology 4770, English 2901, 3901, 4902; Home Economics 2850; Psychology 3600, 4790; Speech-Communication 4830, 4860; Zoology 2000

Note: This program does not meet the requirements for American Speech and Hearing Association certification. To prepare for that certificate students must take this program with the M.S. in Speech Pathology and Audiology; see the Graduate Bulletin.

Major: (toward teacher certification)

Physics 1210	3 sem. hrs.
Psychology 2310, 3620, 4750, 4780	12
Speech Pathology and Audiology 1100, 2110, 2140, 2210, 2800, 2803, 3250, 3300, 3410, 3500, 3600	30
Speech Pathology and Audiology 4700	2
Life Science 1000 or a course in bio-chemistry	3
Zoology 3000	3
Total	53 sem. hrs.

(Major GPA based on Theatre Arts 1132 and speech pathology and audiology courses only.)

Note: This program does not meet the requirements for the Special Certificate — Speech and Language Clinician (for the Illinois schools) nor the American Speech and Hearing Association of Clinical Competence. To prepare for those certificates students must take this program plus the M.S. in Speech Pathology and Audiology; see the Graduate Bulletin.

THEATRE ARTS (B.A.)**Major:**

Theatre Arts 1101, 1102, 1132, 1133, 2240, 2244, 2257, 3333, 3357, 3358, 3445, 3751, 3752	35 sem. hrs.
Electives in Theatre Arts	6
Total	41 sem. hrs.

(Major GPA based on theatre arts courses only.)

THEATRE ARTS (B.A. FOR TEACHER CERTIFICATION)**Major: (Standard High School Certificate)**

Theatre Arts 1101, 1102, 1132, 1133, 2244, 2257, 3333, 3357, 3358, 3445	26 sem. hrs.
Speech-Communication 2320, 2340, 3400	9
One of the options listed below	15
Option 1:	
Theatre Arts 2240, 3751, 3752; electives in theatre arts. Total, 15 sem. hrs.	
Option 2:	
Theatre Arts 3751 or 3752; twelve semester hours in English and/or American literature. Total, 15 sem. hrs.	
Total	50 sem. hrs.

(Major GPA based on theatre arts and speech-communication courses only.)

Minor: (for teacher certification)

Theatre Arts 1132, 1133, 2244, 2257, 3445	15 sem. hrs.
Speech-Communication 3400 or English 3400	3
Total	18 sem. hrs.*

*For State Certification purposes this is a 27 semester hour minor including 9 semester hours of the 41 semester hours of required General Education.

ZOOLOGY (B.S.)**Major:**

Botany 1010	4 sem. hrs.
Chemistry 1310 or 1300, 1315, 1410, 1415	8
Life Science 1000, 3010	6
Zoology 1010, 2100 or 2000; 2200, 3100, 3200; 3700 or 3600 or 4760; 4540	24-26
Electives in mathematics and in the physical sciences	12
Electives in zoology	8-10

Total 64 sem. hrs.
(Major GPA based on Life Science 1000, 3010 and zoology courses only.)

ZOOLOGY (B.S. FOR TEACHER CERTIFICATION)**Major: (Standard High School Certificate)**

Botany 1010, 1022, 2290, 2300	12 sem. hrs.
Chemistry 1310 or 1300, 1315, 1410, 1415	8
Life Science 1000, 3010, 3400	9
Zoology 1010, 2100, 2200, 3100, 3200, 3300, 3700	26
Electives in the physical sciences	7
Electives in botany	3

Total 65 sem. hrs.
(Major GPA based on Life Science 1000, 3010, 3400, and zoology courses only.)



VIII. GRADUATE DEGREE PROGRAMS

GRADUATE STUDY

ADMISSION AND READMISSION

Admission, on a regular status or conditional status, to the graduate school for the purpose of obtaining a degree is granted upon evidence of a standard baccalaureate degree from an accredited college or university. To be admitted, the student must:

Regular Status

1. Take the Graduate Record Examination (GRE) or the Admission Test for Graduate Study in Business (ATGSB) or the Miller Analogies Test (MAT). Information concerning the specific tests will be sent with the application blank. Any of the examinations may be scheduled through the University Testing Service or the Graduate School;
2. have a minimum undergraduate cumulative GPA of 2.50 from the school conferring the bachelor's degree; or
3. lacking a minimum 2.50 GPA, demonstrated ability as evidenced by earning a minimum score on the GRE (1000) or the ATGSB (450) or the MAT (50).

Conditional Status

Any student who does not meet the above requirements for admission may:

1. be admitted *CONDITIONALLY* by the department in which he plans to do graduate work; and
2. upon departmental recommendation, based on satisfactory performance (earn 11 semester hours of graduate credit with at least a 3.25 GPA) be admitted to a degree program. The GRE or ATGSB or MAT must also be taken.

Non-Degree

A student holding a bachelor's degree may be admitted to take graduate courses on a non-degree status. However, should such a student — at a later date — apply for degree status, the same admission requirements, regular or conditional, as outlined above, must be met. Graduate work completed prior to admission to a degree program will be evaluated with no assurance that any credit earned will be applied toward the degree. Admission to take graduate courses is not to be interpreted as admission to the Graduate School.

An application, together with transcripts certifying the bachelor's degree and any subsequent work in other institutions, must be filed at least ten calendar days before

the first enrollment for graduate courses. Students who have attended Eastern Illinois University previously must file an application for readmission at least ten calendar days prior to the official enrollment date for the semester in which they wish to enroll. Application blanks may be secured from the Records Office.

A student who holds a baccalaureate degree is known as a graduate student only if he has applied for and has been accepted to take graduate courses.

Admission of Foreign Students

In addition to the regular application materials, overseas students are required to take the Test of English as a Foreign Language (TOEFL) Examination; the results of the examination must accompany the application blank.

GRADUATE STUDY IN THE SENIOR YEAR

During the final semester of residence in undergraduate work, or the penultimate semester of residence (if the final semester is to be spent in student teaching or internship), a senior may take graduate courses with credit which represents the difference between that required to complete the undergraduate degree and the maximum allowed a graduate student in that term. The proper application forms must be completed prior to enrolling in the graduate courses.

Military scholarships are valid for graduate study, and any unused portion of a Teacher Education Scholarship may be applied to graduate study.

GRADUATE ASSISTANTSHIPS

Graduate assistantships are available in departments and certain administrative offices. Appointments are for the academic year or summer session. To be eligible the applicant must have earned an overall 2.50 undergraduate grade point average and been admitted to take graduate courses.

The enrollment fee and out-of-state fees, if applicable, are waived for holders of assistantships.

Applications for the assistantships should be submitted by March 1 of the year of appointment. Further information may be obtained by writing to the Dean of the Graduate School or the major department.

GRADUATE DEGREES OFFERED

MASTER'S DEGREES

MASTER OF SCIENCE IN EDUCATION DEGREE

Aim. It is the purpose of this program to offer experiences designed to advance the professional and personal competence and scholarship of teachers and other educational workers in the public schools.

Fields.

Business Education
Educational Administration and Supervision
Elementary Education
Guidance and Counseling
Industrial Arts Education
Instructional Media
Physical Science

MASTER OF ARTS AND MASTER OF SCIENCE DEGREES

Aim. It is the purpose of these programs to provide intensive study designed to develop advanced scholarship in a particular discipline.

Fields. The following majors have been authorized for the Master of Arts and Master of Science Degrees:

Master of Arts

Art
Art Education
Economics
English
English Education
History
History Education
Mathematics
Mathematics Education
Music
Music Education
Political Science
Psychology
Sociology
Speech-Communication
Speech-Communication Education

Master of Science

Botany
Botany Education
Chemistry
Home Economics
Home Economics Education
Physical Education
P.E. Men, Education
P.E. Women, Education
Speech Pathology and Audiology
Zoology
Zoology Education

MASTER OF SCIENCE IN LIBRARY SCIENCE

MASTER OF BUSINESS ADMINISTRATION

Aim. The purpose of this program is to develop professional managers and executives to serve the needs of business and government, to prepare graduates for teaching in junior colleges, and to furnish basic graduate training for those desirous of continuing their graduate work.

SPECIALIST DEGREES*

SPECIALIST IN EDUCATION DEGREE

Aim. It is the purpose of this program to provide more advanced and intensive graduate study for public school personnel.

Fields. The Specialist in Education degree is offered in the fields of educational administration, guidance and counseling, and instructional media.

GRADUATE DEGREE PROGRAM REQUIREMENTS

For detailed descriptions of the various graduate programs offered at Eastern Illinois University, see the *Graduate Bulletin*. Catalogs, application blanks, and other materials may be obtained from the Dean of the Graduate School.

*Specialist degrees are often called "Sixth Year" degrees for they normally require a year's graduate work beyond the master's level.

IX. NON-DEGREE PROGRAMS

The curricula outlined in this section have been formulated as suggested programs which do not lead to graduation. Changes may be made by the student and his advisor without the formality of application for a waiver.

PRE-DENTISTRY

This program is administered by the Pre-Medical Studies Committee. The following minimum two-year program meets the course requirements for admission to most dental schools. All applicants for dental school are required to take a dental aptitude test given by the American Dental Association. Pre-dental students are urged to complete three years of college work before entering dental school. It is recommended that the minimum program be enriched with electives in history, economics, philosophy, sociology, and a modern language.

English 1001, 1002	6 sem. hrs.
Speech 1310	3
Chemistry 1310 or 1300; 1315, 1410, 1415, 2340, 2430, 2435, 2440	19
Physics (1150, 1160) OR (1350, 1360)	8
Mathematics elective	3
Life Science 1000	3
Zoology 1010, 2100	8
Electives	10
Total	60 sem. hrs.

PRE-ENGINEERING

This two-year program is administered by the Pre-Engineering Studies Committee. Students planning to enroll in pre-engineering are advised to include the following in their high school programs:

Mathematics—four or more units, including trigonometry

Science—three or more units, including chemistry and physics

Students with deficient high school background should expect their graduation with an engineering degree to be delayed.

There are two pre-engineering options, general (appropriate for all except chemical engineering) and chemical. Students interested in the chemical engineering option should consult with the chairman of the Chemistry Department. The minimum general pre-engineering requirements are as follows:

Chemistry 1310, 1315, 1510, 1515	8 sem. hrs.
English 1001, 1002	6
Industrial Arts 1043	3

*Mathematics 1340, 2351, 2352, 2353, 3501	17
Physics 1350, 1360, 2370, 2390, 2400	17
Humanities and Social Studies approved by advisor	12
Total	63 sem. hrs.

*Students who do not have the prerequisites for Mathematics 1340 must start with Mathematics 1320 or Mathematics 1300. See Section X.

PRE-HEALTH RELATED PROFESSIONS

This program is administered by the Pre-Medical Studies Committee. It is a flexible program designed for students who desire one or two years of college work to prepare for admission to professional schools of nursing, optometry, pharmacy, and physical therapy. Detailed information is available in the office of the Chairman, Pre-Medical Studies Committee.

PRE-LAW INFORMATION

There is no single undergraduate curriculum preferred in preparation for the study of law. Most law schools will consider superior students who have completed a baccalaureate degree with a good liberal arts background, regardless of major field. Emphasis should be placed on acquiring skills in clear expression and logical thought. Recommended undergraduate studies include English, economics, philosophy, history, political science, mathematics, and psychology. Some law schools require foreign language study as a prerequisite for entrance, and almost all law schools require an acceptable score on the Law School Admissions Test.

Students interested in preparing for legal studies should consult the Pre-Legal Advisor, Coleman Hall.

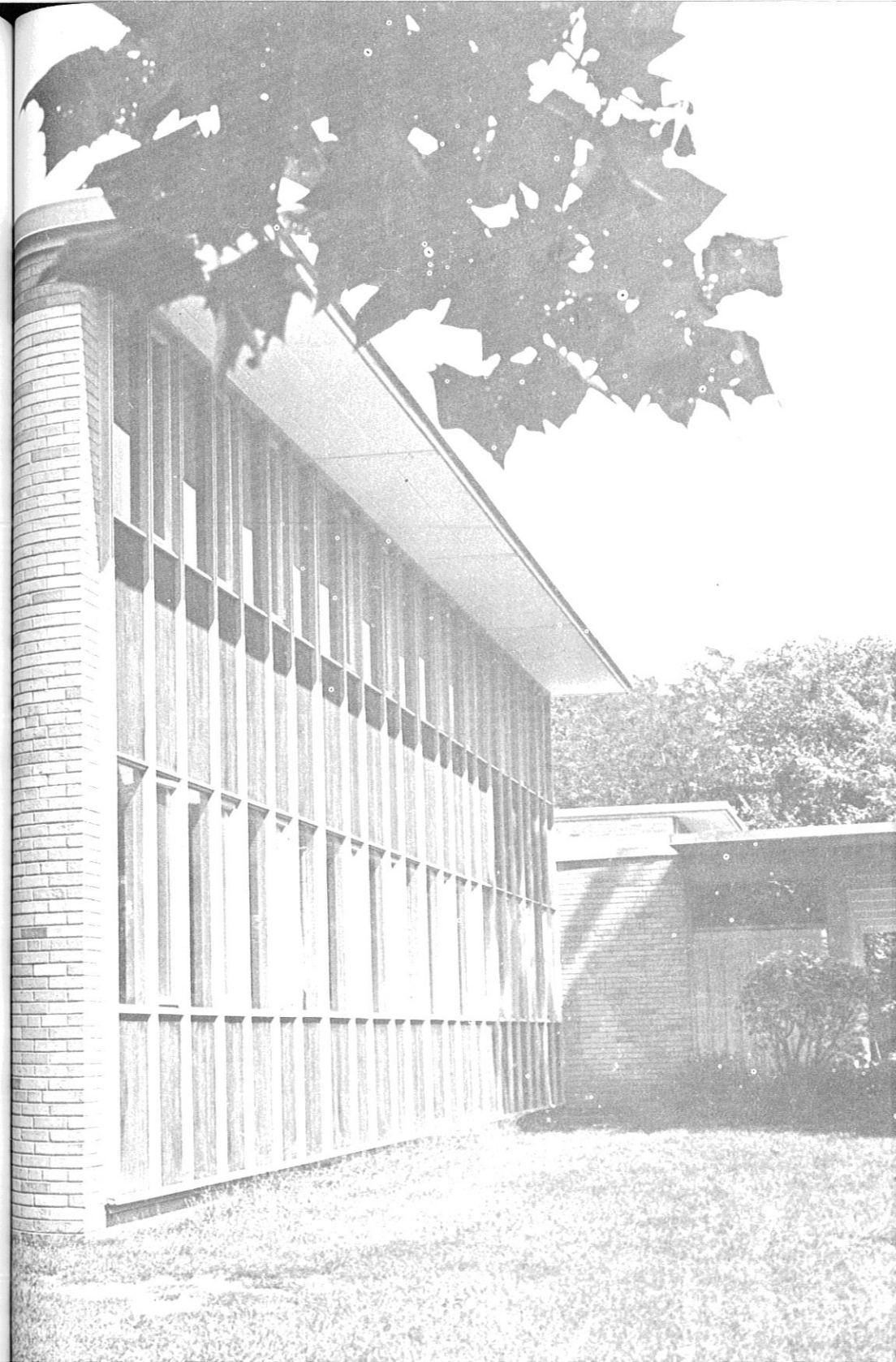
PRE-VETERINARY MEDICINE

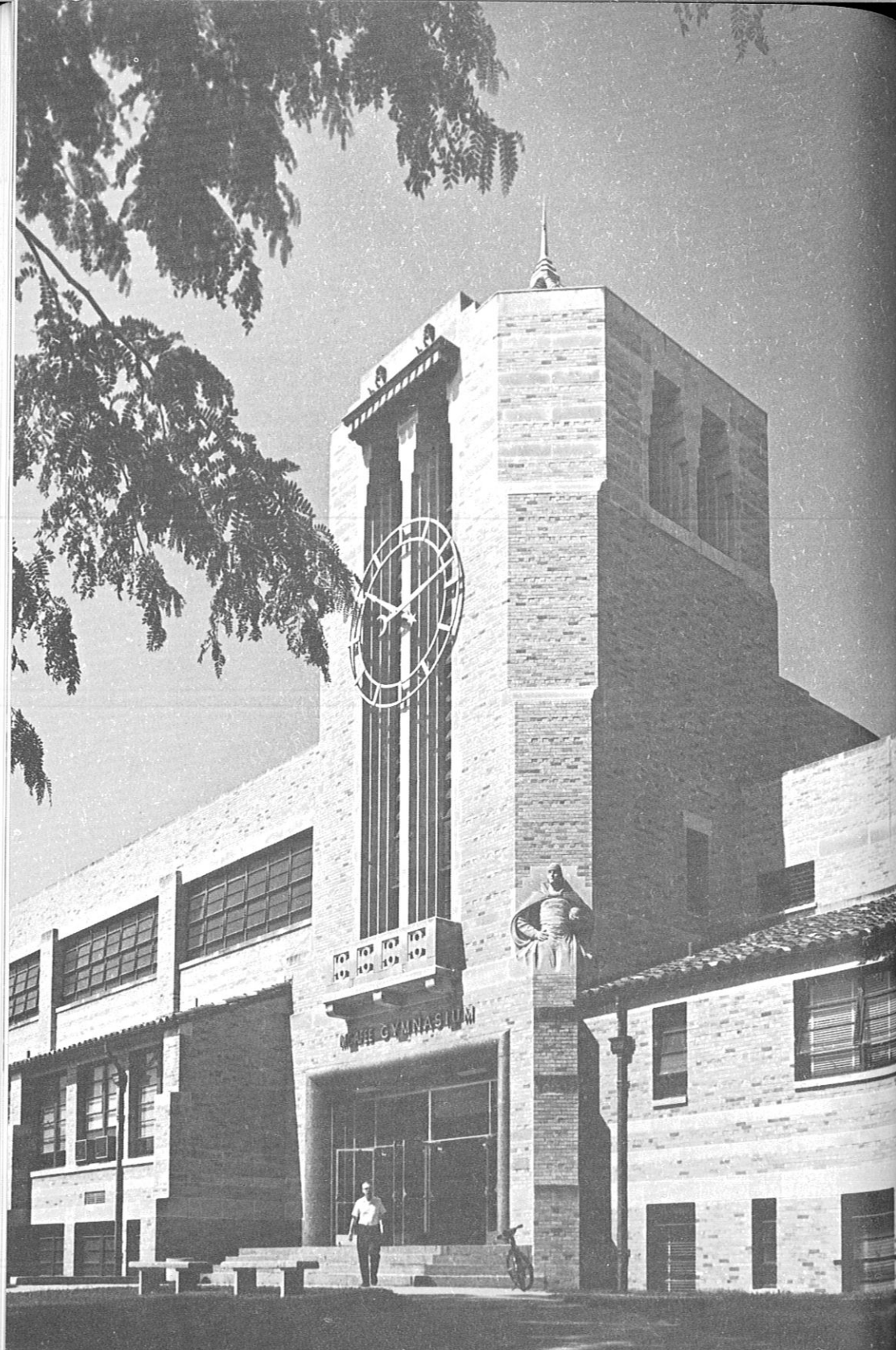
This two-year program, administered by the Pre-Medical Studies Committee, is designed to prepare students for admission to schools of veterinary medicine.

English 1001, 1002	6 sem. hrs.
Chemistry 1310 or 1300; 1315, 1410, 1415, 2340, 2430, 2435	16
Physics (1150, 1160) or (1350, 1360)	8
Life Science 1000	3
Botany 1010	4
Zoology 1010	4
Electives, approved by the advisor	19
Total	60 sem. hrs.

LATIN AMERICAN STUDIES

There is no formal curriculum for Latin American Studies. Students who seek knowledge of Latin American affairs, culture, and language are invited to consult with the Latin American Studies advisor for assistance in selecting courses suited to their individual needs. For further information inquire in the College of Arts and Sciences.





X. ACADEMIC ORGANIZATION AND COURSE DESCRIPTIONS

Instruction at Eastern Illinois University is administered by the following organizations:

COLLEGE OF ARTS AND SCIENCES

L. A. Ringenberg, Dean

Department of Botany
 Department of Chemistry
 Department of Economics
 Department of English
 Department of Foreign Languages
 Department of Geography and Geology
 Department of History
 Department of Library Science
 Department of Mathematics
 Department of Philosophy
 Department of Physics
 Department of Political Science
 Department of Psychology
 Department of Sociology and Anthropology
 Department of Speech-Communication
 Department of Speech Pathology and Audiology
 Department of Zoology
 Division of Life Sciences
 Division of Social Sciences

W. W. Scott
 S. R. Steele
 E. M. Corley
 J. R. Quivey
 M. M. Miess
 Walter N. Duffett
 W. Schlauch
 Frances Pollard
 A. J. DiPietro
 Ha Poong Kim
 W. A. Butler
 J. T. Connelly
 H. G. Coe
 V. Stoltzfus
 D. B. Morlan
 W. L. Thurman

G. T. Riegel
 L. Durham, Director
 R. A. Plath, Director

SCHOOL OF EDUCATION

H. J. Merigis, Dean

Department of Educational Administration and Supervision
 Department of Educational Psychology and Guidance
 Department of Elementary and Junior High School Education
 Department of Instructional Media
 Department of Secondary Education and Foundations

R. V. Shuff
 D. L. Moler
 L. M. Grado
 G. W. Scholes
 H. R. Larson

SCHOOL OF BUSINESS

Dean

Department of Accountancy

W. E. Ballsrud

Department of Business Education and
Administrative Office Management
Department of Management
Department of Marketing

T. L. Elliott

W. E. Green

C. L. Fagan

SCHOOL OF FINE ARTS

Dean

Department of Art
Department of Music
Department of Theatre Arts

Walter Sorge, Chairman
Rhoderick Key, Chairman
E. G. Gabbard, Chairman

SCHOOL OF HEALTH, PHYSICAL EDUCATION AND RECREATION

W. S. Lowell, Dean

Department of Health Education
Department of Physical Education
Department of Recreation

J. J. Richardson
W. F. Buckellew
E. L. Bryden

SCHOOL OF HOME ECONOMICS

M. R. Swope, Dean

Department of Home Economics
Education

J. S. Crouse

SCHOOL OF INDUSTRIAL ARTS AND TECHNOLOGY

W. D. Coleman, Dean

Industrial Arts Education
Industrial Technology

R. B. Sonderman
W. D. Coleman

COURSE DESCRIPTIONS

In the course description section which follows, courses are shown under the departments which teach them, with the departments listed in alphabetical order.

Generally, courses numbered 1000-1999 are freshman courses; 2000-2999, sophomore courses; 3000-3999, junior courses; 4000-4999, senior courses; and 5000-6999, graduate courses. However, if prerequisites are met students may enroll according to the following schedule.

CLASS	COURSES NUMBERED				
Freshman	1000	2000	a	a	
Sophomore	1000	2000	3000	a	
Junior	1000	2000	3000	4000	
Senior	1000	2000	3000	4000	5000-5499b
Graduate			4750-4999	5000-6999	

a. Courses numbered 3000-4999 in foreign languages, and chemistry may be taken by underclassmen who have prerequisites and permission of the chairman of the department.

b. With 3.0 GPA and permission of instructor and Dean of Graduate School.

Numbers in parentheses following the course title indicate the number of class hours per week — laboratory or studio hours per week — credit hours. For example (3-0-3) indicates three hours of classroom work each week, no laboratory hours, and three semester hours credit.

Prerequisites for courses are printed immediately following the course description. A student may not enroll in a course which is prerequisite for a course for which he has credit nor may he enroll in a course which substantially duplicates, at a lower level, a course or courses

which he has already successfully completed. Should a student violate this prescription, he may not receive credit for the course toward graduation.

Unless indicated as below, courses are offered every term. Offering times indicated are:

F — Fall Semester

S — Spring Semester

Su — Summer Term

ACCOUNTANCY**UNDERGRADUATE COURSES**

- 2010. Financial Accounting. (4-0-4)** An introduction to the basic concepts of financial accounting. Not open to freshmen.
- 2020. Management Accounting. (4-0-4)** Uses of accounting data for managerial planning and control. Prerequisite: Accountancy 2010. No credit for graduation if student has credit for Accountancy 4610 or its equivalent. Not open for students enrolled in a curriculum requiring Accountancy 4610.
- 2200. Individual Income Tax. (2-0-2)** An introduction to the basic concepts and procedures of Federal and State Income Tax as they pertain to the individual taxpayer and the small business enterprise.
- 3000. Cost Accounting. (4-0-4).** The usefulness and limitations of cost accounting with emphasis upon cost control and cost analysis. Prerequisite: Accountancy 2020.
- 3040. Financial Accounting Theory I. (5-0-5).** The fundamental nature of accounting communication embraced by a study of accounting statements, their form of presentation, and accounting terminology. Prerequisite: Accountancy 2020.
- 3050. Financial Accounting Theory II. (5-0-5).** Financial accounting measurement including: the determination of periodic income, revenue recognition, cost allocation, flow of funds, inventory valuation, depreciation theory, liability recognition, and corporate equity measurement. Prerequisite: Accountancy 3040.
- 3700. Socio-economic Accounting. (2-0-2)** S. Special nature of accounting for social systems and special economic units. Budgets, fund accounting characteristics, cost accounting, and the structure of social income accounts. Prerequisites: Accountancy 2020 and Economics 2801.
- 3800. Introduction to Operations Research. (3-0-3)** Su, F. An introduction and survey of the quantitative approaches to managerial decision making under conditions of certainty, risk, uncertainty, and competition. Prerequisite: Mathematics 1290 or 1300. Offered in Accountancy, Management, and Marketing. A student may take the course for credit in only one of the departments.
- 4000. Development of Accounting Thought. (2-0-2)** F. An analysis of the techniques, origin, development, and adequacy of basic theoretical concepts underlying the practice of accounting. Prerequisite: Accountancy 3050 or permission of the instructor.
- 4610. Federal Income Tax. (4-0-4)** F, S. Tax accounting under the latest amendments to the Internal Revenue Code. Basic discussion of theory and concepts. Prerequisite: Accountancy 2020.
- 4670. C.P.A. Problems. (3-0-3)** Su, S. Accounting theory and practice on a professional level. Analysis and study of selected questions from C.P.A. examinations. Prerequisites: Accountancy 3000, 3050, and 4610.

4740. **Independent Study.** (Arr.-Arr.-1 to 4) Individual study programs. The student will be assigned material from literature in accounting in cooperation with the department chairman. A written formal report based upon these readings must be submitted. Prerequisites: Senior standing with strong scholarship as evidenced by cumulative grade point average and permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4760. **Accounting Systems.** (3-0-3) (Omitted 1974-75) An introduction to basic concepts and standards of accounting system design. Prerequisite: Accountancy 3000.
4800. **Budgeting.** (3-0-3) F. Fundamental concepts underlying a profit planning and control program and their relationship to the primary functions of management. Prerequisite: Accountancy 2020. Offered in Accountancy and Management. A student may take the course for credit in only one of the departments.
4850. **Auditing.** (4-0-4) The examination and verification of financial statements for the purpose of establishing their reliability, including advanced techniques. Prerequisites: Accountancy 3000, 3050, and permission of the chairman of the department.
4900. **Advanced Federal Tax.** (3-0-3) S. Emphasis on partnership, corporation, fiduciary tax problems. Gift, estate, inheritance taxes. Corporate tax case research. Prerequisite: Accountancy 4610.
4950. **Internship in Accounting.** (Arr.-Arr.-8) Employment experience in public, industrial or governmental accounting in an approved firm. Prerequisite: Permission of the chairman of the department and acceptance of the student by a business firm.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5100. **Theoretical Issues in Accounting.** (3) Su. An analysis of accounting concepts, viewed in an ideal framework. For teachers of business subjects having a minimum of one year of accounting.
5300. **Quantitative Analysis.** (3) F. Designed to provide students with skills in quantitative techniques necessary for advanced work in functional areas of business administration.
5600. **Management Control.** (3) F. A case approach for analyzing management control problems. Prerequisite: Accountancy 2020.
5620. **Operations Research.** (3) S. Principles and methods of operations research: topics in linear programming; PERT, inventory models, queuing theory, simulation, and probability theory. Prerequisite: Accountancy 5300 or Mathematics 2110.
5800. **Seminar in Accounting Theory.** (3) S. An analysis of the techniques, origin, development, and adequacy of basic theoretical concepts underlying the practice of accounting. Prerequisite: Accountancy 2020.
5900. **Business Research Methods.** (2) F. Business research methodology including the meanings of research, its sequential development, types, and the steps of the scientific method applied to business. Practical and academic applications are explored. Offered in Accountancy, Management, and Marketing. A student may take the course for credit in only one of the departments.
5950. **Thesis.** (3 to 6) The development of the method of attack and the execution of a formal

research study in the area of accountancy. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. **Independent Study.** (1 to 6) The study of a problem within the area of accountancy in cooperation with the assigned instructor. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

ANTHROPOLOGY

UNDERGRADUATE COURSES

2730. **Introduction to Cultural Anthropology.** (3-0-3) A study of the cultures of the world, kinship systems, major institutions and social structure.
2742. **Introduction to Physical Anthropology and Archaeology.** (3-0-3) S. Investigation of man's place in nature; emphasis on principles of biological and cultural evolution as reflected by archaeological evidence.
3251. **Social Structure.** (3-0-3) F. A review of social systems, including kinship, political and economic systems in selected culture areas. Prerequisite: Anthropology 2730.
3602. **Peoples and Cultures of South America.** (3-0-3) S. The pre-Columbian background; culture and social organization of selected contemporary Latin American societies. Prerequisite: Anthropology 2730.
3611. **Peoples and Cultures of Africa.** (3-0-3) F. A study of the peoples and cultures of Africa, including a delineation of broad cultural areas. An in-depth description of selected societies and a cross-cultural comparison of certain institutions such as religions, political systems and family structures. Prerequisite: Anthropology 2730 or with consent of the instructor.
3672. **Introduction to Prehistoric Archaeology.** (3-0-3) S. Study of the history, method, theory and goals of archaeology; interpretation and analysis of prehistoric cultures. Prerequisite: Anthropology 2730, 2742.
3680. **Midwest Prehistory.** (3-0-3) F. A study of midwestern archaeology including both major cultures and regional variations. Their chronology and inter-relationships will be stressed. Prerequisite: Anthropology 2730, 2742.
3691. **North American Indians.** (3-0-3) F. A survey of the native population of North America, emphasizing the importance of cultural adaptation to environment. Prerequisite: Anthropology 2730.
4542. **Theories of Culture and Social Change.** (3-0-3) S. An investigation of anthropological theories and models which have contributed to an understanding of culture and social change. Prerequisite: Anthropology 2730.

ART

Note: Studio courses meet for double periods. Discussions and critiques may be incorporated into the studio hours.

The Department of Art reserves the right to retain for exhibition purposes any student work produced in art classes for a period of one academic year after the year in which the work was produced.

UNDERGRADUATE COURSES

1000. **Drawing I.** (0-8-4) Drawing in various media; studies from nature and the live model.

- Prerequisite: Major or minor in art, or Junior High School curriculum with Field II in art. Also Industrial Arts and Industrial Technology majors.
- 1110. Design. (0-8-4)** Development of concepts of two and three dimensional form creation through studio work. Credit is not given to students who have received credit for Art 1400. Prerequisite: Major or minor in art. For Industrial Arts and Industrial Technology majors, and Junior High School curricula with Field II in Art.
- 1400. Introduction to Art. (1-4-3)** Study of the fundamentals of art through studio problems in creative design. Prerequisite: Enrollment in elementary and junior high school education or special education or recreation. Credit is not given to those students who have credit for Art 1110 or 1650.
- 1650. Theory and Fundamentals of Art. (2-4-3)** Study of the basic aspects of the creation of form in the visual arts; studio experiences included. May be used as partial fulfillment of humanities requirement. Not open to students whose major or minor is in art or who have credit for Art 3601 or 1400.
- 2000. Drawing II. (0-6-3)** Varied approaches to drawing the human figure, anatomical study and analysis of muscular and skeletal systems of the human body at rest and in movement. Prerequisite: Art 1000.
- 2050. Painting I. (0-6-3)** Introduction to painting as a medium of expression; variety of approaches and media explored. Prerequisite: Art 1000 and 1110, or Art 1400 and Junior High School curriculum with Field II in art.
- 2100. Sculpture I. (0-6-3)** More specific work in three-dimensional organization of form; carving, constructing, assembling and welding are techniques to be explored. Prerequisite: Art 1110 or 3190.
- 2250. Ceramics I. (0-6-3)** Introduction to various hand building techniques, decorative methods, firing processes and use of the potter's wheel. Prerequisite: Art 1000 and 1110 for art majors and minors only; or Art 1400 for Junior High School curriculum with Field II in art.
- 2410. Art Education for Elementary Schools. (1-4-3)** The basic philosophy of art education for all ages. Study of developmental stages through grade six with appropriate exploratory studio creative projects. For art majors and minors only, or Junior High School curriculum with Field II in art. Not open to students who have credit in Art 2440.
- 2440. Art for Teachers in the Elementary Grades. (0-4-2)** A methods course in the philosophy of teaching art to children including the developmental stages of creative activity and appropriate media for each. Studio experiences. Prerequisites: Art 1400 and enrollment in elementary and junior high school education or special education. Not open to students who have credit in Art 2410.
- 2560. Printmaking I. (0-6-3)** Survey and exploration of four methods of printmaking. Prerequisite: Art 1000.
- 2601. History of Art I. (4-0-4)** F. Survey of the visual arts, prehistoric through the Gothic period. Prerequisite: For art majors and minors only.
- 2602. History of Art II. (4-0-4)** S. Survey of the visual arts, early Renaissance to the present. Prerequisite: Art 2601. Art majors and minors only.
- 2700. Introduction to Jewelry and Silversmithing. (0-6-3)** Fundamental techniques in the constructive and decorative processes of jewelry creation with various metals. Prerequisite: Art 1000 and 1110; or Art 1400 and Junior High School curriculum with Field II in art.
- 2800. Introduction to Weaving. (0-6-3)** Procedures involved in dressing the loom; development of various weaves using color, texture, materials. Prerequisite: Art 1110 or 1400.
- 2900. Lettering. (0-6-3)** F. Study of basic style letters with the development of skills in lettering with pen, pencil, brush techniques.

- 3000. Drawing III. (0-6-3)** Continuing study of drawing designed to develop individual sensitivity to graphic expression. Prerequisite: Art 2000.
- 3051. Painting II. (0-6-3)** Advancement of painting in progressive stages. Prerequisite: Art 2050.
- 3052. Painting III. (0-6-3)** Continuation of Art 3051. Prerequisite: Art 3051.
- 3080. Watercolor. (0-6-3)** S, Su. A painting course in transparent media. Prerequisite: Art 2050, or Junior High School curriculum with Field II in art.
- 3090. Survey of Two-Dimensional Art. (0-6-3)** S, Su. Studio experiences in drawing, painting, and printmaking. Prerequisites: Art 1400 or Art 1650. Not open to art majors and minors.
- 3111. Sculpture II. (0-6-3)** Advanced work in three-dimensional organization of form. Prerequisite: Art 2100.
- 3112. Sculpture III. (0-6-3)** Individual concentration toward more competent expression in three dimensions. Prerequisite: Art 3111.
- 3190. Survey of Three-Dimensional Art. (0-6-3)** F, Su. A study in three-dimensionality in art. Studio experiences include work in ceramics, sculpture, jewelry, or crafts. Credit is not given to students who have received credit for Art 1110. Prerequisite: Art 1400 or 1650. Not open to art majors and minors.
- 3251. Ceramics II. (0-6-3)** Projects in hand building or throwing; study of glaze materials and glaze calculation. Prerequisite: Art 2250.
- 3252. Ceramics III. (0-6-3)** Continuation of Art 3251. Prerequisite: Art 3251.
- 3300. Afro-American Art. (3-0-3)** Su, F. Contribution of the Negro people to the art of the western world.
- 3340. General Crafts. (0-6-3)** General course in crafts with emphasis on problems in varied media; mosaic, wood, glass, block printing, batik, macram. Prerequisite: Art 1110 or 1400 or 1650.
- 3410. Art Education for Secondary Schools. (1-4-3)** Philosophy and special problems related to teaching art in the junior and senior high school with appropriate studio experiences including Saturday art classes for children; preparation for student teaching. Required for and open only to art majors and minors in teacher training curriculum. Prerequisite: Art 2410; or 2440 and Junior High School curriculum with Field II in art.
- 3570. Printmaking II. (0-6-3)** Intensive exploration of methods of printmaking with emphasis on new approaches to personal expression. Prerequisite: Art 2560.
- 3601. Understanding Art. (3-0-3)** An introduction to the nature, creation, perception, understanding and evaluation of the visual arts. Not open to students whose major is in art. The course is recommended as partial fulfillment of the humanities requirement. Credit not given to students who have credit in Art 1650.
- 3602. Art in Past Cultures. (3-0-3)** Comparative study of subject, form and content in art of past cultures as it relates to purpose and style. Prerequisite: Art 3601. Not open to students whose major is in art. This course is recommended as partial fulfillment of the humanities requirement.
- 3603. Twentieth Century Art Forms. (3-0-3)** Origins and developments in Twentieth Century art. Prerequisite: Art 3601. Not open to students whose major is in art. This course is recommended as partial fulfillment of the humanities requirement.
- 3630. Classical Art. (3-0-3)** F. Study of dominant stylistic tendencies and major figures in Greek, Hellenistic and Roman art. Prerequisite: Art majors, Art 2602 or Art 3601.
- 3640. Medieval Art. (3-0-3)** F. Arts of the Early Christian, Byzantine, Early Medieval, Romanesque and Gothic periods. Prerequisites: Art majors, Art 2602 or Art 3601.

3650. **Art of the Italian Renaissance. (3-0-3)** S. Evolution and development of art forms in Italy during the Fifteenth and Sixteenth Centuries. Prerequisites: Art majors, Art 2602 or Art 3601.
3660. **European Art of the Seventeenth and Eighteenth Centuries. (3-0-3)** S. Study of the Baroque style in Italy and Northern Europe, including Rococo manifestations and relationship with the Baroque movement. Prerequisites: Art majors, Art 2602 or Art 3601.
3670. **Nineteenth Century European Painting. (3-0-3)** F. Leading artists, movements, and trends found in the painting and culture of Western Europe during the Nineteenth Century. Prerequisites: Art majors, Art 2602 or Art 3601.
3680. **Twentieth Century Painting and Sculpture. (3-0-3)** F, S. Major artists, developments, and significant achievements in painting and sculpture of the Twentieth Century. Prerequisites: Art majors, Art 2602 or Art 3601.
3690. **Twentieth Century Architecture. (3-0-3)** S. Architecture of the Twentieth Century; its roots in the past, its forms, its materials, its masters and its social impact. Prerequisites: Art majors, Art 2602 or Art 3601.
3701. **Jewelry and Silversmithing II. (0-6-3)** Advanced problems in jewelry construction developing the previously learned fundamentals in metal construction and introducing basic silversmithing processes. Prerequisite: Art 2700.
3702. **Jewelry and Silversmithing III. (0-6-3)** A continuation of Art 3701. Prerequisite: Art 3701.
3801. **Weaving II. (0-6-3)** Study of the theory of weaving. Experimentation and practice in design characteristics of weaves and materials. Prerequisite: Art 2800.
3802. **Weaving III. (0-6-3)** Advanced study of theory of weaving with individual concentration in designing on the loom. Further mastery of the media is stressed. Prerequisite: Art 3801.
3820. **Weaving and Textile Design. (0-6-3)** Pattern design principles as they apply to historical and contemporary textiles. Studio experiences may include work in weaving, silk screen, block printing, batik and stitchery. Prerequisite: Art 1110 or 1400.
3901. **Visual Communication I. (0-6-3)** Introduction to advertising layout; survey from business viewpoint and consumer market with study of typography, lettering and processes of reproduction.
3902. **Visual Communication II. (0-6-3)** Continuation of Art 3901 with more depth of experiences in problems involving air brush, silk screen mechanics, and other processes in reproduction. Prerequisite: Art 3901.
4000. **Drawing IV. (0-6-3)** Advanced drawing which is directed toward mastery of media and personal style. Prerequisite: Art 3000.
4051. **Painting IV. (0-6-3)** Attention centered on depth of expression through individual problems. Prerequisite: Art 3052.
4052. **Painting V. (0-6-3)** Continuation of Art 4051. Prerequisite: Art 4051.
4111. **Sculpture IV. (0-6-3)** Advanced study of sculpture directed toward mastery of form and materials and the development of a personal style. An individual plan of work must be presented upon registration for the course. Prerequisite: Art 3112 and permission of the instructor.
4112. **Sculpture V. (0-6-3)** Continuation of Art 4111 with an increasing depth of mastery expected. Prerequisite: Art 4111 and permission of the instructor.
4251. **Ceramics IV. (0-6-3)** Development of techniques and processes to a level of professional attainment; emphasis upon growth in area of student's interest. Prerequisite: Art 3252.

4252. **Ceramics V. (0-6-3)** Continuation of Art 4251 with increasing depth of mastery. Prerequisite: Art 4251.
4400. **Independent Study. (0-6-3)** Work in special problems selected to fulfill needs of the student. Prerequisites: Individual plan and permission of the instructor and chairman of the department, plus nine semester hours in the area of proposed study.
4580. **Printmaking III. (0-6-3)** Individual selection of printmaking processes and problems. Prerequisite: Art 3570.
4650. **The Visual Arts in the Elementary and Junior High School. (3-0-3)** S. Our cultural heritage in visual arts for teachers and approaches to fostering appreciation for this heritage. Prerequisite: Art 2440 or 2410. Not open to students whose major is in art.
4701. **Advanced Metalsmithing I. (0-6-3)** Problems in casting, chasing, repousse. Introduction to "Dutch, English, and non-resistant" raising; forming of seamed hollowware; hot forging. Prerequisite: Art 3702.
4702. **Advanced Metalsmithing II. (0-6-3)** Continuation of Art 4701 with further mastery of techniques. Prerequisite: Art 4701.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **Sources and Methods of Art History Seminar. (2-0-2)** S. Study of archaeological and documentary sources relative to the writing of art history; the systematic correlation of factual information. Prerequisite: Six semester hours of art history 3630 or above.
4760. **Art of the Ancient World. (3-0-3)** F. A study of the art of Mesopotamia, Egypt, and up to the Archaic period of Hellenistic cultures.
4790. **Problems in Art History and Criticism. (2-0-2)** Individual studies and directed research in selected areas of art history. Prerequisites: Art majors and minors only.
4800. **Advanced Weaving. (0-6-3)** Advanced problems in weaving with particular emphasis upon design using multi-harness looms and double weave techniques to perfect skills. Prerequisite: Art 3802.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5100. **Materials for Designing I. (2)** Experimentation with various materials, their limitations and possibilities. Problems vary to meet individual needs.
5200. **Painting Problems I. (3)** Emphasis is placed upon the construction and development of form in painting. Prerequisite: Three undergraduate courses in painting.
5400. **Problems in Art Education. (3)** Analysis of individual and typical problems of teaching art in the public school or junior college. Prerequisites: Art 3410 and one year of teaching experience in art.
5560. **Contemporary Printmaking. (3)** A study of styles and techniques of contemporary printmakers. Prerequisite: Two courses in undergraduate printmaking or permission of the instructor.
- 5571, 5572. **Advanced Ceramics. (3 each course)** Problem in ceramic design and construction with emphasis upon developing the individual's style and competence. Prerequisite: Nine semester hours undergraduate ceramics.

5600. **Materials for Designing II.** (2) Advanced study of problems of form. Prerequisite: A course plan arranged with the instructor and approved by the chairman of the department.
5610. **Advanced Drawing.** (3) Development of personal expression in drawing and marking systems. Prerequisite: Three courses in drawing or permission of the instructor.
5620. **Watercolor.** (3) Advanced study in various watercolor media. Prerequisite: Two courses in painting.
- 5671, 5672. **Advanced Sculpture.** (3 each course) Student to direct his study toward greater personal mastery of form, medium, and style. Prerequisite: Art 3112 or equivalent and permission of the instructor and the chairman of the department.
5701. **Painting Problems II.** (3) Independent study in painting directed toward greater personal expression. Prerequisite: Art 5200.
5702. **Painting Problems III.** (3) Continuation of Art 5701. Prerequisite: Art 5701.
5771. **Problems in Metalsmithing I.** (3) Advanced problems in metalsmithing with experimentation and development in a specific area. Historic and contemporary references will be included. Prerequisite: Eight semester hours equivalent to Art 2700 and 3701.
5772. **Problems in Metalsmithing II.** (3) Continuation of Art 5771. Prerequisite: Art 5771.
5800. **Research in Art Education.** (2) Familiarization with methods and structure of research in art education and the initiation of research projects to be carried out in the student's own classroom while teaching. Prerequisite: Graduate standing with a major in art.
5850. **Art Internship.** (3) Seminar discussion of various procedures in teaching college art courses and supervised intern teaching of prepared lessons within the department.
- 5871, 5872. **Problems in Nineteenth and Twentieth Century Art I and II.** (3 each course) Individual problems in the art expression of these two centuries. Seminar discussion and research papers relative to various stylistic developments.
5900. **Research in Art.** (2) Investigation into various procedures of research and their preparation in all art fields.
5950. **Thesis.** (3 to 6) Prerequisite: Art 5900. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study.** (1 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

BOTANY

UNDERGRADUATE COURSES

1010. **General Botany.** (1-6-4) An audio-tutorial laboratory approach to the study of plants with particular emphasis on their structure, function, and economic importance. Prerequisite: Life Science 1000.
1022. **Survey of Local Flora.** (1-2-2) S, Su. The recognition and identification of common local wild and cultivated seed plants. Prerequisite: Botany 1010.
2290. **Morphology of Lower Plants.** (1-4-3) The classification, structure, life-history, and importance of the algae and fungi. Prerequisite: Botany 1010.
2300. **Morphology of Higher Plants.** (1-4-3) The classification, structure, life-history, and importance of the bryophytes and vascular plants. Prerequisite: Botany 1010.

2320. **Economic Botany.** (2-0-2) The origin, development, diversity, and horticultural uses of cultivated plants. Prerequisite: Botany 1010.
2340. **Applied Microbiology.** (2-2-3) The structure, identification, and importance of microorganisms with particular emphasis on consumer microbiology. Not open to those with credit or registration in Botany 3250 or Botany 3350. Not to count toward a botany major; designed primarily for students in home economics, elementary and junior high school curricula.
2503. **Tropical Botany.** (3-10-(2-8) Su. (Two weeks on campus and six weeks in Mexico) The taxonomy and ecology of the plants of Mexico. Prerequisite: Botany 1010 or permission of the chairman of the department. Only three semester hours may count toward major and/or minor and/or distribution requirements. The maximum amount of credit which may be earned is eight semester hours.
3250. **Elementary Medical Microbiology.** (1-4-3) S. The basic principles and laboratory procedures of medical microbiology. Prerequisites: One year of biological science and one year of chemistry. Not open to those with credit or registration in Botany 3350. Designed primarily for students in the medical technology and other medically oriented curricula.
3350. **Bacteriology.** (1-4-3) The basic principles and laboratory procedures for the study of bacteria. Prerequisites: One year of biological science and one year of chemistry. Not open to those with credit or registration in Botany 3250. Designed primarily for students in the biological science curricula.
3361. **Genetics.** (1-4-3) Su, S. The principles of heredity and variations in plants. Prerequisite: One year of biological science. Not open to those with credit or registration in Zoology 3200.
3450. **Independent Study.** (Arr.-Arr.-1-3) The student must submit to the chairman of the department, prior to registration, an outline of his proposed study, and be assigned credit and an instructor under whom the research will be done. Upon completion of the study, a written report suitable for publication will be submitted to the chairman of the department for credit evaluation and an oral report presented before a departmental seminar. Prerequisite: Two years of biological sciences and permission of the chairman of the department. May be taken more than once up to a total of three semester hours.
3541. **Plant Physiology.** (2-4-4) The study of water relations, mineral nutrition, phytohormones, photosynthesis, respiration, physiological ecology, and the metabolic effects on plant growth and development. Prerequisites: Botany 1010 and one year of chemistry.
4362. **Mycology.** (1-4-3) S, Su. The structure, classification, life-history, and economic importance of the fungi. Prerequisite: Botany 2290.
4532. **Plant Microtechnique.** (1-4-3) Su, F. The basic principles and laboratory techniques for the preparation of plant material for microscopic study. Prerequisite: Botany 1010.
4611. **Plant Ecology.** (1-4-3) F, Su. The study of the structure, successional patterns, and investigative techniques of plant communities. Prerequisite: Two years of biological sciences.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4751. **Lichens.** (0-4-2) F, Su. The structure, identification, and importance of lichens. Prerequisite: Botany 2290.
4801. **Systematic Botany.** (1-4-3) F, Su. The classification and characteristics of the common families of flowering plants. Prerequisites: Botany 1010 and Botany 1022.
4851. **Plant Anatomy.** (1-4-3) Su, S. The study of the tissues and cellular elements which comprise the vegetative plant body of seed plants. Prerequisite: Botany 2300.
4882. **Phycology.** (1-4-3) S, Su. The structure, classification, life-history, and economic importance of the algae. Prerequisite: Botany 2290.

4901. **Plant Pathology.** (1-4-3) F, Su. The basic principles of plant disease with emphasis on symptoms, causal agents, and control. Prerequisite: Botany 2290.
4990. **Seminar.** (0-2-1) F, S. Reports and discussions of selected topics in botany. Prerequisites: Two years of biological sciences and permission of the chairman of the department. May be taken more than once but for no more than four semester hours.

GRADUATE COURSES (ON DEMAND)

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students).

5202. **Plant Geography.** (3) The study of factors influencing the distribution of North American plants. Prerequisite: Botany 4611.
5321. **Bryology.** (4) The structure, identification, life-history, and importance of the mosses and liverworts. Prerequisite: Botany 2300.
5351. **Advanced Bacteriology.** (5) The principles of bacterial cytology and physiology. Prerequisites: Botany 3350 and Chemistry 2430; bio-chemistry recommended.
5362. **Fungi I, Phycomycetes.** (4) The structure, identification, and importance of the lower fungi. Prerequisite: Botany 2290; Botany 3350 recommended.
5371. **Fungi II, Ascomycetes and Basidiomycetes.** (4) The structure, identification, and importance of the higher fungi. Prerequisite: Botany 2290.
5452. **Ethnobotany.** (3) The basic principles of the relationships of plants and man. Prerequisites: Botany 1010 and 2320.
5472. **Advanced Plant Physiology I, Inorganic Nutrition.** (4) The principles of water relations in plants with emphasis on absorption, translocation, and the function of inorganic mineral elements. Prerequisites: Botany 3541 and Chemistry 2430; biochemistry recommended.
5482. **Advanced Plant Physiology II, Metabolism.** (4) The principles of photosynthesis, respiration, and organic translocation. Prerequisites: Botany 3541 and Chemistry 2430; biochemistry recommended.
5602. **Cytotaxonomy.** (5) The structure and function of chromosomes and their relationship to the evolution and taxonomy of seed plants. Prerequisites: Botany 3361 or Zoology 3200; and Botany 4801.
5611. **Advanced Plant Ecology.** (5) The laboratory analysis of soils and vegetation; microenvironmental measurements and physiological procedures used in ecological studies. Prerequisite: Botany 4611.
5950. **Thesis.** (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study.** (1 to 6) Advanced studies in a selected field of Botany other than the thesis. Prerequisite: Permission of the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

BUSINESS EDUCATION AND ADMINISTRATIVE OFFICE MANAGEMENT

UNDERGRADUATE COURSES

1110. **Basic Typewritten Communication.** (3-1-3) F, S. Kinesthetic typewriting techniques with emphasis on typewriting as a communication tool. No credit for students having had equivalent of one semester of typewriting instruction.

1120. **Intermediate Typewritten Communication.** (3-1-3) F, S. Business and personal applications of typewriting for communications and reports. No credit for students having had equivalent of one year of typewriting instruction.
1240. **Shorthand Theory.** (3-1-3) F, S. Introduction to Gregg Shorthand. No credit for students having had equivalent of one semester of shorthand instruction.
1250. **Intermediate Shorthand.** (3-1-3) F, S. Speed building and transcription. No credit for students having had equivalent of one year of shorthand instruction.
2110. **Office Production Practicum.** (3-1-3) F, S. Office production typewriting to meet business standards. Prerequisite: Business Education 1120 or equivalent.
2240. **Advanced Shorthand/Transcription.** (3-1-3) F, S. Dictation and transcription for executive secretarial responsibility. Prerequisites: Business Education 1250 or equivalent and 2110 (may be taken concurrently).
2250. **Executive Secretarial Procedures.** (3-0-3) F, S. Simulated office activities with emphasis on preparation for executive secretarial responsibilities. Prerequisite: Business Education 2240 or equivalent.
3000. **Consumer Education.** (3-0-3) F, S. Factors affecting family financial management, including investments and savings, use of credit, insurance and taxes. Team taught with Home Economics 3300.
3220. **Office Machine Computation.** (3-1-3) F, S. Application of adding and calculating machine processes to business and statistical computation.
3230. **Administrative Office Services.** (3-0-3) F, S. Application of office skills to systems and procedures of administrative functions utilizing simulation. Prerequisites: Business Education 1120 or equivalent and junior standing.
3400. **Methods of Teaching Business.** (2-0-2) F, S. Foundations of business education, curriculum sources of assistance for the classroom teacher, and techniques of planning and evaluation for the business curriculums.
3410. **Basic Business and Consumer Education Methods.** (2-0-2) F, S. Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in the basic business subjects. Prerequisite: Business Education 3400.
3420. **Shorthand Methods.** (2-0-2) F, S. Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in the secretarial business subjects. Prerequisites: Business Education 1250 or equivalent and 3400.
3430. **Accounting Methods.** (2-0-2) F, S. Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in accounting courses. Prerequisite: One year of collegiate accounting and Business Education 3400.
3440. **Typewriting and Office Procedures Methods.** (2-0-2) S. Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in the clerical business subjects. Prerequisites: Business Education 1120 or equivalent and 3400.
4000. **School Business Management Internship.** (Arr.-Arr.-3) F, S. School business practices are studied under the direction and supervision of a school business manager. Prerequisites: Admission to teacher education and permission of the chairman of the department.
4740. **Independent Study.** (Arr.-Arr.-3) F, S. Student selects problem area in cooperation with instructor, conducts program of organized research and reading, prepares written formal report. Prerequisites: Senior standing and permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **Office Management.** (3-0-3) S. Duties and responsibilities of the office manager and supervisor.

4920. **Organization and Operation of Vocational Business Education Programs.** (3-0-3) F, S. Vocational office and distributive education programs as provided by the Vocational Education Act of 1963 and Amendments to that Act.
4940. **Coordination Techniques in Vocational Business Education.** (3-0-3) F, S. Duties and responsibilities of the Office Occupations and Distributive Education coordinator in a reimbursable vocational program.
4950. **Internship in Business Education.** (Arr.-Arr.-3) F, S. A minimum of 360 hours employment in a firm approved by the instructor; a training memorandum and approval prior to enrollment is required. Prerequisite: Acceptance of the student by a business firm and by the instructor as evidenced by a training memorandum.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5050. **Occupational Cooperative Education.** (3) On demand. A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
5060. **Administration and Supervision of Occupational Education.** (2) On demand. To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
5070. **Seminar in Occupational Education.** (3) On demand. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
5080. **Seminar in Occupational Education.** (1) On demand. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
5090. **Seminar in Occupational Education.** (1-4) On demand. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
5190. **Foundations of American Business.** (3) Su. The historical development of American business and industry. The evolution of business practices and principles.
5200. **Practicum in Data Processing.** (3) Su. Nature and function of unit record with special emphasis on the development of teaching materials. Not open to students with credit in Management 2300 or equivalent.
5700. **Foundations of Business Education.** (3) Su. Philosophies and objectives of business education, evolution of the business curriculum, developments in occupational business education.
5720. **Issues and Trends in Business Education.** (3) Su. Current issues and problems in business education curriculum and practices which arise from needs and interests of students.

5730. **Measurement and Evaluation in Business Education.** (3) Su. Testing techniques; construction of tests in cognitive and skill areas; statistical procedures necessary for test interpretation and use.
5740. **Improvement of Instruction in Basic Business and Consumer Education.** (3) Su. Methods and techniques of teaching; development of materials; research in the areas of basic business and consumer education courses.
5750. **Improvement of Instruction in Office Procedures and Data Processing.** (3) Su. Methods and techniques of teaching; instructional materials and media; research in office procedures and data processing courses.
5760. **Improvement of Instruction in Shorthand and Secretarial Skills.** (3) Su. Methods and techniques of teaching; instructional media, materials and equipment; research in shorthand and secretarial skill courses.
5770. **Touch Shorthand in the Secretarial Studies Curriculum.** (3) Su. Specific teaching techniques, initial mastery and development of basic recording skill in touch shorthand. Prerequisite: Basic ability in a system of manual shorthand. Laboratory fee to cover cost of machine rental and supplies.
5780. **Improvement of Instruction in Typewriting.** (3) Su. Methods and techniques of teaching; instructional media, materials, and equipment; research significant to the teaching of typewriter-related skills.
5790. **Improvement of Instruction in Bookkeeping and Accounting.** (3) Su. Methods and techniques of teaching, development of materials, research in bookkeeping, record keeping, and general business courses.
5900. **Research in Business Education.** (3) F, Su. Analysis and evaluation of research in business curricular area; introduction to research technique and preparation of formal research report.
5950. **Thesis.** (3 to 6) Plan, design, and conduct of research culminating in formal written report of research findings, conclusions, and recommendations. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study.** (1 to 6) Student selects problem area in cooperation with instructor, conducts program of organized research and reading, prepares written formal report. Prerequisite: Permission of the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

CHEMISTRY

Chemistry 1100 and 1110 is a year's sequence planned as a general cultural course and is open only to non-science majors.

For all other students Chemistry 1310 (lecture) and 1315 (laboratory) is taken the first semester. For the student who has had no high school chemistry or whose background in chemistry is weak, Chemistry 1300 should be taken instead of 1310. There is one additional meeting per week and thus the pace is slower.

For the second semester, Chemistry 1410 (lecture) and 1415 (laboratory) is offered for those whose interest is in the biological sciences and the various pre-professional programs in the medically related fields. Chemistry 1510 (lecture) and 1515 (laboratory) is offered for those whose interest is in the physical sciences, mathematics and pre-engineering. Chemistry majors should take Chemistry 1720 instead of 1515.

The following sequences are acceptable for credit toward graduation: Chemistry 1100, 1110; Chemistry 1300 or 1310 and 1315, 1410 and 1415; Chemistry 1300 or 1310 and 1315, 1510 and 1515 or 1720.

Note: A breakage fee of \$5 is charged for laboratory courses in Chemistry. The unused portion is returnable at the end of the course.

UNDERGRADUATE COURSES

- 1100, 1110. A Survey of Chemistry.** 1100 (3-2-4) 1110 (2-2-3) 1110 S, Su. A two semester terminal course covering the principles and cultural aspects of inorganic, organic and biochemistry. To be taken in sequence. These courses may not be used as a prerequisite to advanced work in chemistry. Not open to majors in botany, chemistry, geology, mathematics, physics, zoology or any of the pre-professional programs in engineering or the medically related fields.
- 1300. Introductory Chemistry.** (4-0-3) F, S. An introductory course for those with no high school chemistry or weak background. The same as Chemistry 1310 but at a slower pace. Chemistry 1315 must be taken concurrently.
- 1310. General Chemistry I.** (3-0-3) A basic course covering fundamental principles. Chemistry 1315 must be taken concurrently. Prerequisite: One year of high school chemistry.
- 1315. General Chemistry Laboratory I.** (0-3-1) Must be taken concurrently with either Chemistry 1300 or 1310.
- 1410. General Chemistry II - Bio-science.** (3-0-3) The second semester of the general chemistry sequence - specifically designed for biological science majors and those in the various medical fields. Chemistry 1415 must be taken concurrently. Prerequisites: Chemistry 1300 or 1310; 1315.
- 1415. General Chemistry Laboratory II - Bio-science.** (0-3-1) Must be taken concurrently with Chemistry 1410.
- 1510. General Chemistry II - Physical Science.** (3-0-3) S. The second semester of the general chemistry sequence - specifically designed for physical science, mathematics and pre-engineering majors. Chemistry 1515 or 1720 must be taken concurrently. Prerequisites: Chemistry 1300 or 1310, 1315.
- 1515. General Chemistry Laboratory II - Physical Science.** (0-3-1) S. Must be taken concurrently with Chemistry 1510 unless Chemistry 1720 is elected.
- 1720. Elementary Quantitative Analysis.** (1-6-3) S. Principles of gravimetric, volumetric and potentiometric analysis. To be taken concurrently with Chemistry 1510 unless Chemistry 1515 is elected. Prerequisite: One semester of college mathematics. Primarily for but not restricted to chemistry majors. Credit not granted for both Chemistry 1720 and 2340.
- 2340. Quantitative Analysis.** (1-6-3) The general principles of volumetric and gravimetric analysis with an introduction to spectrophotometry. Prerequisites: Chemistry 1410 and 1415 or 1510 and 1515; one semester of college mathematics. Credit not granted for both Chemistry 1720 and 2340.
- 2430. Organic Chemistry I.** (4-0-4) Studies in aliphatic and aromatic compounds with an introduction to the theories of organic chemistry and reaction mechanisms. Prerequisites: Chemistry 1410 and 1415, or 1510 and 1515. Credit not granted for those with credit in Chemistry 2830.
- 2435. Organic Chemistry Laboratory.** (0-3-1) To be taken concurrently with Chemistry 2430.
- 2440. Organic Chemistry II.** (2-3-3) Su, S. A continuation of Chemistry 2430. Prerequisite: Chemistry 2430. Credit not granted for those with credit in Chemistry 2840.
- 2600. Introduction to Medical Technology.** (1-2-2) S. Orientation to the field of medical technology. Limited enrollment. Course is Pass-Fail. Prerequisite: Open to sophomore medical technology students only. Permission of the chairman of the Medical Technology Program.
- 2830, 2840. Organic Chemistry for Majors.** (3-0-3 each course) 2830-F; 2840-S. Studies of aliphatic and aromatic compounds, stressing theories and reaction mechanisms. The laboratory work in 2835, 2845 includes qualitative analysis. To be taken concurrently with Chemistry 2835, 2845. Prerequisites: Chemistry 1510 and 1515 or 1720. Credit not granted to

those with credit in Chemistry 2430 and 2440. Primarily for but not restricted to chemistry majors.

- 2835, 2845. Organic Chemistry Laboratory for Majors.** (0-6-2 each course) 2835-F; 2845-S. Corequisite with Chemistry 2830, 2840.
- 3000. Undergraduate Seminar.** (1-0-1) A thorough search of a recent development in chemistry and the presentation of a talk based on this search. For juniors.
- 3100. Practicum in Chemistry.** (0-3-1) Practical experience in preparing and handling chemical materials, supervising a chemical stockroom and assisting in a chemistry laboratory. Prerequisite: Two years of college chemistry. Should be completed prior to student teaching. Enrollment is restricted to chemistry majors.
- 3460. Biochemistry.** (3-3-4) Chemistry of biologically important compounds and an introduction to their roles in living material. Prerequisites: Chemistry 2430 or 2830 and 2835. Chemistry 1720 or 2340 recommended.
- 3910, 3920. Physical Chemistry.** 3910 (4-0-3) F. 3920 (3-0-3) S. To be taken in sequence. A study of the principles governing chemical change. Included are: thermodynamics, kinetics, quantum theory and statistics. Prerequisites: Chemistry 1510. Physics 1360; Mathematics 2352.
- 4000. Undergraduate Seminar.** (1-0-1) A thorough search of a recent development in chemistry and the presentation of a talk based on this search. For seniors. Prerequisite: Chemistry 3000.
- 4400. Independent Study.** (Arr.-Arr.-1 to 6) Laboratory or library problems in which the student works under the supervision of a staff member. A written report is required. Prerequisite: Permission of the instructor and chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4760. Equilibrium and Dynamics Laboratory.** (0-6-2) S. Experimental investigation of the thermodynamic and kinetic behavior of several chemical systems. Prerequisite: Chemistry 3910; Mathematics 2320 is strongly recommended.
- 4770. Molecular Structure Laboratory.** (1-6-3) F. Experimental determination of molecular structure using NMR, mass spectroscopy, UV-Visible and IR spectroscopy. Prerequisite: Chemistry 3920.
- 4780. Instrumental Analysis Laboratory.** (1-3-2) F. Instrument design, operation and application of flame and atomic absorption spectroscopy, chromatography, potentiometry, coulometry and polarography. Prerequisite: Chemistry 3910; or simultaneous enrollment therein.
- 4900. Modern Inorganic Chemistry.** (3-0-3) F. A study of the structures and reactions of inorganic compounds with particular emphasis on chemical bonding and coordination theory. Prerequisite: Chemistry 3910. Chemistry majors enroll concurrently in Chemistry 4905.
- 4905. Modern Inorganic Chemistry Laboratory.** (0-3-1) F. Prerequisite: Chemistry 4900 or simultaneous enrollment therein.
- 4940. Nuclear Chemistry.** (2-3-3) S. Radioactivity and the radioactive properties of isotopes are studied in relationship to their chemical properties and uses. Prerequisite: Two years of chemistry.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5010. **History of Chemistry.** (2) Su. The historical development of the science of chemistry is studied with the extensive use of reference materials. Prerequisite: Two years of chemistry.
5030. **Advanced Methods for the Teaching of Chemistry.** (3) Su. The development of methods emphasizing inquiry through laboratory, demonstration and lesson presentation with self-evaluation by video-tape. Prerequisite: High school chemistry teaching experience or permission of the chairman of the department. May be used for credit toward M.S. in Education degree only.
5070. **Elements of Physical Chemistry.** (3) Su. A non-calculus course in physical chemistry designed for high school teachers of chemistry and biological science. Prerequisite: At least two years of college chemistry. Credit not granted to those with credit in Chemistry 3910, 3920. May be used for credit toward the M.S. in Education degree only.
5100. **Basic Chemistry.** (5) (Omitted 1974-75). Fundamental concepts of general chemistry. Prerequisite: For participants in NSF Summer Institute or similarly qualified science teachers.
5120. **Theoretical Inorganic Chemistry I.** (3) F. Modern theories of chemical bonding, magnetic properties and organometallic chemistry of the transition metals. Prerequisite: Chemistry 3920.
5130. **Theoretical Inorganic Chemistry II.** (2) S. Descriptive and theoretical aspects of the nontransition elements and their compounds. Prerequisite: Chemistry 3920.
5200. **Chemical Thermodynamics.** (3) F. A study of the laws governing the passage of energy from one chemical system to another and the transformation of energy from one form to another. Prerequisite: Chemistry 3920.
5230. **Quantum Chemistry.** (3) S. A study of structure of atoms and molecules as explained by quantum theory. Applications to questions of chemical interest are emphasized. Prerequisite: Chemistry 3920.
5250. **Special Topics in Physical Chemistry.** (2) May be offered as a course in (1) Electrochemistry, (2) Chemical Kinetics or (3) Group Theory. May be repeated by student if different topic is taught. Prerequisite: Chemistry 3920.
5300. **Molecular Spectroscopy.** (3) S. A study of the quantum principles, theory and applications of microwave, IR, UV, and NMR spectroscopy. Prerequisite: Chemistry 3920; Chemistry 4770 is desirable.
5400. **Physical Organic Chemistry.** (3) F. A course covering certain aspects of physical chemistry as related to organic molecules and their reactions. Prerequisites: Chemistry 2840 and 3920.
5410. **Organic Mechanisms and Synthesis.** (3) S. A study of the mechanisms of reactions and methods of synthesis in organic chemistry. Prerequisite: Chemistry 5400 or permission of the instructor.
5430. **Special Topics in Organic Chemistry.** (2) S. A study of topics not ordinarily covered in the basic introductory organic chemistry courses. Prerequisites: Chemistry 2840, 3920.
5460. **Biochemistry.** (3) General biochemistry; basic mechanisms of biological processes; enzyme action; genetic and hormonal control; metabolic cycles. Prerequisite: Chemistry 2840.
5890. **Research in Chemistry.** (3 to 6) Prerequisite: May be taken only after specific arrangements are made with the student's research advisor and the chairman of the department.
5950. **Thesis.** (3 to 6)

EARTH SCIENCE (Offered in the Department of Geography and Geology.)

UNDERGRADUATE COURSES

1410. **Weather and Climate.** (3-2-4) Study of weather and climate, the factors which influence them, and their importance to man; recent developments in meteorology presented.
1420. **Physical Geography.** (2-2-3) Study of the earth's surface, landforms, water resources, soils, vegetation, economic minerals, and their areal interrelationships. Field trip.
2420. **Regional Geomorphology.** (2-2-3) Landforms of the United States; work with maps of landforms; consideration to composition, distribution and the processes by which the land is shaped. Field trip.
3000. **Elementary Earth Science I.** (2-2-3) Earth's motions, processes of land formation, earth's resources. (No credit if Earth Science 1420 or Geology 1400 has been taken.)
3010. **Geography of the Atmosphere.** (2-2-3) An analysis of the elements and controls of weather and climate. (No credit if Earth Science 1410 has been taken.)

ECONOMICS

UNDERGRADUATE COURSES

2801. **Principles of Economics I.** (3-0-3) A short introduction followed by a discussion of the causes and cures of inflation and unemployment.
2802. **Principles of Economics II.** (3-0-3) A study of the determination of individual prices in a market economy and related problems. Prerequisite: Economics 2801.
3810. **Economics of Natural Resources.** (3-0-3) An introduction to economic analysis of natural resources and the environment. *Note:* May not be counted as part of the 36 semester hour requirement in economics for economics majors.
3833. **Economic Development of Modern Europe.** (3-0-3) (Omitted 1974-75) A survey of the economic history of Europe with primary emphasis on the period after 1850. Prerequisite: Economics 2802 or permission of the instructor.
3835. **American Economic Development.** (3-0-3) S. Evolution of the economy with emphasis on basic economic institutions and major forces in the process of growth and development. Prerequisite: Economics 2802.
3851. **Public Finance.** (3-0-3) S. A study of taxation, government spending, public debt, and the role of government in a market economy. Prerequisite: Economics 2802.
3860. **International Economics.** (3-0-3) F. Principles of foreign trade and finance; balance of payments; tariffs; quotas and commercial policies of major countries. Prerequisite: Economics 2802 or permission of the instructor.
3880. **Government and Business.** (3-0-3) S. The market structures in which business operates; public policies for regulation and control of those markets. Prerequisite: Economics 2802 or permission of the instructor.
3890. **Labor Economics.** (3-0-3) F. Wage theory, history of the labor movement, collective bargaining, labor legislation, and poverty. Prerequisite: Economics 2802 or permission of the instructor.
3990. **Summer Study in Ireland.** (0-0-6) Su. Independent study in economics. Six weeks of residence in the Republic of Ireland will be required. Open to juniors and seniors.

4505. **Business Cycles.** (3-0-3) S. Fluctuations in economic activity and their causes, methods of forecasting, and policies for growth and stability. Prerequisite: Economics 2802.
4511. **Comparative Economic Systems.** (3-0-3) F. A comparative study of the economic organization, policies, achievements and problems of the systems of capitalism, socialism, and communism. Prerequisite: Economics 2802 or permission of the instructor.
4520. **History of Economic Thought.** (3-0-3) F. To emphasize various schools of thought including the Classicalists, Socialists, Marxists, Marginalists, Institutionalists, and Keynesians. Prerequisite: Economics 2802.
4570. **Economic Problems of the Developing Countries.** (3-0-3) F. An analysis of the economic problems of the developing countries and theories of economic development. Prerequisite: Economics 2802 or permission of the instructor.
4592. **Government and Labor.** (3-0-3) (Omitted 1974-75) Federal and state laws dealing with collective bargaining, strikes, and internal affairs of labor unions are examined in detail. Prerequisite: Economics 3890 or permission of the instructor.
4594. **Economics of Human Resources.** (3-0-3) (Omitted 1974-75) A survey of the field of human resource development with emphasis on policies for correcting problems of structural unemployment and underemployment. Prerequisite: Economics 2802 or graduate standing and permission of the instructor.
4596. **Economics of Collective Bargaining.** (3-0-3) S. The subjects of collective bargaining and the resolution of conflict are studied on the theoretical and descriptive levels. Prerequisite: Economics 3890 or permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4801. **Intermediate Macroeconomic Theory.** (3-0-3) F. Analysis of the determination of national income, employment, wages, and factors affecting inflation and growth. Prerequisite: Economics 2802.
4802. **Intermediate Microeconomic Theory.** (3-0-3) F. Analysis of product and factor price theory under alternative market classifications. Prerequisite: Economics 2802.
4803. **Mathematical Economics.** (3-0-3) S. The application of mathematical tools to economics. Various economic theories are formulated in a mathematical framework. Prerequisite: Economics 4802 or permission of the instructor.
4813. **The Soviet Economy.** (3-0-3) S. A descriptive analysis of the economic structure of the Soviet Union with primary emphasis on the post World War II period. Prerequisite: Economics 2802 or permission of the instructor.
4840. **Money and Banking.** (3-0-3) F. Money and banking in the modern economy; history and theory of monetary policy. Prerequisite: Economics 2802 or the equivalent.
4859. **Economics of Public Financial Policy.** (3-0-3) F. The economic implications of government spending, taxing, and borrowing with some emphasis on state and local governments. Not open to majors in economics.
4861. **International Economic Problems.** (3-0-3) (Omitted 1974-75) Current international economic problems; balance of payments adjustment; exchange rate policy; international monetary mechanism. Prerequisite: Economics 3860 or permission of the instructor.
4872. **Economic Planning.** (3-0-3) (Omitted 1974-75) A study of development planning by public authorities in market economies as well as command economies. Prerequisite: Economics 4570 or permission of the instructor.
4874. **Latin American Economic Development.** (3-0-3) F. Economic conditions and develop-

- ment problems in various Latin American countries. Prerequisite: Economics 2802 or permission of the instructor.
4876. **Middle East Economic Development.** (3-0-3) (Omitted 1974-75) A survey of the economic conditions and problems in the Middle East as a whole and in specific countries. Prerequisite: Economics 2802 or permission of the instructor.
4950. **Independent Study.** (Arr.-Arr.-2 to 3) Independent study in economics. Designed for the individual student needs at either the undergraduate or graduate level. Prerequisite: Economics 2802 and pre-registration conference with the chairman of the department.
4991. **Statistics Applied to Economics I.** (3-0-3) F. Measures of central tendency and dispersion, statistical distributions, regression, and hypothesis testing with applications to economics. Prerequisite: Economics 2802 or permission of the instructor. No credit toward graduation for a student with credit in another introductory statistics course.
4992. **Statistics Applied to Economics II.** (3-0-3) (Omitted 1974-75) Nonparametric statistics, chi-square and F distributions, index numbers, and time series with application to economics. Prerequisite: Economics 4991 or permission of the instructor.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5801. **Advanced Macroeconomic Theory.** (3) S. Advanced analysis of determination of income, employment, investment, and wages; inquiry into the nature of equilibrium and equilibrating process. Prerequisite: Economics 4801 or permission of the instructor.
5802. **Advanced Microeconomic Theory.** (3) S. A development of value and distribution theories. Detailed analysis of the reactions of consuming and producing units. Prerequisite: Economics 4802 or permission of the instructor.
5821. **Seminar in Recent History of Economic Thought.** (3) F. A study to acquaint students with the best minds that exerted themselves on economics as a body of scientifically developed propositions since 1900. Prerequisite: Economics 4520 and/or permission of the instructor.
5841. **Seminar in Monetary Theory.** (3) F. Critical inquiry into the nature of the demand for money and the effect of monetary policy on national income and employment. Prerequisite: Economics 4840 or equivalent.
5843. **Seminar in Financial Institutions.** (3) S. The functioning of major private and public financial institutions. Prerequisite: Economics 4840 or the equivalent.
5851. **Seminar in Public Finance.** (3) S. A study of the relationship between the public sector and the rest of the economy. Prerequisites: Economics 4801 and 4802.
5861. **Seminar in International Economics.** (3) F. A study of the pure and monetary theories of international economics. Prerequisite: Economics 3860 or permission of the instructor.
5871. **Seminar in Economic Development.** (3) S. A study of the theories and institutions of development and underdevelopment. Prerequisite: Economics 4570 or permission of the instructor.
5881. **Seminar in Public Control of Industry.** (3) F. Selected problems of economic policy arising from the interrelations of government and business with emphasis on maintaining competitive enterprise. Prerequisite: Economics 3880 and/or permission of the instructor.
5891. **Problems in Labor Economics.** (3) F. The theory of wages and employment; the applica-

tions of the theory to contemporary problems. Prerequisite: Economics 3890 and/or permission of the instructor.

5893. **Economics of Manpower Resources. (3) (Omitted 1974-75)** A study of current problems in the areas of manpower development and utilization. Prerequisite: Economics 3890 and/or permission of the instructor.
5900. **Research Methods. (2) F.** The formation of concepts, hypotheses, theories and research problems; the selection of research method; error in economic data.
5950. **Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study. (1 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

EDUCATIONAL ADMINISTRATION

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4780. **Studies in Education. (3-0-3) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
4790. **Studies in Education. (2-0-2) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
4800. **Studies in Education. (1-0-1) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
4810. **School Law. (3-0-3)** A course designed to develop an understanding of the basic legal factors related to the school.
4820. **School-Community Relations. (2-0-2) F, Su.** Procedures and practices in developing a good school-community relations program.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5490. **Special Educational Problems. (1-3)** Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature. Prerequisite: Permission of the instructor.
5600. **Introduction to Organization and Administration. (4)** Educational administration in social and historical perspective; authentication and application of principles of administration. Prerequisite: Eight semester hours in education and psychology.
5630. **Administration and Supervision of the Elementary School. (4) S, Su.** Develops interrelationship of pupils, staff and patrons in the elementary school. Prerequisite: Permission of the chairman of the department.
5640. **Administration and Supervision of the Secondary School. (4) S.** Develops an understanding of the role of the principal of the secondary school.
5700. **Supervision of Instruction. (3)** Origin and development of the supervisory function. Prerequisite: Educational Foundation 5500.

5850. **School Plant Planning. (2) S, Su.** Relates school plants to the instructional program and community resources. Prerequisite: Educational Administration 5600 or equivalent.
5860. **School Finance. (3) F, Su.** A study of the support of public school and the expenditures of school funds. Prerequisite: Educational Administration 5600 or equivalent.
5870. **Personnel Administration. Teacher-Administrator Relationships. (3) F, Su.** Principles and practices of personnel administration in educational institutions. Prerequisite: Educational Administration 5600 or equivalent.
5880. **School Business Administration. (2) S.** A study of the principles of financial management as they relate to the administration of funds in public education at the local level. Prerequisite: Educational Administration 5860 or equivalent.
5900. **Introduction to Research in Education. (2)** Gives experiences in defining problems and in using research techniques in writing, interpreting, and evaluating research. Prerequisite: Eight semester hours in education and psychology.
- 5910, 5920. **Internship in Administration. (3 each course)** Prerequisite: Permission of the chairman of the department.
5950. **Thesis (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study. (1 to 6)** Intended to permit a student to pursue more intensively various aspects of the area of his special interest. Prerequisite: Permission of the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.
6200. **Curriculum in Higher Education. (2) S.** A unified study of college and university curricula.
6210. **The Junior College Movement. (2) Su.** The junior college in the United States with attention to problems of philosophy, curriculum, and operation of junior colleges in Illinois. Prerequisite: Eight semester hours in education and psychology or permission of the instructor.
6600. **Problems in School Administration. (2 or 4) F, Su.** An advanced seminar in problems of significance to educational administration. Prerequisites: At least eight semester hours in administration and supervision plus completion of Group I courses.
6650. **The Superintendent of Schools. (4)** The superintendent of schools: leadership roles, dimensions of the administrative process, and functional areas in administration. Prerequisites: A "master's" degree in Educational Administration, experience as an educational administrator, or approval of the chairman of the department.
6660. **Administration in Higher Education. (3) S.** A study of the scope, nature, and function of administration in higher education. Prerequisites: Equivalent of the master's degree and/or permission of the chairman of the department.
6700. **Seminar in Instructional Supervision. (2) On demand.** A course designed for the specialist who will have direct or general responsibility for the supervision of the instructional program or a selected segment of it. Provides experience in actual supervisory program development. Prerequisites: Educational Administration 5700 or equivalent, employment as a supervisor or permission of the instructor.
6810. **Seminar: School Operations and the Law. (2) On demand.** A course designed to advance the school administrator's understanding of the major legal factors which impinge upon his functions. Emphasis is upon current trends as revealed in recent case law and new legislation. Prerequisites: Educational Administration 4810 or equivalent or permission of the chairman of the department.
6820. **Seminar: Interdisciplinary Approach to Educational Administration. (2) On demand.** Examines the contributions of the behavioral science and the humanities to the study and

practice of educational administration. Provides an opportunity to integrate material derived from related area courses. Prerequisites: Admission to Ed.S. program and completion of at least eight semester hours in related academic disciplines. Permission of the instructor.

6900. **Seminar: Theory and Research in Educational Administration.** (2) Development of theories of administration in general and of educational administration in particular. Prerequisites: Educational Administration 5900 and 5600 or equivalent, and permission of the chairman of the department.
6910. **Field Experience in Administration.** (4) F, S. The field experience is planned by the student's committee and the supervising administrator. Prerequisite: Admission to candidacy for the degree Ed.S. and permission of the chairman of the department.
6920. **Field Experience in Administration.** (4) F, S. The field experience is planned by the student's committee and the supervising administrator. Prerequisite: Admission to candidacy for the degree Ed.S. and permission of the chairman of the department.
6920. **Field Experience in Administration.** (4) F, S. The field experience is planned by the student's committee and the supervising administrator. Prerequisite: Admission to candidacy for the degree Ed.S. and permission of the chairman of the department.

EDUCATIONAL FOUNDATION

UNDERGRADUATE COURSES

4450. **Philosophy and History of Education.** (3-0-3) The philosophical and historical foundations of leading educational theories as they treat human nature, objectives, and processes of education.
4640. **History of Education in the United States.** (2-0-2) S. Development of education as a part of national growth and the historical roots of some educational issues.
- 4741, 4742, 4743. **Independent Study.** (Arr.-Arr.-1, 2, 3 respectively) May be repeated for a total of 6 semester hours credit.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5500. **Curriculum Development.** (3) Basic determinants of curriculum; factors influencing curricular design; current trends, including experimental programs and practices. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
5510. **Social Foundations of Education.** (3) The school in society; effects of cultural patterns, social classes, community organizations, and some social problems. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
5530. **Philosophy of Education.** (2) F, Su. A study of some modern educational ideologies and of their relations with ethics, politics, religion, and art. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
5540. **History of Educational Thought.** (2) S, Su. Important educational events and ideas as these developed in Western civilization; the historical perspective for evaluating present controversies and trends. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
5550. **Comparative Education.** (3) On demand. Selected educational systems of developed and emerging nations in their cultural settings.

EDUCATIONAL GUIDANCE

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4900. **Principles and Techniques of Guidance.** (3-0-3) An introductory course, principles and purposes underlying guidance activities. Prerequisite: Eight semester hours in education and psychology. Required of students in family services curriculum.
4910. **Guidance in the Elementary School.** (3-0-3) A study of principles and techniques of guidance services in the elementary school. Prerequisite: Eight semester hours in education and psychology.
4920. **Residence Hall Personnel Work.** (3-0-3) S. A study of the functions, management, and supervision of university residence halls including administrative, business, counseling, and teaching duties. Prerequisite: Eight semester hours in education and psychology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5050. **Occupational Cooperative Education.** (3) On demand. A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
5060. **Administration and Supervision of Occupational Education.** (2) On demand. To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
5070. **Seminar in Occupational Education.** (3) On demand. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
5080. **Seminar in Occupational Education.** (1) On demand. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
5090. **Seminar in Occupational Education.** (1-4) On demand. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
5490. **Special Educational Problems.** (1-3) Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature. Prerequisite: Permission of the instructor. May be repeated for a total of six semester hours credit.
5720. **Measurement Applied to Guidance.** (3) A study of the selection, administration, scoring, and interpretation of standardized tests and other measuring techniques used in guidance programs. Prerequisite: Eight semester hours in education and psychology.

5730. **Play Therapy.** (3) S, Su. The importance of play in education; discussion of theories and values of play; using play as therapeutic treatment. Prerequisite: Permission of the chairman of the department.
5760. **Student Personnel Work in Higher Education.** (3) F. A study of personnel functions in higher education including admissions, discipline, student activities, housing, scholarship programs. Prerequisite: Eight semester hours in education and psychology.
5880. **Practicum in Student Personnel Work in Higher Education.** (3) S. Supervised practice in student personnel work according to the student's background and preferences. Prerequisites: Educational Guidance 5760 and permission of the chairman of the department.
5881. **Practicum in Student Personnel Work in Higher Education.** (3) S. Supervised practice in student personnel work according to the student's background and preferences. Prerequisites: Educational Guidance 5760 and permission of the chairman of the department.
5890. **Current Practices and Problems in Counseling.** (4) A course in theory and practices of counseling with emphasis upon the duties of the school counselor. Prerequisite: Educational Guidance 4900 or 4910.
5910. **Organization and Administration of Guidance and Personnel Services.** (3) S, Su. Principles and practices in organization and administration of guidance programs, public relations, integration of guidance services and curriculum. Prerequisite: Educational Guidance 4900 or 4910.
5920. **Occupational, Educational, Personal, and Social Information.** (3) F, Su. Sources, evaluation, and use of occupational, educational, personal, and social information. Job requirements and training facilities. Prerequisite: Educational Guidance 4900 or 4910.
5930. **Counseling Practicum.** (4) Supervised practice in counseling individual students. Practice provided at the level of the graduate's primary interest. Prerequisites: Educational Guidance 5890 and permission of the chairman of the department.
5940. **Principles and Techniques of Group Guidance.** (2) F. A study of the principles and their application in the area of group guidance. Prerequisite: Educational Guidance 4900 or 4910.
5950. **Thesis and Research.** (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990. Prerequisite: Permission of the chairman of the department.
5990. **Independent Study.** (1 to 6) Intended to permit a student to pursue more intensively various aspects of the area of his special interest. Prerequisite: Permission of the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.
6880. **Seminar in Guidance.** (3) S, Su. Discussion of current problems and trends in guidance. Critical examination and evaluation of current literature in the field. Prerequisite: Permission of the chairman of the department.
6900. **Field Study in Guidance.** (3) F. Supervised experience in all services normally considered a part of the guidance program. Prerequisite: Educational Guidance 5930 and permission of the chairman of the department.
6910. **Field Study in Guidance.** (3) F. Supervised experience in all services normally considered a part of the guidance program. Prerequisites: Educational Guidance 5930 and permission of the chairman of the department.
6941. **Principles of Group Counseling.** (2) S. A study of the principles and their application in the area of group counseling including techniques of group discussion, sociometrics, and role-playing. Prerequisite: Educational Guidance 5890.

EDUCATIONAL PSYCHOLOGY

UNDERGRADUATE COURSES

3320. **Educational Psychology and the Instructional Task in Secondary School.** (5-0-5) Individual growth and development, motivation, learning theory, appraisal of human differences. General methods, planning, instructional materials, classroom management, student evaluation, innovative practices, and professionalism. Prerequisite: Psychology 2310, junior standing. Team teaching with Secondary Education. A student may take the course for credit in only one of the departments.
- 4741, 4742, 4743. **Independent Study.** (Arr.-Arr.-1, 2, 3 respectively) May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS AND GRADUATE STUDENTS

4770. **Facilitating Interpersonal Relationships.** (3-0-3) F. A course to develop skills in interpersonal relationships and personal understanding.
4780. **Studies in Education.** (3-0-3) **On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
4790. **Studies in Education.** (2-0-2) **On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
4800. **Studies in Education.** (1-0-1) **On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4990 (Ed. Guid. 5430). **Measurement and Evaluation.** (3) Nature and use of standardized and teacher-made tests. Selection, administration, and use. Prerequisites: Eight semester hours in education and psychology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5400. **Advanced Educational Psychology.** (3) F, Su. Theories of learning; transfer and functional learning; creative thinking and problem solving; "teaching machines" and other self-instructional devices. Prerequisite: Eight semester hours in education and psychology.
5520. **Understanding the Individual.** (3) Personality development and concepts of the self; need satisfaction and perception of threat; problems of adjustment and determinants of personality. Prerequisite: Eight semester hours in education and psychology. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
5700. **Psycho-Social Development in Childhood.** (3) S. A discussion of psychological and cultural forces which shape the behavior patterns of the growing child. Prerequisite: Eight semester hours in education and psychology.
5710. **Psycho-Social Development of the Adolescent and Young Adult.** (3) F. A discussion of psychological and cultural forces which shape the behavior patterns of the maturing individual. Prerequisite: Eight semester hours in education and psychology.

5740. **Personality Dynamics.** (3) A study of the nature of personality and of various theories of personality. Prerequisite: Eight semester hours of education and psychology.
5900. **Introduction to Research in Educational Psychology and Guidance.** (2) F, Su. Gives experiences in defining problems and in using standardized research techniques in writing, interpreting, and evaluating research. Prerequisite: Eight semester hours in education and psychology.
6440. **Educational Statistics.** (3) S, Su. Fundamentals of statistics and their application. Prerequisite: Eight semester hours in education and psychology.
6780. **Theories of Aptitudes and Abilities.** (3) Su. A study of the nature of human abilities. Examination of individual differences and traits. Theories of vocational behavior. Prerequisite: Educational Guidance 5920 or permission of the chairman of the department.

ELEMENTARY EDUCATION

UNDERGRADUATE COURSES

0990. **Reading and Study Improvement for University Students.** (0-2-0) Basic reading instruction designed to improve rate, comprehension, and general study habits for university students.
1230. **Laboratory in Elementary Education.** (2-1-2) F, S. A laboratory course emphasizing directed observations and participation in classrooms with children of pre-school through junior high school ages. Required of freshmen and lower division transfer students in the elementary and junior high school education curricula.
2320. **Human Growth, Development, and Learning.** (3-0-3) Physical, social, emotional, and intellectual growth and development of children and early adolescents. Prerequisite: Psychology 2310.
3240. **Directing Learning in the Elementary School.** (3-1-3) Organization of instructional programs; planning learning experiences, evaluation, guidance, and classroom management; use of instructional media equipment. Prerequisite to student teaching. Prerequisites: Junior standing. Restricted to elementary and speech pathology and audiology majors.
3260. **Child Development for the Nursery-Kindergarten Teacher.** (3-0-3) Factors influencing development of children 3½ to 8. Some child study techniques and their application. Prerequisites: Junior standing.
3270. **Teaching Social Studies and Language Arts in the Elementary School.** (3-1-3) Objectives, techniques, and materials of social studies and language arts, excluding reading and children's literature; instruction in handwriting. Prerequisites: Elementary Education 3240 and simultaneous enrollment with Elementary Education 3280.
3280. **Developmental Reading in the Elementary School.** (3-1-3) Objectives, techniques, and materials of the basal reading program from kindergarten through junior high school; current trends in reading instruction. Prerequisites: Elementary Education 3240 and simultaneous enrollment with Elementary Education 3270.
3290. **Science in the Elementary School.** (2-2-3) Selection and development of units, demonstrations, and laboratory work. Prerequisites: Six semester hours in science; Elementary Education 3240.
4260. **Kindergarten Education.** (2-2-3) Programs, materials, and equipment for nursery school and kindergarten. Prerequisite to teaching practicum in kindergarten. Prerequisites: Restricted to majors in elementary education or enrollment in the Home Economics Child Development Option.

4690. **Material and Activities in Elementary Science.** (3-0-3) S. Selection, construction, application of materials for science teaching, and in-dept study of methods of science teaching. Prerequisite: Student teaching or teaching experience at the elementary level; Elementary Education 3290 or permission of the chairman of the department.
- 4741, 4742, 4743. **Independent Study.** (Arr.-Arr.-1, 2, 3 respectively) May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **Education in the Inner City School.** (3-0-3) S, Su. A course in methods, materials, characteristics and values basic to the teaching of students who attend the inner city school. Prerequisite: Eight semester hours in education and psychology, or permission of the chairman of the department.
4760. **Gifted and Creative Students.** (3-0-3) S, Su. A course in identifying gifted and creative children, studying their characteristics, their diversity of talents, and curriculum provisions.
4780. **Studies in Education.** (3-0-3) On demand. Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
4790. **Studies in Education.** (2-0-2) On demand. Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
4800. **Studies in Education.** (1-0-1) On demand. Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5260. **Advanced Developmental Reading.** (3) A study of the nature of reading instruction in the elementary school; approaches, goals, materials, techniques, and evaluation procedures. Prerequisite: Elementary Education 3280 or equivalent.
5490. **Special Educational Problems.** (1-3) On demand. Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature. Prerequisite: Permission of chairman of the department. May be repeated for a total of six semester hours credit.
5560. **Problems in the Teaching of Reading.** (3) Su, F. A study of the types and causes of reading difficulty; methods of diagnosis and remediation for teachers, clinicians, and supervisors. Prerequisite: Eight semester hours in education and psychology, including Elementary Education 3280 or equivalent.
5570. **Early Childhood Education.** (3) F. Consideration given to each segment of the learning continuum (ages 3½ to 8) including curriculum design, articulation, evaluation, and administration. Prerequisite: Eight semester hours in education and psychology.
5580. **Child Study for the Elementary School Teacher.** (3) S, Su. Factors influencing behavior of the elementary school child. Techniques to secure and use data to improve classroom teaching. Prerequisites: Elementary Education 3230 or equivalent. Eight semester hours in education and child psychology.
5590. **Seminar in Nursery-Kindergarten Education.** (3) Su. An analysis of curriculum issues and problems in nursery-kindergarten education. Students will select individual problems to study.

5620. **Remedial Reading Practicum.** (3) Supervised practice in diagnosing, treating, and reporting on cases of reading disability. Prerequisites: Elementary Education 5560 or equivalent. Students may enroll a second time for credit.
5630. **Supervision and Curriculum in Reading.** (2) S, Su. A study of the total school program for reading instruction; and analysis of the role of the reading supervisor or consultant. Prerequisite: Six semester hours in reading instruction.
5640. **Teaching and Supervision of Social Studies in Elementary Schools.** (3) A study of the objectives, content, materials, and techniques used in organizing, supervising, and improving the social studies program.
5650. **Language Arts in the Elementary School.** (3) F, Su. A critical analysis of language arts instruction with emphasis on the organization of the program, content, materials, and procedures. Prerequisite: Eight semester hours in education and psychology.
5660. **Science Curriculum in the Elementary School.** (3) F, Su. Scope and sequence of the elementary science curriculum; new experimental curricula; selection of materials and equipment. Prerequisites: Six semester hours of science; Elementary Education 3290 or permission of the chairman of the department.
5670. **Advanced Laboratory in Elementary Education.** (3) Su. A study of curriculum problems, trends, and developments using observations and demonstrations and analysis of instructional media and pertinent research. Prerequisite: Six semester hours in graduate courses in elementary education. Students may enroll a second time for credit.
5680. **Guiding Student Teaching.** (3) Su. Aspects of teacher education, particularly professional laboratory experiences.
5690. **Seminar in Elementary Science Education.** (3) Su. An analysis of problems and trends in elementary and junior high science education. Student selection of problems with approval of the instructor. Prerequisite: Elementary Education 5660 or permission of the chairman of the department.
5900. **Introduction to Research in Elementary Education.** (2) On demand. Gives experiences in defining problems and in using research techniques in writing, interpreting, and evaluating research. Prerequisite: Eight semester hours in education and psychology.
5950. **Thesis.** (3 to 6) On demand. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study.** (1 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

ENGLISH

Note: A student who enters the University with a deficiency in the basic skills in English — reading, writing, spelling, elements of grammar and good usage — may be required to take work in remedial English in addition to the required freshman composition courses.

Note: Courses in English are grouped for curriculum selection as follows (and the Groups are further indicated by numbers at the end of the course description):

- 1) Required Courses: 2601, 4300
- 2) Linguistics: 2901, 3901, 4901, 4902
- 3) Composition: 2003, 3001, 3003
- 4) Literary Criticism: 2205, 3205, 3206
- 5) Comparative Literature: 2602, 2603, 2607, 2608, 2609, 3504, 3600, 3607, 3608
- 6) Medieval Period: 2801*, 4801, 4802
- 7) Renaissance: 2801*, 3205, 3801, 3802, 4803, 4804
- 8) Neo-Classical: 2801*, 2805, 3205, 4805, 4806
- 9) Nineteenth Century: 2602, 2701*, 2702*, 2802*, 2805, 2806, 3206, 3701, 3702, 3805, 3806, 4707

- 10) Twentieth Century: 2602, 2608, 2609, 2702*, 2705, 2802*, 2806, 3206, 3504, 3607, 3608, 3703, 3808
 - 11) Drama: 2607, 2608, 3607, 3608, 3801, 3802
 - 12) American Literature: 2701*, 2702*, 2705, 3700, 3701, 3702, 3703, 4705, 4707
- *May be used for one group only.

UNDERGRADUATE COURSES

1001. **Composition.** (3-0-3) A basic course in theme writing, designed to develop facility in matters of sentence structure, paragraph development, and organization.
1002. **Types of Literature.** (3-0-3) An introduction to the major genres (poetry, fiction, drama). Frequent analytical papers required. Prerequisite: English 1001. Students may not enroll in English courses numbered above 1002 until they have completed English 1002, or, in the case of transfer students, until they have satisfied the all-university English requirement.
2003. **Introduction to Creative Writing.** (3-0-3) Su, F. Practice in writing poems, short stories, or plays. Class discussion of the student's writing. (Group 3)
2205. **Introduction to Literary Criticism.** (3-0-3) F. Terminology and procedures of literary criticism, with attention to critical approaches such as social, formalist, psychological, and archetypal. (4)
2601. **Backgrounds of Western Literature.** (4-0-4) A reading of major world masterpieces through the Renaissance, works that lie behind literature in English, by such writers as Homer, Sophocles, Plato, Virgil, Dante, Rabelais, Montaigne, Cervantes. Required of English majors, open to others. (1)
2602. **World Literature since the Renaissance.** (3-0-3) S. Emphasis on generally recognized masters, such as Goethe, Voltaire, Flaubert, Dostoevsky, Tolstoy, Gide, Mann, Kafka, Camus. (5, 9, 10)
2603. **Mythology.** (3-0-3) The myths, chiefly Greek and Roman, most often retold, interpreted, or alluded to by the writers and literary critics of Western Europe and America. (5)
2607. **World Drama before Ibsen.** (3-0-3) (Omitted 1974-75) Representative dramatists, such as Aeschylus, Sophocles, Euripides, Aristophanes, Marlowe, Moliere, Racine, Goethe, Schiller. (5, 11)
2608. **World Drama from Ibsen.** (3-0-3) S. Representative dramatists, such as Ibsen, Chekhov, Strindberg, Shaw, O'Neill, Williams, Miller, Wilder, Beckett, Genet, Pinter. (5, 10, 11)
2609. **Modern World Fiction.** (3-0-3) S. Major novelists, such as Conrad, Joyce, Lawrence, Ellison, Faulkner, Hemingway, Steinbeck, Mann, Kafka, Proust. (5, 10)
2701. **American Literature I.** (3-0-3) Su, F. From Colonial times through the American Renaissance, with emphasis usually on Taylor, Hawthorne, Poe, Emerson, Thoreau, Whitman, Melville. (9, 12: use for one group only)
2702. **American Literature II.** (3-0-3) S. From the close of the American Renaissance to the present, with emphasis usually on Dickinson, Mark Twain, James, Robinson, Frost, Eliot, Faulkner, Hemingway. (9, 10, 12: use for one group only)
2705. **Black Literature.** (3-0-3) F. The major writers of Black American literature, with emphasis on such authors as Toomer, Hughes, Brooks, Wright, Ellison, Baldwin, Hansberry, Jones. (10, 12)
2801. **English Literature I.** (3-0-3) Su, F. Selected prose and poetry (excluding the novel) from Beowulf to Sheridan. (6, 7, 8: use for one group only)
2802. **English Literature II.** (3-0-3) S. Selected prose and poetry (excluding the novel) from Burns to the present. (9, 10: use for one group only)

2805. **English Novel I. (3-0-3)** F. Richardson, Fielding, Austen, Scott, Thackeray, Dickens, and others. (8, 9)
2806. **English Novel II. (3-0-3)** S. George Eliot, the Brontës, Meredith, Hardy, Conrad, Joyce, Lawrence, and others. (9, 10)
2901. **Linguistic Analysis of Modern English. (3-0-3)** Introduction to the syntactic, semantic, and phonological components of Modern English, within the framework of generative-transformational grammar. (2)
3001. **Advanced Rhetoric. (3-0-3)** Su, S. Advanced application of the principles of expository writing. Attention to development of an individual style. (3)
3003. **Advanced Creative Writing. (3-0-3)** S. Experience in writing poems, short stories, plays. Prerequisite: English 2003 or permission of the instructor. May be taken twice with permission of the chairman of the department and Dean, College of Arts and Sciences. (3)
3205. **Literary Criticism I. (3-0-3)** Su, F. Selected critics from Plato to Johnson. (4, 7, 8)
3206. **Literary Criticism II. (3-0-3)** S. Selected critics from Coleridge to the present. (4, 9, 10)
3400. **Methods of Teaching English in the High School. (3-0-3)** Problems, materials, and methods for teaching English in the high school. (No group)
3405. **Literature in the Grades. (3-0-3)** Emphasizes wide acquaintance with the great bodies of world literature, myth, legend, etc., and with the best poetry for children. Enrollment restricted to students in the elementary education curriculum. (No group)
3564. **Film and Literature. (2-2-3)** Relationships between film and literature in the Twentieth Century. (5, 10)
3505. **Literary Criticism and the Film. (2-2-3)** F. Basic questions of film theory – aesthetics and literary criticism. (5, 11)
3600. **The Bible as Literature. (3-0-3)** Types of literature in the Old and New Testaments. (5)
3602. **Studies in Major Poets. (3-0-3)** Studies in depth of British, American, and world poets, with no more than three poets examined during any one semester. Topics for 1974-75: Fall – Chaucer, Shakespeare, Milton (6, 7); Spring – Shelley, Byron, Blake (9). May be taken as many as three times with permission of the chairman of the department and Dean, College of Arts and Sciences.
3603. **Studies in Major Novelists. (3-0-3)** Studies in depth of British, American and world novelists, with no more than three novelists examined in any one semester. Topics for 1974-75: Fall – Hardy, Forster, Lawrence (10); Spring – Barth and Vonnegut (10, 12). May be taken as many as three times with permission of the chairman of the department and Dean, College of Arts and Sciences.
- 3604 (4600). **Special Topics in Literature. (3-0-3)** F, S. Special topics in British, American, or world literature not ordinarily treated in standard courses. Topics for 1974-75: Fall – the Black in Faulkner (10, 12); Spring – Greek and Roman Drama (5, 11). May be taken as many as three times with permission of the chairman of the department and Dean, College of Arts and Sciences.
3607. **Theory and Practice of Modern Drama I. (2-2-3)** F. Ibsen, Shaw, Chekhov, Strindberg, O'Neill, Miller. Taught jointly by the Departments of English and Theatre Arts. Literary analysis, acting, and directing. (5, 10, 11)
3608. **Theory and Practice of Modern Drama II. (2-2-3)** S. Williams, Wilder, Beckett, Ionesco, Genet, Pinter, Albee. (5, 10, 11)
3700. **Colonial American Literature. (3-0-3)** Su. From the beginning through the Revolutionary period. (12)

3701. **American Fiction to 1900. (3-0-3) (Omitted 1974-75)** Novels and short stories of Hawthorne, Melville, Poe, Cooper, Mark Twain, James, Crane, and others. (9, 12)
3702. **American Poetry, 1800-1900. (3-0-3) (Omitted 1974-75)** Major trends in Nineteenth-Century American Poetry, with primary attention to Emerson, Poe, Whitman, Melville, Dickinson. (9, 12)
3703. **Twentieth Century American Literature. (3-0-3)** S. Representative works, with primary attention to such figures as Dreiser, Robinson, Frost, Eliot, Faulkner, Hemingway, Steinbeck, Stevens. (10, 12)
3801. **Shakespeare I. (3-0-3)** Su, F. Study of representative comedies and histories. (7, 11)
3802. **Shakespeare II. (3-0-3)** S. Study of representative tragedies and romances. (7, 11)
3805. **Romantic Literature. (3-0-3)** F. Precursors of English Romanticism and Blake, Burns, Wordsworth, Coleridge, Byron, Shelley, Keats, Hazlitt, Lamb. (9)
3806. **Victorian Literature. (3-0-3)** S. Representative works, with primary attention to such writers as Carlyle, Tennyson, Browning, Arnold, Newman, Mill, Ruskin. (9)
3808. **Twentieth Century British Literature. (3-0-3)** Su, F. Representative works (excluding the novel), with primary attention to such figures as Conrad, Eliot, Joyce, Lawrence, Yeats, Thomas. (10)
3901. **Theoretical and Applied Linguistics. (3-0-3)** Su, S. Study of the nature of language and linguistic theories, and the application of linguistics to literary studies, composition, and other areas. Prerequisite: English 2901. (2)
3990. **Summer Study in Ireland. (Arr.-Arr.-6)** Independent research in English. Six weeks of residence in the Republic of Ireland will be required. Open to juniors and seniors. (Group varies according to topic)
4300. **Senior Seminar. (4-0-4)** F, S. Major topics in English, American, and comparative literature and language, with topics varying each semester. Topics for 1974-75: Fall – Metaphor; Spring – Satire. Required of and limited to English majors. (1)

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **Studies in Black Literature. (3-0-3)** S. Study in depth of various genres, movements, periods, and major writers in black literature. Only one genre, movement, or period or only two or three major writers will be studied during any semester. Topic for Spring 1975: Issues in the criticism of Black Literature. (10, 12). May be taken as many as three times with permission of the chairman of the department and Dean, College of Arts and Sciences.
4770. **The Transcendental Movement. (3-0-3)** F. The New England Transcendental movement, with emphasis on Emerson and Thoreau. (9, 12)
4801. **Middle English Literature. (3-0-3) (Omitted 1974-75)** Representative non-Chaucerian English literature of the Middle Ages, in translation. (6)
4802. **Chaucer. (3-0-3)** S. *Canterbury Tales* and other representative works. Study of the dialect out of which modern English grew. (6)
4803. **Renaissance Literature. (3-0-3)** F. Selected Sixteenth Century works (excluding the drama), with primary attention to such writers as More, Lyly, Sidney, Spencer, Marlowe, Shakespeare, Raleigh, Campion. (7)
4804. **Seventeenth Century English Literature. (3-0-3)** Su. Selected works, with primary attention to such figures as Donne, Jonson, Herrick, Herbert, Marvell, Bacon, Browne, Milton. (7)

4805. **Restoration and Early Eighteenth Century English Literature.** (3-0-3) (Omitted 1974-75) Selected works, with primary attention to such writers as Dryden, Bunyan, Swift, Addison, Steele, Defoe, Pope. (8)
4806. **Later Eighteenth Century English Literature.** (3-0-3) (Omitted 1974-75) Selected works, with primary attention to such figures as Johnson, Boswell, Goldsmith, Cowper, Gray. (8)
4901. **History of the English Language.** (3-0-3) Su. Historical geographic, and social dialects of English. (2)
4902. **Generative and Transformational Grammar.** (3-0-3) S. Analysis of problems in syntax, semantics, and phonology according to the standard theory and current variations of that theory. Prerequisite: English 3901. (2)
4905. **Methods of Teaching Children's Literature.** (3-0-3) S. For elementary education and English majors, designed to increase their knowledge of children's literature and to suggest methods for teaching literature in grades one through six. (No group)

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5000. **Studies in Old English.** (4) F. An introduction to the language and/or literature of Old English. The study of Beowulf and other important works of Old English literature. The topic will vary from semester to semester. Topic for Fall 1974: Beowulf.
5001. **Studies in Medieval Literature.** (4) S. A study in depth of representative non-Chaucerian literature of the English Middle Ages. The course may concern itself with genres — the drama, the romance, the ballad — or with figures: the Gawain poet, William Langland, John Gower, John Lydgate, Robert Henryson. Topic for Spring 1975: Arthurian Literature.
5002. **Studies in Renaissance Literature.** (4) Su. A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topic for Summer 1974: Shakespeare.
5003. **Studies in Seventeenth Century British Literature.** (4) (Omitted 1974-75) A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.
5004. **Studies in Restoration and Eighteenth Century British Literature.** (4) F. A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topic for Fall 1974: Pope.
5005. **Studies in Nineteenth Century British Literature.** (4) F. A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topic for Fall 1974: Expository Prose.
5006. **Studies in Twentieth Century British Literature.** (4) S. A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topic for Spring 1975: Major Figures.
5007. **Studies in Literary Criticism.** (4) (Omitted 1974-75) An extensive study of the basic principles of evaluating the standard literary forms — epic, dramatic, lyrical, and prose narrative. The topic may vary from semester to semester.
5008. **Studies in Colonial American Literature.** (4) F. A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topic for Fall 1974: Science vs. Religion.

5009. **Studies in Nineteenth Century American Literature.** (4) Su, S. A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topics for 1974-75: Summer — Dickinson; Spring — Hawthorne and Melville.
5010. **Studies in Twentieth Century American Literature.** (4) F. A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topic for Fall 1974: American Humorists.
5011. **Studies in Linguistics.** (4) (Omitted 1974-75) Areas of concentration to be chosen from syntax, semantics, phonology, stylistics, psycho-linguistics, historical linguistics, dialectal linguistics, or comparative linguistics. The topic will vary from semester to semester.
5060. **Studies in European Backgrounds of British and American Literature.** (4) (Omitted 1974-75) A study of the aesthetic, literary, philosophical, social, and religious European background of British and American literature.
5061. **Special Topics in British and/or American Language and Literature.** (4) Su, S. Special topics in British or American literature not ordinarily treated in standard courses. The topic will vary from semester to semester. Topics for 1974-75: Summer — Contemporary Women Poets; Spring — The Black in Faulkner.
5950. **Thesis.** (3 to 6) Enrollment for more than three semester hours requires permission of the chairman of the department and the director of graduate studies in English. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study.** (1 to 6) Advanced study of a topic selected by the student, subject to the approval of his advisor. Enrollment for more than three semester hours requires permission of the chairman of the department and the director of graduate studies in English. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

FOREIGN LANGUAGES

Modern languages courses are conducted in the target language. Majors are encouraged to spend up to two semesters abroad after their sophomore year. Credit from approved study abroad programs will be accepted. Placement in the foreign language courses of students who wish to continue a language begun in high school is indicated by the following table. Permission of the department is necessary for initial enrollment beyond the courses in Column III.

I	II	III
Number of high school units in the language	Course in (or beyond) which the student may enroll for college credit	Course in which initial enrollment is recommended if grades in high school courses in the language average B or higher.
0-1 year	French 1101 German 1101 Latin 1101 Russian 1101 Spanish 1101	French 1102 German 1102 Latin 1102 Russian 1102 Spanish 1102
2 years	French 1102 German 1102 Latin 1102 Russian 1102 Spanish 1102	French 2201 German 2201 Latin 2201 Russian 2201 Spanish 2201

3 years	French 2201	French 2202
	German 2201	German 2202
	Latin 2201	Latin 2202
	Russian 2201	Russian 2202
	Spanish 2201	Spanish 2202
4 years	French 2202	
	German 2202	
	Latin 2202	a course numbered
	Russian 2202	above 3000
	Spanish 2202	

A student who enrolls in a course earlier in sequence than that indicated in Column II will not receive credit toward graduation, but may have the course reported to the State Teacher Certification Board in partial fulfillment of the minimum requirement for certification to teach the language.

A student may apply for proficiency examinations for college credit in courses listed on the appropriate line in Column III or more advanced courses, but not in courses earlier in sequence.

Note: A student wishing to count foreign language as a humanities requirement is referred to the statement under General Education Requirements.

FOREIGN LANGUAGE — CLASSICS

COURSES OPEN TO JUNIORS, SENIORS AND GRADUATE STUDENTS

4750. **Greek Literature in English Translation.** (3-0-3) Su, F. A survey course devoted to the masterpieces of Greek literature from Homer to Demosthenes.
4760. **Latin Literature in English Translation.** (3-0-3) Su, S. A survey course devoted to the masterpieces of Latin literature from Plautus to Suetonius.

FOREIGN LANGUAGE — FRENCH

UNDERGRADUATE COURSES

1001. **Conversational French for Beginners.** (2-0-2) F. Pass-Fail only. Introduction to understanding and speaking everyday French. Not open to majors and minors in French.
- 1101, 1102. **Elementary French.** (4-0-4 each course) Emphasis on grammar, phonetics, reading, conversation; extensive use of language laboratory. Prerequisite: For French 1102, French 1101.
- 2201, 2202. **Intermediate French.** (4-0-4 each course) Review of grammar; exercise in composition and conversation; readings; extensive use of language laboratory. Prerequisite: For French 2201, French 1102 or two years of high school French; for French 2202, French 2201 or permission of the chairman of the department.
- 3300 (3302). **French Phonetics.** (3-0-3) F. Systematic drills used to increase the student's knowledge of the phonological structure of French and to eliminate errors caused by the interference of the student's native English. Prerequisite: French 2202 or permission of the chairman of the department.
3301. **French Conversation.** (3-0-3) S. Consolidation of grammatical and phonological principles through their application in oral expositions. Prerequisite: French 2202 or permission of the chairman of the department.
3304. **French Civilization.** (3-0-3) S. Prerequisite: French 2202 or permission of the chairman of the department.

3305. **French Literature I.** (3-0-3) F. Survey of French literature from the Middle Ages to the Eighteenth Century. Prerequisite: French 2202 or permission of the chairman of the department.
3306. **French Literature II.** (3-0-3) S. Survey of French literature from the Eighteenth Century to the present. Prerequisite: French 2202 or permission of the chairman of the department.
3400. **Methods of Teaching French.** (3-0-3).
4401. **French Novel I.** (3-0-3) (Omitted 1974-75). Selected novels from Mme. de La Fayette to Balzac. Prerequisite: Three years of college French or permission of the chairman of the department.
4402. **French Novel II.** (3-0-3) (Omitted 1974-75). Selected novels from Stendhal to the present. Prerequisite: Three years of college French or permission of the chairman of the department.
4403. **French Advanced Grammar.** (3-0-3) Su. Prerequisite: French 3301 or permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **French Drama I.** (3-0-3) F. French drama of the Seventeenth Century.
4760. **French Drama II.** (3-0-3) S. French drama of the Eighteenth and Nineteenth Centuries.
4770. **French Poetry.** (3-0-3) S.
4810. **French Advanced Phonetics and Diction.** (3-0-3) Su.
4820. **French Stylistics.** (3-0-3) F.

FOREIGN LANGUAGE — GERMAN

UNDERGRADUATE COURSES

1001. **Conversational German for Beginners.** (2-0-2) F. Pass-Fail only. Introduction to understanding and speaking everyday German. Not open to German majors and minors.
- 1101, 1102. **Elementary German.** (4-0-4 each course) Emphasis on conversation, grammar, reading; extensive use of language laboratory. Prerequisite: For German 1102, German 1101.
- 2201, 2202. **Intermediate German.** (4-0-4 each course) Review of grammar; exercises in conversation and composition; reading of selected material; extensive use of language laboratory. Prerequisite: For German 2201, German 1102 or two years of high school German; for German 2202, German 2201 or permission of the chairman of the department.
3301. **German Composition and Conversation.** (3-0-3) S. Training in writing, diction, and pronunciation. Prerequisite: German 2202 or permission of the chairman of the department.
3302. **Masterpieces of German Literature.** (3-0-3) F. Prerequisite: German 2202 or permission of the chairman of the department.

3303. **German Linguistics.** (3-0-3) F. Systematic drills used to build the student's knowledge of the structure of German and to eliminate errors caused by the patterns of the student's native English. Prerequisite: German 2202 or permission of the chairman of the department.
3304. **German Lyrics and Ballads.** (3-0-3) (Omitted 1974-75) Prerequisite: German 2202 or permission of the chairman of the department.
3306. **German Twentieth Century Literature.** (3-0-3) S. Prerequisite: German 2202 or permission of the chairman of the department.
3400. **Methods of Teaching German.** (3-0-3).
4401. **German Culture and Civilization.** (3-0-3) S. Prerequisite: Three years of college German or permission of the chairman of the department.
4402. **Topics of German Literature.** (3-0-3) F, S. Prerequisite: Three years of college German or permission of the chairman of the department. May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **German Advanced Composition and Conversation.** (3-0-3) Su. Prerequisite: Three years of college German or permission of the chairman of the department.
- 4760 (5512). **Goethe.** (3-0-3) Su 1975.
4780. **Survey of German Literature II.** (3-0-3) (Omitted 1974-75) Survey of German literature from the Seventeenth to the Twentieth Centuries. Prerequisite: Three years of college German or permission of the chairman of the department.

FOREIGN LANGUAGE—LATIN

UNDERGRADUATE COURSES

- 1101, 1102. **Elementary Latin.** (4-0-4 each course) The aim in this course is to teach the student the fundamentals of the language. Special attention is given to the influence of Latin on English. Prerequisite: For Latin 1102, Latin 1101.
2201. **Introductory Latin Reading.** (4-0-4) F. Intensive review of Latin grammar, readings from Aulus Gellius, Phaedrus, Caesar. Prerequisite: Latin 1102 or two years of high school Latin.
2202. **Intermediate Latin.** (4-0-4) S. Vergil's *Aeneid*. Selections from Books I to VI. Applicable Greek and Roman mythology and philosophy; scansion, sight translation; life of Vergil. Prerequisite: Latin 2201 or permission of the chairman of the department.
3301. **Survey of Roman Literature I.** (3-0-3) (Omitted 1974-75) Chronological selections illustrative of Latin literature in the period of the Republic. Prerequisite: Latin 2202 or permission of the chairman of the department.
3302. **Survey of Roman Literature II.** (3-0-3) (Omitted 1974-75) Chronological selections illustrative of Latin literature in the period of the Empire. Prerequisite: Latin 2202 or permission of the chairman of the department.
3303. **Cicero.** (3-0-3) F. Readings from the four orations against Catiline; life of Cicero; the backgrounds of Catiline's conspiracy; selected letters. Prerequisite: Latin 2202 or permission of the chairman of the department.

3304. **Latin Literature.** (3-0-3) S. Directed readings at option of the student in philosophical essays (Cicero: *De Amicitia* and *De Senectute*); the works of Julius Caesar; Roman comedy or any similar genre in classical Latin literature. Prerequisite: Latin 2202 or permission of the chairman of the department. This course may be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.
3305. **Roman Poetry.** (3-0-3) F. (Omitted 1974-75) Selections from Catullus, Horace, Martial; Latin prosody. Prerequisite: Latin 2202 or permission of the chairman of the department.
3400. **Methods of Teaching Latin.** (3-0-3).
4401. **Ovid.** (3-0-3) (Omitted 1974-75) Selections from *Tristia*, *Heroides*, *Amores*, *Fasti*, *Metamorphoses*. The life and times of Ovid; Roman and Greek mythology. Prerequisite: Latin 3304 or permission of the chairman of the department.
4402. **Latin Composition.** (3-0-3) (Omitted 1974-75) Extensive training and practice in expression in idiomatic classical Latin. Prerequisite: Latin 3304 or permission of the chairman of the department.
4403. **Medieval Latin.** (3-0-3) F. (Omitted 1974-75) Analysis of the basic differences between Classical and Medieval Latin. Readings in the history, poetry, and philosophy of the Middle Ages. Prerequisite: Latin 3304 or permission of the chairman of the department.
4404. **Roman History.** (3-0-3) S. (Omitted 1974-75) Selections from Books XXI and XXII of Livy; selections from Tacitus' *Germania*, *Agricola*, *Annals*, and *Histories*. Prerequisite: Latin 3304 or permission of the chairman of the department.

FOREIGN LANGUAGE—LINGUISTICS

UNDERGRADUATE COURSES

3350. **Historical Linguistics.** (3-0-3) F. Introduction to historical linguistics. General principles and methods used in historical linguistic study and the types of change found in language. Prerequisite: Junior standing or permission of the chairman of the department.

FOREIGN LANGUAGE—RUSSIAN

UNDERGRADUATE COURSES

1001. **Conversational Russian for Beginners.** (2-0-2) F. Pass-Fail only. Introduction to understanding and speaking everyday Russian. Not open to Russian minors.
- 1101, 1102. **Elementary Russian.** (4-0-4 each course) Pronunciation; basic grammar; written and oral exercises; reading of simple prose; extensive use of the language laboratory. Prerequisite: For Russian 1102, Russian 1101.
- 2201, 2202. **Intermediate Russian.** (4-0-4 each course) Study of grammar continued; written and oral exercises; reading of selected material. Prerequisite: For Russian 2201, Russian 1102 or two years of high school Russian; for Russian 2202, Russian 2201 or permission of the chairman of the department.

3301. **Russian Conversation and Writing. (3-0-3) F.** Prerequisite: Russian 2202 or permission of the chairman of the department.
3303. **Russian Linguistics. (3-0-3) (Omitted 1974-75)** Prerequisite: Russian 2202 or permission of the chairman of the department.
3304. **Masterpieces of Russian Literature. (3-0-3) S.** Prerequisite: Russian 2202 or permission of the chairman of the department.
3306. **Russian Civilization. (3-0-3) (Omitted 1974-75)** Prerequisite: Russian 2202 or permission of the chairman of the department.
3308. **Russian Dramatists. (3-0-3) (Omitted 1974-75)** Prerequisite: Russian 2202 or permission of the chairman of the department.
3360. **Twentieth Century Russian Literature in English Translation. (3-0-3) F.** Prerequisite: Junior standing or permission of the chairman of the foreign language department.
3400. **Methods of Teaching Russian. (3-0-3)**

FOREIGN LANGUAGE—SPANISH

UNDERGRADUATE COURSES

1001. **Conversational Spanish for Beginners. (2-0-2) F.** Pass-Fail only. Introduction to understanding and speaking everyday Spanish. Not open to Spanish majors and minors.
- 1101, 1102. **Elementary Spanish. (4-0-4 each course)** Emphasis on conversation, grammar, reading; extensive use of language laboratory. Prerequisite: For Spanish 1102, Spanish 1101.
- 2201, 2202. **Intermediate Spanish. (4-0-4 each course)** Review of grammar; practice in conversation and composition; reading of selected material. Extensive use of the language laboratory. Prerequisite: For Spanish 2201, Spanish 1102 or two years of high school Spanish; for Spanish 2202, Spanish 2201 or permission of the chairman of the department.
3301. **Spanish Composition and Conversation. (3-0-3)** Guided conversation, grammar review, oral and written composition. Prerequisite: Two years of college Spanish or permission of the chairman of the department.
3303. **Spanish Literature I. (3-0-3) F.** Introduction to Spanish literature from the Twelfth to Seventeenth Centuries. Prerequisite: Spanish 3301 or permission of the chairman of the department.
3304. **Spanish Literature II. (3-0-3) S.** Introduction to Spanish literature from the Eighteenth to Twentieth Centuries. Prerequisite: Spanish 3301 or permission of the chairman of the department.
3305. **Spanish American Literature I. (3-0-3) F.** Introduction to Spanish American literature from the Colonial period to 1886. Prerequisite: Spanish 3301 or permission of the chairman of the department.
3306. **Spanish American Literature II. (3-0-3) S.** Introduction to Spanish American literature from 1886 to present. Prerequisite: Spanish 3301 or permission of the chairman of the department.
3400. **Methods of Teaching Spanish. (3-0-3)**
4401. **Spanish Advanced Grammar. (3-0-3) (Omitted 1974-75)** Prerequisite: Three years of college Spanish or permission of the chairman of the department.

4402. **Masterpieces of Spanish Literature. (3-0-3) Su, S.** Prerequisite: Three years of college Spanish or permission of the chairman of the department. May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.
4403. **Spanish Culture and Civilization. (3-0-3) F.** Prerequisite: Three years college Spanish or permission of the chairman of the department; this course may be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **Spanish Poetry. (3-0-3) Su, F.** May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.
4760. **Spanish Drama. (3-0-3) S.** May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.
4770. **Spanish Short Story. (3-0-3) Su.** Prerequisite: Three years of college Spanish or permission of the chairman of the department. May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.
4780. **Spanish Novelists. (3-0-3) (Omitted 1974-75)** Prerequisite: Three years of college Spanish or permission of the chairman of the department. May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.

GEOGRAPHY

UNDERGRADUATE COURSES

1500. **World Geography. (3-0-3)** Study of man on the earth, stressing significant areal difference in population and the working bonds man has developed with the land and its resources.
3020. **Anglo-America. (3-0-3)** Man's occupancy of the continent of North America with topical and regional emphasis on the United States.
3400. **Instructional Techniques. (3-0-3)** A study of the materials and methods used in the teaching of geography in the secondary school. Admission to teacher education and junior standing.
3510. **Middle America. (2-0-2)** An analysis of the resources, culture and problems of Mexico, Central America and West Indian Island.
3600. **Economic Geography. (3-0-3)** An examination of world industries and the areal significance of economic activities with emphasis on the United States.
3620. **Agricultural Geography. (3-0-3)** Essential agricultural resources and their associated industries studied with emphasis on the geographic aspects of recent developments. Rural geography treated.
3650. **Cultural Geography. (3-0-3)** A systematic treatment of the spatial characteristics of man's culture.
3720. **Geography of Illinois and the American Midwest. (3-0-3)** A study of Illinois and adjacent states: climate, landforms, soil, water and mineral resources, population distribution and economic activities and geographic regions analyzed.

- 3750. **Population Geography.** (3-0-3) Analysis of world population including demographic characteristics, growth rates and distributional patterns.
- 3800. **Cartography.** (2-4-4) Instruction and laboratory practice in compiling, designing and drafting of maps.
- 3810. **Field Techniques and Problems.** (2-4-4) Instruction and experience in designing and conducting geographical field research.
- 3870. **Conservation of Natural Resources.** (3-0-3) Geographical approach to the maintenance of a balanced ecology.
- 3950. **Seminar.** (3-0-3) Topic to be announced in printed schedule. May be taken more than once.
- 4510. **Geography of South America.** (3-0-3) Physical feature, resources, peoples, land utilization and economic development of the countries of South America.
- 4520. **Geography of Europe.** (3-0-3) Europe: an introduction to the physical geography and the economic development of its countries.
- 4530. **Geography of Asia.** (3-0-3) Physical and cultural geography as a background for understanding the current problems in southwestern, southern and eastern Asia.
- 4550. **The Soviet Union.** (3-0-3) An analysis of the physical and cultural elements that make up the geographical regions of the Soviet Union.
- 4580. **Geography of Africa.** (3-0-3) A regional study of Africa. Development and interpretation of physical, political, economic and social regions in Africa.
- 4700. **Historical Geography of the United States.** (3-0-3) Focuses on reconstructing past geographies of the United States.
- 4710. **Political Geography.** (3-0-3) A study of the geographical basis to political power.
- 4730. **Independent Study.** (Arr.-Arr.-3) Provides opportunity for independent study at the graduate or undergraduate level. May be taken for credit more than once.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4760. **Urban Geography.** (3-0-3) An analytical approach to the origin, development, structure, functions and problems of urban areas.
- 4770. **Development of Geographic Thought.** (3-0-3) Analysis of the historical development of basic themes of geography. Emphasis on modern thought.
- 4780. **Techniques in Geographic Research.** (3-0-3) An introduction to selected techniques in geographic research. Emphasis is accorded to statistical, bibliographic, interview methods and in research and writing.
- 4800. **Advanced Cartography.** (2-4-4) The analysis and reproduction of maps and aerial photographs. Prerequisite: Mathematics 1310 or equivalent.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5950. **Thesis.** (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

- 5990. **Independent Study.** (1 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

GEOLOGY

UNDERGRADUATE COURSES

- 1400. **Physical Geology.** (3-2-4) Common rocks and minerals; erosional processes that modify the Earth's surface, internal crustal activity. Field trip. No credit if Earth Science 3000 is taken.
- 2430. **Historical Geology.** (2-2-3) Development of major structural segments of Earth's crust; fossil record of life; age relations among rock units. Field trip. Prerequisite: Geology 1400.
- 2440. **Mineralogy.** (1-4-3) A study of minerals with emphasis on crystallography, genesis, association, and classification. Prerequisites: Geology 1400 and one course of college level chemistry.
- 3040. **Modern Global Geoscience.** (2-2-3) Modern geoscience and physical oceanography, origin of present-day continents and ocean basins, interpretation of earth interior.
- 3430. **Structural Geology.** (2-2-3) Forces involved in the deformation of rocks with emphasis on the recognition and interpretation of the resultant geologic structures. Field trip. Prerequisite: Geology 2430.
- 3440. **Field Geology.** (1-4-3) Solution of geologic problems using field methods and techniques in collection, classifying and analyzing data. Prerequisites: Geology 2430 and permission of the instructor.
- 3450. **Petrology** (2-2-3) Physical and chemical properties of rocks, their origin, classification and geologic distribution. Field trip. Prerequisite: Geology 1400.
- 3460. **Economic Geology.** (2-2-3) Origin, geologic occurrence and utilization of metallic and non-metallic mineral deposits including fuels and ground-water. Field trip. Prerequisite: Geology 1400.
- 3470. **Seminar.** (Arr.-Arr.-3) Discussions, reports, and field work concerning selected geologic topics, with instructor guidance. May be taken more than twice for credit if a different topic is covered each time.
- 4400. **Independent Study.** (Arr.-Arr.-3) Independent study in the field of geology, designed for the individual needs of the student. Prerequisites: Geology 2430 or permission of the instructor. May be taken twice.
- 4450. **Stratigraphy and Sedimentation.** (3-2-4) Sequence and correlation of layered rocks; sedimentary facies; laboratory analysis of sediments; properties of sedimentary rocks; environmental interpretation. Field trip. Prerequisites: Geology 2430 and 3450.
- 4490. **Invertebrate Paleontology.** (2-2-3) Description and classification of major fossil invertebrate groups; preservation of fossils; use of fossils in geologic work. Field trip. Prerequisite: Geology 2430.

HEALTH EDUCATION

UNDERGRADUATE COURSES

- 1200. **Personal Health.** (2-0-2) The application of scientific health facts and principles that relate to effective living.

1320. **First Aid. (2-0-2)** Designed to teach students the basic skills necessary to handle home and school emergencies.
2270. **Community Health. (3-0-3)** Factors in the physical, biological, and social environments that influence the magnitude and character of health problems, goals, and solutions. Prerequisite: Health Education 1200 or equivalent.
2900. **Diseases of Man. (2-0-2)** S. A study of the processes of disease and the occurrence of diseases in man.
3000. **Instructor's First Aid. (3-1-3)** F, S. Standard, advanced, and instructor's first aid.
3010. **Public Health Nursing. (3-0-3)** Su. A review of public health nursing principles, particularly for school nurses. Prerequisite: Permission of the chairman of the department. Recommend further work in health education which is a commonality course area for all public health personnel.
3200. **School Health. (2-0-2)** A survey of the school health program with emphasis on the responsibilities of school personnel. Prerequisite: Health Education 1200 or equivalent.
3300. **Principles of Accident Prevention. (2-0-2)** Safety problems of modern life in the home, school, during recreation, on the highway, and at work.
3310. **Introduction to Driver Education. (3-2-4)** Preparation for high school driver education teachers. Includes simulation and work with beginning drivers. Prerequisites: Driver's license and safe driving record.
3320. **Advanced Driver Education and Traffic Safety. (2-0-2)** Administration, organization, finance, special programs, and evaluation of school driver education programs.
3340. **Accident Prevention in Schools. (2-0-2)** Scope of the school safety problem. Administrative, instructional and community responsibility for safe schools.
3350. **Industrial Accident Prevention. (2-0-2)** S. Trends and organizational techniques in accident prevention programs as related to industrial operations.
3400. **Teaching Health. (3-0-3)** F, S. Teacher preparation in curriculum development appraising materials, methods of presentation.
3500. **Human Sexuality. (3-0-3)** A study of the biological, psychological, and cultural dimensions of human sexuality. *Note:* Credit may not be earned in both Health Education 3500 and Home Economics 2800.
3750. **Health Care Delivery Systems. (3-0-3)** F, S. Review of contemporary approaches to the delivery of health care services in the United States.
- 4000, 4010, 4020. **Community Health Field Service. (4000, 4010-3 sem. hrs. each; 4020-2 sem. hrs.)** An individually planned internship in a community health agency or organization. Prerequisites: Health Education 2270, 3200, 3750; and approval of the chairman of the department.
- 4741, 4742, 4743, 4744, 4745, 4746. **Independent Study. (Arr.-Arr.-1, 2, 3, 4, 5, 6 respectively)** An individual study under faculty supervision of pertinent literature, research, programs or other sources related to selected topic in Health Education. Prerequisite: Permission of the chairman of the department. *Note:* May be repeated; the maximum amount of credit which may be earned is six semester hours.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4760. **Public Health Statistics and Data Analysis. (3-0-3)** F. A review of mathematical principles and elementary statistics as related to an analysis of public health statistics. Prerequisite: Health Education 2270 or permission of instructor.
4800. **Alcohol, Narcotics, Hallucinogenic Drugs: Science and Society. (3-0-3)** F. The use and abuse of drugs.

4820. **World Health Perspectives. (2-0-2)** F. A survey of health status, beliefs, values, and practices of peoples and cultures in different parts of the world.
4900. **Multi-Phase Driver Education. (2-2-3)** The five phase driver education curriculum. Actual practice with multi-media equipment-simulators, student response systems and the multi-car range. Prerequisites: Health Education 3310 or concurrent enrollment or permission of the instructor.
4996. **Problems in Health Education. (3-0-3)** Su. Provides information relative to the health problems of the nation, school, and community, including resources, people, agencies and materials.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5010. **Current Health Problems. (3)** S. An epidemiological investigation of the cause, nature, extent, and programming of current health problems.
5050. **Occupational Cooperative Education. (3) On demand.** A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
5060. **Administration and Supervision of Occupational Education. (2) On demand.** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
5070. **Seminar in Occupational Education. (3) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
5080. **Seminar in Occupational Education. (1) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
5090. **Seminar in Occupational Education. (1-4) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.

HISTORY

UNDERGRADUATE COURSES

- 1510 (2510). **European Foundations of the Modern World. (3-0-3)** An introduction to the cultural intellectual, social and political developments in Europe from the Renaissance through Napoleon. (For majors and non-majors.)

- 1520 (2520). **The World since 1814.** (3-0-3) An introduction to ideas and forces, cultural and intellectual developments, major revolutions and world conflicts that shaped the 19th and 20th centuries. (For majors and non-majors.)
2010. **History of the United States to 1877.** (3-0-3) The colonial period; the independence movement; framing and adoption of the Constitution; growth of American nationality; Manifest Destiny; the Civil War and Reconstruction.
2020. **History of the United States since 1877.** (3-0-3) The new industrial society; agrarian movement; the United States as a world power through two world wars, depression and after.
3010. **Constitutional History of the United States to 1865.** (3-0-3) (Omitted 74-75) The constitutional history of the United States from the beginning to 1865.
3020. **Constitutional History of the United States since 1865.** (3-0-3) (Omitted 74-75) The constitutional history of the United States from 1865 to the present.
3030. **Social and Intellectual History of the United States to 1877.** (3-0-3) F. The background and development of the social and intellectual history of the United States through the mid-Nineteenth Century.
3040. **Social and Intellectual History of the United States since 1877.** (3-0-3) S. The development of ideas and the way of life in later Nineteenth and Twentieth Centuries with emphasis on changes in thought resulting from two world wars.
3050. **The Old South.** (3-0-3) F. A social history of the South before 1865 with emphasis on cultural deviations between North and South.
3060. **The New South.** (3-0-3) S. A social history of the South since 1865, tracing the effects of the Civil War upon southern culture and developments in the Twentieth Century.
3070. **History of the American Frontier, 1492-1790.** (3-0-3) F. The discovery, settlement, and westward movement in the United States, emphasizing the effect of the frontier in American history.
3080. **History of the American Frontier, the Trans-Appalachian Frontier, 1790-1890.** (3-0-3) S. The occupation of the Mississippi Valley emphasizing the role of the frontier.
3090. **Diplomatic History of the United States, 1776-1914.** (3-0-3) F. The American Revolution, Napoleonic Era, Expansion, Civil War, The War with Spain and Overseas Expansion, Rooseveltian Diplomacy.
3100. **Diplomatic History of the United States, 1914 to the Present.** (3-0-3) S. First World War and Versailles, Isolation, World War II and problems of global politics.
3110. **Afro-American History, 1619-1903.** (3-0-3) A history of Afro-Americans from their African background, the slave trade, struggle for equality and the decades of disappointment.
3120. **Afro-American History 1903-Present.** (3-0-3) A history of Afro-Americans in the Twentieth Century. An examination of their struggle for civil rights, the advancement of black culture and black power.
3180. **History of Illinois.** (3-0-3) A history of the state from the French regime through the Civil War to the present.
3250. **Latin-American History to 1830.** (3-0-3) F. A survey of the colonial period of Latin American History.
3260. **Latin-American History since 1830.** (3-0-3) S. A survey of the republican period of Latin-American History.
3430. **History of England, 1066-1688.** (3-0-3) F. A survey of English History from the Norman conquest to the Glorious Revolution.

3440. **History of England and the British Empire, 1688-Present.** (3-0-3) S. A survey of English History from the Glorious Revolution to the present.
3510. **Ancient History.** (3-0-3). Peoples and eras for 4,000 years from Sumer to Rome — religions and law, governments and societies, arts and sciences.
3520. **Medieval History.** (3-0-3) Empire and culture in the Latin West and in the Greek East — law, education, science, art and literature, society.
3530. **Islam to 1700.** (3-0-3) (Omitted 1974-75) The conquests, law and customs, arts and sciences of the Moslem world, including Spain, Persia, the Turks, and the Sudan.
3550. **Spanish History.** (3-0-3) F. Crucial Periods: Moorish and Reconquest Kingdoms 711-1492, Empire and Splendor 1492-1600, 20th Century.
3610. **Czarist Russia.** (3-0-3) F. History of Russia to 1800.
3620. **Czarist and Soviet Russia.** (3-0-3) S. History of Russia from 1801 to the present.
3700. **Europe in the Eighteenth Century.** (3-0-3) F. A study of the rise of new powers with emphasis on the ideas of the Enlightenment.
3710. **The French Revolution.** (3-0-3) S. A study of the French Revolution and the concept of revolution in general.
3720. **Europe in the Nineteenth Century.** (3-0-3) F. A study of nationalism, and other important "isms" of the century.
3730. **The World in the Twentieth Century.** (3-0-3) S. The apex and decline of European hegemony in the age of the world wars, class war, cold war and totalitarianism.
3990. **Summer Study in Ireland.** (0-0-6) Su. Independent research in history. Six weeks of residence in the Republic of Ireland will be required. Open to juniors and seniors.
4010. **The American Colonies.** (3-0-3) F. Colonization of the area now included in the United States; the political, economic and social development of the American colonies to 1763.
4020. **The American Revolution and Confederation.** (3-0-3) S. The origins of the American Revolution; consequences of the revolution; problems of the critical period; American Constitutionalism.
4030. **Making A Nation, 1787-1812.** (3-0-3) (Omitted 1974-75) The creation of the federal government and the rise of the American nation.
4040. **Jackson and the Emergence of the New Politics.** (3-0-3) (Omitted 1974-75) The reorganization of American politics and the rise of the "common man."
4050. **Expansion and Disunion, 1840-1861.** (3-0-3) F. A study of the expansionist period of the mid-Nineteenth Century and the background of the Civil War period.
4060. **Civil War and Reconstruction.** (3-0-3) S. A survey of the causes of the Civil War, the War, and its legacy.
4080. **The Emergence of Industrial America.** (3-0-3) F. An intensive study of the transformation of the United States from a largely agrarian society to an urban and industrial power between the years 1870 and 1920.
4090. **Recent United States History.** (3-0-3) S. An intensive study of political, social and intellectual developments in the United States since World War I.
4120. **American Urban History.** (3-0-3) F. An intense study of American urban development.
4130. **The History of Racism in the United States.** (3-0-3) F, S. A survey of the racist ideology in the United States as directed at various minority groups.
4132. **History of Religion in the United States.** (3-0-3) F. A study of the religious life of the

- American people and how it has interacted and influenced other dimensions of our national experience from the colonial days to the present.
4150. **Readings on the American Character.** (3-0-3) S. Studies of the American Character and Mind, 1607 to the present.
4260. **Problems in Latin-American History.** (3-0-3) (Omitted 1974-75) Major problems in the history of Latin-America.
4280. **Latin-America and the United States.** (3-0-3) (Omitted 1974-75) A study of the history of diplomatic relationships between Latin America and the United States.
4400. **Independent Study in History.** (Arr.-Arr. 1 to 4) (No student may earn more than four semester hours credit) Intensive individual study on a topic selected by student with approval of instructor.
4410. **Constitutional History of England to 1485.** (3-0-3) (Omitted 74-75) The development of the common law, court system and constitutional monarchy to 1485.
4420. **Constitutional History of England since 1485.** (3-0-3) (Omitted 74-75) The development of the common law, court system, constitutional monarchy and democratic institutions since 1485.
4430. **Stuart England.** (3-0-3) F. The struggles of political forces in Great Britain during the rise to world power.
4440. **Hanoverian England.** (3-0-3) (Omitted 1974-75) A thorough study of England in the "Age of Reason," to which it contributed many ideas.
4450. **Victorian England.** (3-0-3) S. Great Britain and her Empire in the age of their greatest influence and extent.
4500. **Historical Methods.** (2-0-2) F, S. Instruction in research techniques and the mechanics of historical composition.
4555. **History of Modern Socialism.** (3-0-3) Sp. The development of socialist theories and societies in modern times.
4640. **Social and Intellectual History of Russia and the U.S.S.R., 1825-Present.** (3-0-3) (Omitted 1974-75) A social and intellectual history of Russia from 1825 to the present.
4650. **History of Nationalism: Patterns and Manifestations.** (2-0-2) F. Comparative and analytical study of nationalism as a history making force in the modern world, Nineteenth and Twentieth Centuries.
4660. **Eastern Europe from World War I to the Present.** (3-0-3) (Omitted 1974-75) Eastern Europe from World War I to the present.
4710. **History of Germany, 1815-1918.** (3-0-3) (Omitted 1974-75) The rise of nationalism and liberalism, the 1848 Revolution, Bismarck and the emergence of the German Reich, World War I.
4720. **Germany since 1919.** (3-0-3) (Omitted 1974-75) The Weimar Republic, National-Socialism, World War II, Post-war Germany.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5160. **Seminar in American History.** (3) Intensive study of special topics in American history, to be determined by the instructor.

5200. **Seminar in Colonial American History** (3) Research in topics dealing with Colonial American history.
5210. **Seminar in Civil War and Reconstruction.** (3) Intensive study in topics dealing with Civil War and Reconstruction.
5220. **Seminar in Twentieth Century America.** (3) Intensive study in topics dealing with Twentieth Century America.
5300. **Seminar in Afro-American History.** (3) Selected problems dealing with major intellectual currents and personalities in Afro-American history.
5310. **Seminar in Social and Intellectual History.** (3) Research in topics dealing with social and intellectual history of the United States.
5320. **Seminar in the American West.** (3) An intensive study of western topics with emphasis on a seminar paper.
5330. **Problems in the Diplomatic History of the United States.** (3) Intensive reading in selected problems of United States diplomacy.
5600. **Seminar in European History.** (3) Intensive study in special topics in European history, to be determined by the instructor.
5620. **Seminar in the Middle Ages and the Renaissance.** (3) Study and research in selected Medieval and Renaissance topics.
5640. **Seminar in Eighteenth Century Europe.** (3) Intensive study in topics dealing with Eighteenth Century Europe.
5650. **Seminar in Nineteenth Century Europe.** (3) Intensive study in topics dealing with Nineteenth Century Europe.
5660. **Seminar in Twentieth Century Europe.** (3) Intensive study in topics dealing with Twentieth Century Europe.
5700. **European Diplomacy, 1919-1945.** (3) Study of interwar diplomacy with emphasis on Paris Peace Treaties, Rapallo, Locarno, Munich, Little Entente, Hitler Stalin Pact.
5720. **Seminar in Russian Foreign Policy.** (3) Selected topics in Russian foreign policy from 1814 to 1960.
5900. **Historiography.** (3) Major historians: American or European.
5950. **Thesis.** (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study.** (1 to 6) Special permission of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

HOME ECONOMICS

UNDERGRADUATE COURSES

1120. **Foods I.** (1-2-2) A study of the guidelines important in developing desirable habits in providing the family food supply.
1150. **Nutrition.** (3-0-3) The principles of human nutrition and their application to everyday nutritional problems. For majors only (See Home Economics 3190 for others.)

- 2120. Foods II. (1-4-3) F, S.** A study of the scientific principles and techniques underlying food preparation. Prerequisite: Home Economics 1120.
- 2231. Sociology of Clothing. (3-0-3) F.** Significance of psychological reasons for clothing selection; political and economic trends affecting clothing.
- 2232. Historic Costume and Fashion Analysis. (3-0-3) F.** A historic and current study of fashion; the production and distribution of fashion goods.
- 2244. Consumer Textile Products. (2-0-2) A** study of family clothing and common household textile products as they relate to the consumer.
- 2245. Textiles. (3-0-3) S.** An introduction to the study of fibers, methods of fabricating textiles, and finishes on the market. Prerequisite: Home Economics 2244.
- 2250. Household Equipment. (3-0-3)** Selection, construction, operation and care of household equipment and their relation to the well-being of the family group.
- 2251. Household Physics. (1-4-3) S. (Alternate odd years)** Application of selected principles of electricity, heat, light, sound; physical and chemical characteristics of materials used in the home. Prerequisite: Home Economics 2250.
- 2270. Family Housing. (2-0-2)** Arrangement and use of space; legal and financial considerations in renting, buying, or building; methods and materials of construction.
- 2800. Family Relationships. (3-0-3)** Study of the family as the basic unit of society; personal relationships, and family interaction throughout the family life cycle. *Note:* Credit may not be earned in both Home Economics 2800 and Health Education 3500.
- 2850. Child Development. (3-0-3)** The physical, intellectual, social, and emotional development of the pre-school child.
- 3120. Experimental Foods. (1-4-3) S.** Studies of physical and chemical reactions in food preparation when experimental procedures are applied. Prerequisite: Home Economics 2120.
- 3140. Family Food Management. (0-4-2) F, S.** Application of scientific principles of menu construction, food buying, food preparation and table service with special emphasis on management. Prerequisite: Home Economics 2120.
- 3150. Advanced Nutrition. (2-0-2) F, S.** Human nutrition principles applied to needs of individuals at various stages in the life span, with emphasis on nutrition education. Prerequisite: Home Economics 1150 or equivalent.
- 3190. Human Nutrition and Food Study. (2-0-2) F.** Fundamentals of nutrition as applied to adults and children; principles involved in menu building, food buying and preparation. For non-majors only.
- 3236. Principles of Clothing Construction. (0-10-5)** Principles in the selection of fabrics, designs and patterns; construction processes; garment fitting.
- 3237. Tailoring. (0-6-3) F, Su.** Fabric selection and techniques used in the tailoring of a suit or coat. Prerequisite: Home Economics 3236 or permission of the instructor.
- 3300. Consumer Education. (3-0-3)** Factors affecting family financial management, including investments and savings; use of credit; insurance and taxes. Team taught with Business Education 3000.
- 3307. Home Management Theory and Laboratory. (1-4-3) F, S.** A study of planning, guiding, and directing the use of human and material resources toward individual and family goal achievement. Prerequisite: Home Economics 2120.
- 3370. Field Experience. (Arr.-Arr.-3)** An individually planned work experience in a business or agency appropriate to the student's area of specialization. Prerequisite: Junior standing,

- permission of the Dean and acceptance of the student by a business or agency. May be taken not more than twice for credit.
- 3371. Field Experience. (Arr.-Arr.-3)** An individually planned work experience in a business or agency appropriate to the student's area of specialization. Prerequisites: Junior standing, permission of the Dean of the School of Home Economics and acceptance of the student by a business or agency. May be taken not more than twice for credit.
- 3400. Methods of Teaching Home Economics. (3-0-3) F, S.** The principles of teaching applied to home economics with particular emphasis on curriculum development.
- 3750. Independent Study in Home Economics. (Arr.-Arr.-3)** Provides opportunity for in-depth study of home economics subjects for which there is not an established course. May be taken for credit only once. Prerequisite: Prior approval by the instructor and the Dean.
- 3820. The Family in Social Change. (2-0-2) S.** The study of social change in the family and recent trends in family life and family life education. Prerequisite: Home Economics 2800, or permission of the instructor.
- 3831. Women in Contemporary Society. (3-0-3)** An interdisciplinary study of the emergence of women as a viable force in contemporary society.
- 3853. Practicum in Child Development. (1-4-3)** Supervised observation and participation in the guidance of children in the Nursery School. Prerequisites: Home Economics 2850 or Elementary Education 2320 or permission of the instructor.
- 3920. Communications in Home Economics. (2-0-2) S.** Techniques and skills in communicating home economics ideas, attitudes and subject matter with individuals and groups.
- 3925. Demonstration Techniques. (0-4-2) F.** Development of desirable techniques and standards for use in business, teaching, and adult education.
- 4140. Institutional Food Management. (1-4-3) F.** Practice in quantity food production, menu planning, recipe standardization, management of time motion and materials. Prerequisites: Home Economics 1150 or 3190 and 2120.
- 4150. Diet Therapy. (2-2-3) (Odd numbered years) S.** A study of the therapeutic care of a patient through the prescription of specific diets in relation to disease syndromes. Prerequisite: Home Economics 3150.
- 4237. Professional Tailoring Techniques. (0-4-2) (Even numbered years) S.** Techniques used in altering and/or restyling women's and men's tailored garments. Prerequisite: Home Economics 3237.
- 4238. Principles of Pattern Design. (0-6-3) F.** Principles of designing clothing and the translation of these designs into an original pattern. Prerequisite: Home Economics 3236 or permission of the instructor.
- 4280. Interior Design and Home Furnishings. (3-0-3) S.** The selection, production, and arrangement of home furnishings at different income levels.
- 4300. Consumer Problems. (0-4-2) S.** Current issues and problems confronting the contemporary family in safe-guarding and spending the family income. Prerequisite: Home Economics 3300 or equivalent.
- 4400. Senior Seminar. (3-0-3) F, S.** Philosophy, current trends and research in home economics.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4840. The Disadvantaged Family. (3-0-3)** Low income and minority group families and their values, needs, problems and practices. Prerequisite: Home Economics 2800 or permission of the instructor.

4845. **The Family in Crisis. (3-0-3) S.** In-depth study of major crisis situations faced by families. Some emphasis on resources that offer help to families faced with crisis situations. Prerequisite: Home Economics 2800 or permission of the instructor.
4846. **Aging and the Family. (3-0-3) S.** Aging as a phase in the family developmental process and the consequent effect. Prerequisite: Home Economics 2800 or permission of the instructor.
4851. **Infant Development. (2-0-2) F.** Neonatal and postnatal development; trends of pediatric management for optimum health and welfare.
4854. **Parent-Child Study. (3-0-3) S.** Detailed study of parent-child interaction and techniques and methods for parent education; observation and participation included.
4859. **Administration of Child Care Programs. (3-0-3) F.** Organization, administration, curriculum, facilities, and parent education aspects of child care programs. Prerequisite: Home Economics 3853 or permission of the instructor.
4940. **Homemaker Rehabilitation. (2-0-2) (Even numbered years) F.** Personal and family problems of the handicapped homemaker, stressing techniques which lead to independence.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5050. **Occupational Cooperative Education. (3) On demand.** A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
5060. **Administration and Supervision of Occupational Education. (2) On demand.** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
5070. **Seminar in Occupational Education. (3) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
5080. **Seminar in Occupational Education. (1) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
5090. **Seminar in Occupational Education, (1-4) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics and Industrial Arts. A student may take each course for credit in only one of the departments.
5120. **Contemporary Developments in Foods. (3-0-3)** Selected topics from recent developments in the science of food preparation, prefabrication, and preservation. Prerequisite: Home Economics 2120 or equivalent.
5150. **Community Nutrition Programs. (3)** A study of the problems of nutrition that affect large numbers of people and that are solved through group action. A study project is part of the course.

5300. **Curriculum Development in Consumer Economics. (3) (Even numbered years) S.** Recent trends in consumer economics, consumer education programs and legislation affecting consumers.
5360. **Seminar in Clothing and Textiles. (3-0-3)** A study of selected topics in the fields of clothing, textiles, and related areas, which is designed for the professional home economist. Prerequisites: Home Economics 2245 and 3237 or equivalents.
5400. **Curriculum Development in Home Economics Education. (2) F. (Even numbered years)** Theoretical background and experimental approaches to curriculum improvement.
5410. **Curriculum Development in Occupational Education. (2) S. (Odd numbered years)** Occupational training aspects of home economics education as outlined in the Vocational Educational Act of 1963.
5450. **Supervision in Home Economics. (3) F.** The role of the supervising teacher; problems of orientation, guidance and evaluation.
5460. **Current Issues and Trends. (3) S.** A seminar dealing with the current and emerging problems, issues, trends, and developments in the field of home economics.
5470. **Evaluation in Home Economics. (2) S.** Development and critical evaluation of instruments designed to measure pupil growth.
5900. **Research Methods in Home Economics (2) (Odd numbered years)** Research techniques in writing, interpreting, and evaluating home economics research.
5950. **Thesis. (3 to 6)** Individual direction of research thesis writing. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study. (1 to 6)** To offer opportunity and challenge for a student to pursue needed study in the area in which appropriate courses are not being currently offered. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

INDUSTRIAL ARTS

UNDERGRADUATE COURSES

1013. **Basic Engineering Drafting. (1-4-3)** Graphics in industry; basic graphical projection, spatial relationships, classification, specifications and topographical graphics.
1043. **Engineering Graphics. (1-4-3) F, S.** Multiview, graphs, isometric and oblique projection; sectional views and dimensioning; concepts of descriptive geometry.
1063. **Metals in Technology. (1-4-3)** Processes and commercial application of metals with emphasis on design and manufacturing as influenced by fabricating procedures.
1113. **Survey of Graphic Arts. (1-4-3)** A survey of graphic arts and allied industries with study of surface image transfer.
1163. **AC and DC Circuits. (2-2-3)** Comprehensive study of alternating and direct current with practical laboratory application.
1213. **Woods in Technology. (1-4-3)** Function, care and use of woodworking tools, equipment, supplies and finishes.
1293. **Industrial Crafts. (1-4-3)** Development, concepts, and selected processes in various craft media; recreation, special education and consumer oriented.
1323. **Power in Technology. (2-2-3)** Internal combustion, reaction and pressure engines. Electrical and nuclear power, hydraulics, pneumatics.

1412. **Orientation to Study of Industrial Education.** (2-0-2) F, S. Origin, development organization and administration of general and occupational programs of industrial education.
2023. **Fabrication Drafting Analysis.** (2-2-3) S. Drafting techniques, methods and standards in industrial fabrication. Prerequisite: Industrial Arts 1013.
2052. **Industrial Arts Design.** (2-0-2) S. History, philosophy, and methodology in the concepts and essentials of industrial design.
2123. **Photo Conversion Laboratory.** (1-4-3) S. Image assembly, photo conversion techniques. Black and white line and halftone, color separation. Prerequisite: Industrial Arts 1113.
2163. **Basic Vacuum Tube Circuits.** (2-2-3) F. Descriptive, graphic and equivalent circuit approach to the study of tubes as applied to rectification and amplification. Prerequisite: Industrial Arts 1163.
2173. **Basic Semi-conductor Circuits.** (2-2-3) S. Semi-conductor devices; study of transistors, oscillators, detectors, etc. Prerequisite: Industrial Arts 1163.
2223. **Basic Fabrication of Woods.** (1-4-3) S. Power woodwork equipment and mass production. Prerequisite: Industrial Arts 1213.
2242. **Primary Grade Industrial Arts.** (1-2-2) Industrial arts activities as a teaching device in the primary grades. Emphasis on career, occupational awareness and special education preparation.
2252. **Intermediate Grade Industrial Arts.** (1-2-2) F, S. Industrial arts activities as orientation to industry (manufacturing, etc.) with laboratory experiences. (Consumer, career and special education emphasized.)
2353. **Heat Engines.** (3-0-3) S. Design and systems for control, air pollution characteristics, cooling, electricity, and lubrication of gasoline, diesel, gas turbine, jet and rocket engines. Prerequisite: Industrial Arts 1323.
3013. **Architectural Planning and Analysis.** (2-2-3) S. Cost factors in home construction, styles, planning and selection of materials.
3023. **Architectural Drafting and Design.** (1-4-3) F. Principles of house construction, construction details, working drawings, and specifications.
3033. **Production Drafting and Design.** (2-2-3) S. Comprehensive study of uses and construction of production drawings in graphic communication. Prerequisite: Industrial Arts 1013.
3063. **Metal Machining Processes.** (1-4-3) F, S. Study of processes involved in lathe, mill, shaper, drills, surface grinder operations. Prerequisite: Industrial Arts 1063 or Industrial Technology 1013.
3072. **Production Metal Processes.** (0-4-2) S. Multiple part production involving design, layout, shaping and fabrication. Prerequisite: Industrial Arts 3063.
3082. **Advanced Metal Processes.** (0-4-2) S. Comprehensive metal processes involving casting, grinding, chipless machine operation, numbered control and equipment selection. Prerequisite: Industrial Arts 3063.
3102. **Forming and Fabricating Sheet Materials.** (1-2-2) F, S. Design, layout, forming, shaping and fabrication of sheet materials. Prerequisite: Industrial Arts 1063.
3123. **Image Transfer Laboratory.** (1-4-3) F. Stripping, imposition, lock-up, image carriers. Special make-readies, offset, letterpress image transfer. Prerequisite: Industrial Arts 1113.
3133. **Graphic Arts Technology.** (3-0-3) F. Production of books, magazines, newspapers with computer implications for typesetting, quality control, inventory and personnel. Prerequisite: Industrial Arts 1113.

3223. **Wood Turning and Finishing.** (1-4-3) F. Comprehensive study of wood finishing, origin, development and techniques of wood turning.
3233. **Production Wood Technology.** (1-4-3) S. Furniture and cabinet construction with power equipment. Prerequisite: Industrial Arts 2223.
3313. **Electrical and Chemical Power.** (3-0-3) F. Sources of electrical and chemical power, batteries, electromotive, generators. Prerequisites: Industrial Arts 1163 and 1323.
3322. **Power Transmission.** (2-0-2) S. Comprehension of design and methods of transmitting power by hydraulics, pneumatics and mechanical unit. Prerequisite: Industrial Arts 1323.
3400. **Methods of Teaching Industrial Arts.** (3-0-3) F, S. Teaching techniques and the selection and organization of industrial material. Prerequisites: Four courses in industrial arts.
4052. **Graphical Industrial Illustration.** (0-4-2) S. In-depth study of graphical representation and statistical data. Prerequisite: Industrial Arts 2023.
4093. **Welding Technology.** (1-4-3) F, Su. Study of gas and electric welding. Prerequisite: Industrial Arts 1063.
4123. **Image Transfer Theory.** (3-0-3) F. Papers, inks, image transfer carriers, equipment systems, materials, commodities. Prerequisite: Industrial Arts 1113.
4212. **Restoration of Antique Furniture.** (1-2-2) Study of antique furniture and complete restoration.
4223. **Mass Fabrication in Woods.** (0-6-3) F. In-depth study of mass production techniques in the wood industry. Prerequisites: Industrial Arts 2223 or 3233.
4231. **Tool Maintenance.** (0-2-1) S, Su. Comprehensive study of tool and equipment maintenance and repair.
4313. **Ignition and Fuel Systems.** (2-2-3) F, Su. Comprehensive scientific study of total ignition and fuel systems concepts. Prerequisite: Industrial Arts 1323.
4470. **Independent Study.** (Arr.-Arr.-1-5) Technical investigation involving written research and laboratory experimentation. Prerequisite: Permission of the instructor.
4480. **Independent Study.** (Arr.-Arr.-1-5) Research oriented-technical investigations involving written research and laboratory experimentation. Prerequisite: Permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4752. **Applied Descriptive Geometry.** (2-0-2) S. Advanced spatial projection theories, spatial relationships and geometry of points, lines, and planes; problem solution by rotation.
4763. **Photo-conversion Theory.** (3-0-3) S. Image assembly, photo conversion technique. Emphasis upon optics and chemistry of photo-conversion. Prerequisite: Industrial Arts 1113.
4902. **Task Analysis and Course Outline.** (2-0-2) Study of the techniques of analyzing occupations with specific components and developments of course outline for instruction program. Prerequisite: Industrial Arts 3400.
4932. **Organization of Subject Matter.** (Arr.-Arr.-2) Advanced work in preparation of instructional materials. Prerequisite: Industrial Arts 3400.
4953. **Student Achievement and Program Evaluation.** (3-0-3) Su. Comprehensive study of techniques of evaluation and criteria for program evaluation. Prerequisite: Industrial Arts 3400.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5050. **Occupational Cooperative Education. (3) On demand.** A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 5060. **Administration and Supervision of Occupational Education. (2) On demand.** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 5070. **Seminar in Occupational Education. (3) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5080. **Seminar in Occupational Education. (1) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5090. **Seminar in Occupational Educational. (1-4) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5503. **Graphic Arts in a Changing Culture. (3) S, Su.** Graphic arts from an art to a technology — incunabula period.
- 5652. **History and Philosophy of Industrial Education. (2) F, Su.** Sociological principles, theories, and beliefs which have contributed to present educational theory.
- 5722. **Innovations in Industrial Education. (2) S, Su.** Comprehensive investigation of current experimental and established programs.
- 5803. **Facility Planning in Industrial Arts. (3) Su.** Study facilities and equipment needs for teaching industrial arts, opportunity is provided for planning new laboratories and redesigning established laboratories.
- 5900. **Introduction to Research in Industrial Education. (2)** Study of research techniques and a research project — including written report and laboratory experimentation.
- 5950. **Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. **Independent Study. (1 to 6)** Preparation of instructional display panels and devices. Slides, transparencies, etc., research papers. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

INDUSTRIAL TECHNOLOGY

UNDERGRADUATE COURSES

- 1013. **Industrial Materials and Processes. (3-0-3) F.** Sources, extra-active processes, properties, manufacturing methods, appropriate utilization, and environmental ecological impact of industrial materials.
- 3003. **Industrial Mechanics. (3-0-3) F.** Mechanics of machinery, including gear, belt, cam hydraulic, and pneumatic power transmitting systems. Prerequisites: Physics 1350 and Mathematics 1340.
- 3012. **Metrology and Inspection Procedures. (2-0-2) S.** Applications of metrology in production manufacturing; inspection instruments and procedures. Prerequisites: Industrial Arts 1163 and 3063; junior standing.
- 3043. **Engineering Geometry and Graphics. (2-2-3) F.** Advanced spatial geometry; parallel, angular and perpendicular relationship; graphical calculus; empirical equations; plane and space vectors. Prerequisites: Industrial Arts 1013 or 1043; Mathematics 1340.
- 3163. **Communications Circuits and Systems. (2-2-3) F.** Electronic power supplies, audio amplifiers, transmitters and receivers. Prerequisites: Industrial Arts 2163 and/or 2173.
- 3201. **Surveying. (0-2-1) F.** Field work in location, elevation, and land surveys. Prerequisites: Industrial Arts 1013 or 1043; Mathematics 1310.
- 3905. **Industrial Internship. (Arr.-Arr.-5)** Employment experience in an area related to the student's option. May be taken only under Pass/Fail option. Prerequisite: Permission of the chairman of the department; junior standing.
- 3915. **Industrial Internship. (Arr.-Arr.-5)** Employment experience in an area related to the student's option. May be taken only under Pass/Fail option. Prerequisite: Permission of the chairman of the department; junior standing.
- 3920. **Independent Study. (Arr.-Arr.-1-5)** Independent study related to personal technological career goals in industrial technology. May be repeated to a maximum of five semester hours of elective credit in industrial technology. Prerequisite: Junior standing and permission of the chairman of the department.
- 4002. **Materials Testing. (0-4-2) S.** Applied analysis of mechanical and physical properties of industrial materials. Prerequisites: Mathematics 1340; Industrial Arts 3063; Industrial Technology 1013; Physics 1350.
- 4043. **Statistical Quality Assurance. (3-0-3) S.** Principles of total quality control; shewhart control charts; acceptance sampling; capability and reliability studies. Prerequisites: Mathematics 1340; junior standing.
- 4163. **Industrial Electronics. (1-4-3) S.** Industrial control of processes, materials, machines, energy and information. Prerequisites: Industrial Technology 3163 or Physics 3150.
- 4172. **Electronic Instrumentation. (1-2-2) F.** Application of basic electronic instrumentation devices, transducers and elements in measuring temperature, level, flow, viscosity, humidity, pH and displacement. Prerequisite: Industrial Arts 1163.
- 4222. **Principles of Cost Estimating. (2-0-2) S.** Procedures in estimating material, labor and fabrication costs. Prerequisite: Junior standing.
- 4243. **Construction Practices. (3-0-3) S.** Methods, materials, and procedures in construction management. Contracting, personnel management, specification procedure, fabrication techniques. Prerequisite: Industrial Arts 3023.
- 4602. **Physical Metallurgy. (0-4-2) F.** Methods of altering, controlling and determining physical properties of metals. Prerequisite: Industrial Arts 3063.

4643. **Metal Casting Processes.** (1-4-3) S. Control and prevention of casting defects, sand conditioning, melting and pouring techniques. Prerequisite: Junior standing.

INSTRUCTIONAL MEDIA

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4780. **Studies in Education.** (3-0-3) **On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
4790. **Studies in Education.** (2-0-2) **On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
4800. **Studies in Education.** (1-0-1) **On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
4870. **Introduction to Instructional Media.** (3-0-3) Theory and principles for use of instructional media.
4880. **Preparation and Use of Instructional Materials.** (1-4-3) Production of locally prepared instructional materials. Materials fee.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5200. **Television in Education.** (3) Su, F. Methods and techniques of television production, direction, and operation covering open and closed-circuit television.
5210. **Instructional Systems.** (3) F. Study and development of instructional systems in the teaching-learning situation.
5220. **Photography in Education.** (3) Photographic techniques for making materials for classroom instruction. Emphasis upon prints, color slides and large transparencies. Materials fee.
5230. **Organization and Supervision of Instructional Media Programs.** (3) S. Problems of organizing and supervising media in the individual school, district, county and/or university.
5300. **Advanced Media Design.** (4) S. Advanced design and creation of instructional materials for media specialists. Prerequisites: Instructional Media 4880, 5220, or permission of the chairman of the department.
5310. **Communication Through Instructional Media.** (3) F. Nature of media in communication and relationship to skills needed for media specialists. Prerequisites: Instructional Media 4870, 4880, or permission of the chairman of the department.
5490. **Special Educational Problems.** (1-3) **On demand.** Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of significant nature. May be repeated for a total of six semester hours credit.

5890. **Seminar in Instructional Media.** (3) S, Su. Special study on problems of production, administration and utilization of instructional media materials in schools. Prerequisite: Instructional Media 4870, 5210, or equivalent.
5900. **Introduction to Research in Instructional Media.** (2) **On demand.** Provides experience in defining problems and in using research techniques in writing, interpreting, and evaluating research. Prerequisite: Instructional Media 5210, 5310, or permission of the chairman of the department.
5950. **Thesis and Research.** (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study.** (1 to 6) **On demand.** Intended to permit a student to pursue more intensively various aspects of the area of his special interest. Prerequisite: Permission of the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.
6100. **Motion Picture Photography in Instructional Media.** (4) **On demand.** Motion picture photography taught through study of commercially produced educational films and individual production of a short motion picture film. Materials fee. Prerequisite: Instructional Media 5220.
6110. **Field Experience.** (4) S. Supervised experience in conducting instructional media programs. May be arranged in school in which student is employed, or other arrangements acceptable to the department may be made.
6120. **Field Experience.** (4) S. Supervised experience in conducting instructional media programs. May be arranged in school in which student is employed, or other arrangements acceptable to the department may be made.
6300. **Advanced Photography in Education.** (4) S. Teaching media specialists the use of the photographic image in the educational process. Prerequisite: Instructional Media 5220. Materials fee.
6310. **Program and Script Writing for Instructional Television.** (3) F. Designed to provide experience in planning and writing for instructional television. Prerequisite: Instructional Media 5200.

JOURNALISM

UNDERGRADUATE COURSES

2100. **Introduction to Journalism.** (3-0-3) Historical development of American mass media, with emphasis on the newspaper; the mechanics, the craft, and the ethics of journalism.
2101. **Newswriting I.** (2-2-3) Principles of gathering and writing news; laboratory experiences with basic news stories.
2102. **Newswriting II.** (2-2-3) F, S. Advanced techniques of reporting; laboratory experiences with specialized news stories. Prerequisite: Journalism 2101.
3100. **News Editing and Make-Up** (2-2-3) F, S. Editing the news, emphasizing copy-editing, headlines and page design. Prerequisite: Journalism 2101.
3101. **Advanced Reporting** (3-0-3) F, S. Interpretative reporting, with emphasis on communication law. Prerequisite: Journalism 2101.
3102. **Article Writing.** (2-0-2) F, S. Newspaper-magazine features, articles. Study of free-lance writing.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4800. **Supervision of High School Publication. (3-0-3) Su.** Problems for advisors to high school publications; staff recruitment, staff-faculty relationships, production problems, and editorial judgments.

JUNIOR HIGH SCHOOL EDUCATION

UNDERGRADUATE COURSES

3110. **Directing Learning in the Junior High School. (3-1-3) F, S.** Administration, organization, and function of the junior high school; general methods, planning, evaluation, guidance and classroom management.
3130. **Teaching Social Studies and Language Arts in the Junior High School. (3-1-3) F, S.** The objectives, methods, materials, and content with an emphasis upon correlation. Prerequisites: Junior standing; Junior High School Education 3110.
3140. **Teaching Mathematics and Science in the Junior High School. (3-1-3) F, S.** The scope, sequence, and interrelationship of the mathematics and science curricula, including methods and materials. Prerequisites: Junior standing; Junior High School Education 3110.
4280. **Teaching Reading in the Secondary School. (2-2-3) F, S.** Techniques for providing appropriate reading instruction in proper sequence for students in grades seven through twelve. Prerequisite: Eight semester hours in education and psychology.
- 4741, 4742, 4743. **Independent Study. (Arr.-Arr.-1, 2, 3 respectively)** May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4770. **The Junior High School. (3-0-3) F, even numbered years; Su, odd numbered years.** Study of historical development, current practices, policies, and trends in junior high school education. Prerequisites: Eight semester hours in education and psychology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5270. **Reading Instruction in the Junior and Senior High School. (3-0-3) F, S.** A systematic study of the objectives, methods, materials, and organization of junior and senior high school reading programs. Prerequisite: Eight semester hours in education and psychology.

LIBRARY SCIENCE

The undergraduate minor consists of eighteen semester hours. Junior standing is a prerequisite for beginning to take Library Science courses. The study of Library Science and Instruc-

tional Media courses can be combined to meet requirements for school personnel employed as media specialists. Students interested in Library Science are encouraged to talk with the chairman of the department about program plans.

UNDERGRADUATE COURSES

3200. **The School Library Materials Center. (3-0-3)** The services and administration of the school library materials center.
3300. **Literature for Children. (3-0-3)** Types of resources best suited to children of grades 1 through 6. Reading and evaluation of materials.
3320. **Literature for Young People. (3-0-3)** Types of resources best suited for adolescents. Reading and evaluation of materials.
4490. **Observation and Practice. (2-8-3)** Practical experience in library work with special emphasis on service to the public. Two seminars per week. Prerequisites: At least four library science courses including 4750, 4760, and 4770.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **Reference Materials and Services. (3-0-3)** Introduction to general and specialized sources of information: their content, evaluation, and use.
4760. **Selection of Library Materials. (3-0-3)** Principles and practices related to selecting and acquiring all types of library materials.
4770. **Organization of Library Materials. (3-0-3)** Principles and techniques of cataloging, classification, and the assigning of subject headings with practical application to books and other materials.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5100. **History of Libraries. (3) F.** Study of the development of the library as an institution.
5200. **Library Administration. (3) Su, S.** Principles of administration with practical application to the management of libraries. Prerequisites: Library Science 4750, 4760, 4770.
5300. **Studies in Children's Materials and Services. (3) S, Su.** A critical investigation of contemporary library materials and services designed for children. Includes national and international developments.
5320. **Studies in Adolescent and Young Adult Materials and Services. (3-0-3) Su, F.** Survey of library materials designed for adolescents and young adults. Includes analysis of materials for reading guidance and discussion of national and international developments.
5600. **Organization of Information and Library Materials. (3) Su, S.** Advanced study of information systems and library catalogs: history, preparation, evaluation, management and use. Prerequisites: Library Science 4750, 4770.
5710. **Social Science Literature. (3) Su.** Intensive study of information sources in sociology, geography, psychology, economics, anthropology, history, and political science. Prerequisites: Library Science 4750 and 4760.
5720. **Literature of the Humanities. (3) F.** Intensive study of information sources in religion, philosophy, music, art, literature, and language. Prerequisites: Library Science 4750, 4760.

5730. **Literature of Science and Technology.** (3) S. Intensive study of information sources in science and technology. Prerequisites: Library Science 4750, 4760.
5850. **School Library Problems.** (3) F, Su. Examination of current trends, problems, and research relating to school libraries and media centers.
5860. **Mechanization of Library Operations.** (3) S. Survey and demonstration of machine applications in library operations. Prerequisites: Library Science 4760, 4770, 5600, or permission of the chairman of the department.
5900. **Introduction to Library Research.** (2) Su, S. A study of the introductory methods of research in the field of Library Science. Prerequisites: Library Science 4750, 4760, 4770.
5950. **Thesis.** (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study.** (1 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

LIFE SCIENCE

UNDERGRADUATE COURSES

1000. **Life Science.** (1-4-3) A study of the fundamental processes and structures common to all living things. This course is prerequisite to all botany and zoology courses.
3000. **Seminar in Environmental Biology.** (0-2-1) A discussion of contemporary problems in environmental biology and their solutions. Such topics as air pollution, waste reclamation will be discussed. Prerequisites: Nine semester hours in life science, botany and/or zoology.
3010. **Environmental Biology.** (3-0-3) A study of the components of the physical and biological environment, the Ecology of Mankind, man's effect on the environment, the effect of the environment upon man, current problems and their possible solutions. Prerequisite: Life Science 1000.
3400. **Methods of Teaching Biological Science in High School.** (2-2-3) A study of teaching techniques including the collection and use of materials for demonstrations and laboratory experiments.
4080. **Internship in Environmental Biology.** (Arr.-Arr.-12) Twelve semester hours required for major in Environmental Biology. This course to be taken Pass-Fail, but not to count against the maximum of four courses in Pass-Fail option. Employment experience in one or more phases of environmental work for one semester in an agency or firm approved by the Division of Life Sciences. Prerequisite: At least eighty semester hours of work in Environmental Biology program and approval of the director of the Division of Life Sciences.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **Population Biology.** (2-2-3) S. Methods of quantitative analysis of biological data at the population level. Prerequisites: Eighteen semester hours in life science, botany and/or zoology, including Botany 3361 or Zoology 3200. May be substituted for a three-semester-hour elective in botany or zoology in completing the requirements for a botany or zoology major.

MANAGEMENT

UNDERGRADUATE COURSES

1420. **Business in Society.** (3-0-3) The business firm in the social and legal framework of society, its responsibility and contributions to society.
2010. **Business Communications.** (3-0-3) Practice in formulation and communication of business information, oral and written. Prerequisite: Business Education 1110 or equivalent.
2300. **Data Processing for Business.** (3-0-3) Modern information processing systems and equipment; includes electronic computers and punched card systems.
2310. **Computer Programming for Business.** (3-0-3) Analysis of several high-level programming languages and software systems. Prerequisite: Management 2300 or Mathematics 2310 or permission of the instructor.
3010. **Principles of Management.** (3-0-3) Organization fundamentals: objectives, functions, structure and operational procedure, interpersonal relationships, control and motivation systems, and communications.
3310. **Data Processing Systems for Business.** (3-0-3) The structure and development of manual, mechanical, and electronic information handling systems. Prerequisite: Management 2310.
3320. **Computer File Organization and Management Methods.** (3-0-3) The universal data base used with modern computer systems. Includes file organization, maintenance, retrieval, and security. Prerequisite: Management 2310.
3330. **Real Time Business Systems.** (3-0-3) F. A study of the process of integrating the computer based, file-oriented business system into its operational environment. Prerequisite: Management 3320.
3450. **Personnel Management.** (3-0-3) Objectives, functions, and organization of a typical personnel program. Prerequisite: Management 3010 or a major in recreation.
3460. **Business Law.** (3-0-3) Introduction to law; contracts; agency and employment; commercial paper; personal property and bailments.
3470. **Business Law.** (3-0-3) Sales; partnership and corporations; real property and leases; insurance; security devices; bankruptcy; wills and estates. Prerequisite: Management 3460.
3700. **Principles of Finance.** (3-0-3) Survey of the private and public sector of finance. Discussion of basic principles for financing business. Study of financial institutions. Prerequisite: Economics 2802.
3710. **Business Financial Management.** (3-0-3) Methods of financing large and small corporations. The corporation, investor and society considered. Prerequisites: Management 3700 and Accounting 2020.
3720. **Investments.** (3-0-3) F. Study of the mechanics of investment analysis. Selection of securities for portfolios with emphasis on personal investing. Prerequisites: Management 3700 and Accounting 2020.
3800. **Introduction to Operations Research.** (3-0-3) F. An introduction and survey of the quantitative approaches to managerial decision making under conditions of certainty, risk, uncertainty, and competition. Same as Accounting 3800. Prerequisite: Mathematics 1290 or 1300. Offered in Accounting, Management, and Marketing. A student may take the course for credit in only one of the departments.
3810. **Business Statistics I.** (3-0-3) Provides a working knowledge of the statistical tools used in analyzing business problems. Prerequisite: Mathematics 2110, or permission of the instructor.

3820. **Business Statistics II. (3-0-3)** S. Extension of the range of topics covered in Business Statistics I. Prerequisite: Management 3810.
3830. **Business Report Writing. (3-0-3)** The organization and preparation of research-oriented reports used in business and technical communication. Prerequisite: Junior standing or permission of chairman of the department.
3900. **Risk and Insurance. (3-0-3)** S. Risks to which man and property are subject, including life, property, and liability insurance. Prerequisites: Management 3700 and 3810 or permission of the instructor.
4200. **Security Analysis and Portfolio Management. (3-0-3)** S. A case problem approach — including investment policies, practices and analysis of direct and indirect investments. Prerequisites: Management 3710, 3720, 3810.
4300. **Data Processing Laboratory. (Arr.-Arr.-3)** Processing of information by using punched card equipment and the computer. Individual projects. Prerequisite: Management 2300.
4340. **Operations Management. (3-0-3)** F, S. Management of manufacturing enterprises. Includes operations research techniques, plant locations, layout, and services. Prerequisites: Management 3010, 3810 or permission of the instructor.
4350. **Methods Analysis. (3-0-3)** Study of the procedure and techniques involved in methods analysis. Prerequisite: Management 4340 or permission of the instructor.
4360. **Managerial Decision Making. (3-0-3)** A study of administrative processes under conditions of uncertainty, integrating analysis and policy determination. Prerequisite: Management 3010, 3810, and senior standing.
4370. **Job Evaluation. (3-0-3)** S. Analysis of the methods and techniques used in evaluating jobs. Prerequisites: Management 3010 and 3450.
4380. **Labor Law. (3-0-3)** F. An analysis of the principles of American labor law; administrative board decisions; major state and Federal legislation. Prerequisite: Management 3470 or permission of the instructor.
4390. **Real Estate. (3-0-3)** S. A study of theory and practice in real estate, with social and economic implications. Prerequisite: Management 3470.
4450. **Collective Bargaining. (3-0-3)** S. Deals with the role played by management and labor representatives in the collective bargaining process. Prerequisites: Management 3010, 3460, 4380 or permission of instructor.
4610. **Management of Data Processing. (3-0-3)** S. Planning, controlling, evaluating, budgeting for, and protecting the data processing functions, equipment, and personnel. Prerequisite: Management 3310 or permission of the instructor.
4730. **Internship in Management. (Arr.-Arr.-3)** Employment experience in a phase of management for one semester in a firm approved by the chairman of the department. Prerequisites: Permission of the chairman of the department and acceptance of the student by a business firm on the basis of the student's application.
4740. **Independent Study. (Arr.-Arr.-3)** Individual study programs under direction of the head of the department. Prerequisites: Senior standing and permission of chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **Case Problems in Business Law. (3-0-3)** S, Su. Case problems approach to the various topics in the field of business law. Prerequisite: Management 3470 or the equivalent.
4800. **Budgeting. (3-0-3)** F. Fundamental concepts underlying a profit planning and control program and their relationship to the primary functions of management. Same as Ac-

counting 4800. Prerequisite: Accounting 2020. Offered in Accounting and Management. A student may take the course for credit in only one of the departments.

4830. **Current Problems in Finance. (3-0-3)** A survey of current literature in finance and business with a seminar approach in discussing present problems, topics, and developments. Prerequisite: Management 3700.
4840. **Commercial Bank Management. (3-0-3)** The organization and management of commercial banks; function, departments, personnel, policies. Prerequisites: Accounting 2010 and Economics 2802.
4900. **CDP Problems. (3-0-3)** F. Study and review of the areas covered by the Certificate in Data Processing (CDP) Examination — equipment, programming and software, principles of management, quantitative methods, and systems analysis and design. Prerequisite: Permission of the instructor.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5160. **Contemporary Issues in Management. (3)** Su. Current problems in the areas of management. For teachers of business subjects having little or no management background.
5310. **Communication Analysis. (3)** S. Analysis of the functions, planning, psychology, and the organization of selected types of written and oral business communications.
5320. **Management Information Systems. (3)** F. The accumulation, processing, analysis, and utilization of data pertinent to the operation of the business firm. Prerequisite: Management 2300.
5330. **Operations Management. (3)** F. An examination of operating problems from the standpoint of the product executive. Prerequisite: Management 3010.
5340. **Foundations of Business Enterprise. (3)** S. The historical development of business enterprises — the social and economic role of the executive. The evolution of the business organizations and practices and their relationship to society.
5630. **Manpower Management. (3)** F. A comprehensive study of personnel programs and their management in formal organizations; research into the operation of personnel management.
5640. **Financial Management. (3)** F. A framework for determining efficient allocation of resources within the firm. Methods of economic analysis to relate the functional discipline of managerial finance — techniques for forecasting financial requirements under uncertainty, problems of income determination, long-term commitments to uncertain payoff vectors, internal and external capital rationing, and problems of identifying capital supply functions. Prerequisite: Management 3700; 3710 also suggested.
5820. **Seminar in Organizational Theory. (3)** S. Value systems underlying management thought. The behavioral sciences as they pertain to organization behavior and practice. Prerequisites: Management 3010, and admission to candidacy.
5830. **Seminar in Business Finance. (3)** S. A macro approach; the student is responsible for integrating macro economic and financial information. Includes interviewing a financial decision maker. Prerequisite: Management 5640.
5890. **Administrative Policy. (3)** S. Top management functioning. Emphasis is on integration of functions. Case studies, special reports, and seminar discussions of top management problems. Prerequisites: At least twelve semester hours of MBA graduate courses and admission to candidacy.

5900. **Business Research Methods.** (2) F. Business research methodology including the meaning of research, its sequential development, types, and the steps of the scientific method applied to business. Practical and academic applications are explored. Offered in Accountancy, Management, and Marketing. May be taken for credit in only one of the departments.
5950. **Thesis.** (3 to 6) Developing the method of attack and executing a formal research study in the area of management concern. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study.** (1 to 6) F, S. The study of a problem in the administrative management area in cooperation with an assigned instructor in a general or specific area. *Note:* A maximum of nine semester hours may be earned in combination of 5990 and 5950.

MARKETING

UNDERGRADUATE COURSES

3470. **Marketing in Business and Society.** (3-0-3) Marketing channels; marketing functions and institutions; methods in marketing agricultural products, raw materials and manufactured goods. Prerequisite: Economics 2802.
3480. **Sales Communications.** (3-0-3) Personal marketing communications; assessing buyers' needs, persuasion, and student role-playing in simulated sales presentations.
3490. **Marketing Middlemen and Channels.** (3-0-3) Analysis of the roles of middlemen in retail, industrial and other wholesale levels in the marketing channel system, with special attention to the management of channel flows of goods, ownership, and financing. Prerequisites: Marketing 3470 and Accounting 2010.
3500. **Principles of Advertising.** (3-0-3) Social and economic aspects of advertising; kinds of advertising; selection of media; costs; analysis of copy and displays; format; layout; slogans; campaigns. Prerequisite: Marketing 3470 or permission of instructor.
3720. **The Behavior of Buying.** (3-0-3) The buying process at the levels of ultimate consumer, intermediate reseller and industrial user; psychological, sociological and economic foundations of buying behavior. Prerequisite: Marketing 3470.
3800. **Introduction to Operations Research.** (3-0-3) F. An introduction and survey of the quantitative approaches to managerial decision making under conditions of certainty, risk, uncertainty, and competition. Prerequisite: Mathematics 1290 or 1300. Offered in Accounting, Management, and Marketing. A student may take the course for credit in only one of the departments.
4490. **International Marketing.** (3-0-3) F. An introduction to foreign trade with emphasis on international marketing institutions, cooperation, and technical features of overseas operations. Prerequisite: Marketing 3470.
4730. **Internship in Marketing.** (Arr.-Arr.-1-6) Employment experience in some phase of marketing for one semester, in a firm approved by the chairman of the department. Prerequisite: Permission of the chairman of the department.
4740. **Independent Study.** (Arr.-Arr.-1-6) Intensive investigation of a particular area in marketing, determined in joint consultation with appropriate instructor. Prerequisites: Approval by the chairman of the department and cooperating instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4760. **Physical Distribution Management.** (3-0-3) S. The study of integrated distribution systems, reflecting the transportation principles, economic analysis and marketing management considerations required to effect physical flows of goods from production points through market channel networks to purchaser destinations. Prerequisites: Marketing 3470 and Management 3010.
4780. **Advertising Management.** (3-0-3) F, S. Application of the management functions to advertising. Prerequisites: Management 3010 and Marketing 3500.
4860. **Marketing Research.** (3-0-3) Nature and scope of marketing research; scientific method and research designs; specific marketing research procedures; research report and follow-up. Problems. Prerequisites: Marketing 3470 and Management 3810 or its equivalent.
4870. **Marketing Management Strategy.** (3-0-3) Marketing problems encountered by businesses that find it necessary to adapt marketing organization and policy to changing economic conditions. Prerequisites: Accounting 2020, Marketing 3470 and Management 3010.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5130. **Contemporary Issues in Marketing.** (3) Su. Current issues involved in delivery of a standard of living. For teachers of business subjects having little or no marketing background.
5350. **Product Development and Brand Management.** (3) S. A study of the process of product planning and development as related to venture management. Prerequisite: Marketing 3470.
5610. **Marketing Management.** (3) F. The techniques of management as applied to the functional areas of marketing. Both quantitative and behavioral tools are used. Prerequisite: Marketing 3470.
5650. **Promotion Management.** (3) S. A study of consumer behavior and demand stimulation with emphasis in verbal and non-verbal communication theory. Prerequisite: Marketing 3470.
5810. **Seminar in Marketing Thought.** (3) S. The development of marketing theory. The progress of the discipline of marketing toward becoming a science is examined. Past and present writings of marketing scholars are studied and reported. Prerequisite: Marketing 3470.
5900. **Business Research Methods.** (2) F. Business research methodology including the meanings of research, its sequential development, types, and the steps of the scientific method applied to business. Practical and academic applications are explored. Offered in Accountancy, Management, and Marketing. May be taken for credit in only one of the departments.
5950. **Thesis.** (3 to 6) The development of the method of attack and the execution of a formal research study in the area of marketing. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study.** (1 to 6) F, S. The study of a problem within the marketing business area in cooperation with an assigned instructor in a general or specific area of marketing. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

MATHEMATICS

In planning student programs it is important to check the course prerequisites including placement exam requirements as listed with the course descriptions below. "High school mathematics" as used here, includes high school courses in algebra, geometry, and trigonometry and modern courses which integrate these subjects; it does not include "general mathematics", "consumer mathematics", "shop mathematics", etc.

A tutoring service is available in the Department of Mathematics throughout the year for students who may need assistance in the undergraduate courses.

Courses in the Department of Mathematics are designed to serve the following purposes: (1) to contribute to the development of an informed citizenry; (2) to provide specific skills and knowledge of the discipline for those who plan to pursue careers in teaching mathematics or industry; and (3) to provide the background for graduate study.

For mathematics majors college-level work presupposes at least two years of algebra, one year of geometry, and one-half year of trigonometry in high school. Students without trigonometry will generally begin with Mathematics 1320, provided they have had at least one year of algebra and one year of geometry. However, such students are encouraged to take the Department of Mathematics placement test. Students with a background of three or more units of high school mathematics including trigonometry are required to take the Department of Mathematics placement test before enrolling in Mathematics 1320.

UNDERGRADUATE COURSES

- 1220. Numerals and Numbers I. (3-0-3)** A study of the real number system and related topics. Restricted to students in the curriculum for elementary school teachers. Placement by examination. Credit is not given for both Mathematics 1220 and 2220.
- 1250. Elementary Mathematics and Applications. (4-0-4)** Topics to be covered will include the metric system, mathematics of finance, elementary probability, the design and analysis of models, using descriptive statistics.
- 1290. Algebra. (5-0-5)** Fundamental concepts of algebra. Credit is not given for both Mathematics 1290 and 1300.
- 1300. Algebra. (3-0-3)** Concepts taught in Mathematics 1290 from a more advanced point of view. Credit is not given for both Mathematics 1290 and 1300. Prerequisite: Satisfactory score on placement exam.
- 1310. College Trigonometry. (2-0-2)** Basic concepts of right triangle trigonometry with applications. Prerequisite: Two years of high school mathematics.
- 1320. Elementary Functions and Analytic Geometry. (5-0-5)** Algebraic and transcendental functions and their graphs. Vectors in Euclidean Space, parametric and polar representations. Prerequisite: Satisfactory score on placement exam.
- 1340. Analytic Geometry. (3-0-3)** Coordinate systems, conic sections, polar and parametric forms. Credit is not given for students who have credit in Mathematics 1320. Prerequisite: Satisfactory score on placement exam.
- 2110. Mathematical Analysis. (3-0-3)** Polynomial calculus, including derivatives and integrals of algebraic functions, with applications. Prerequisites: Mathematics 1290 or 1300 or satisfactory placement score.
- 2120. Finite Mathematics. (3-0-3)** Elementary set theory, probability, and linear algebra. Applications to business and social science. Prerequisites: Mathematics 1290 or 1300 or satisfactory placement score.
- 2220. Numerals and Numbers II. (2-0-2)** A study of the real number system and related topics. Restricted to students in the curriculum for elementary or junior high school teachers. Placement by examination. Credit is not given for both Mathematics 2220 and 1220.
- 2310. Computer Programming. (2-2-3)** The application of procedure-oriented computer languages (FORTRAN, SNOBOL) to both numeric and non-numeric algorithms. Not open to freshmen.
- 2320. Introduction to Computer Programming. (1-0-1)** F. Computer programming in BASIC. Not open to students with credit for a college level course in computer programming.
- 2340. Analytic Geometry and Calculus. (3-0-3)** S. A review of analytic geometry. The calculus of polynomials with special emphasis on applications. Prerequisite: Mathematics 1320 or 1340. No credit for graduation if student has credit for Mathematics 2351 or its equivalent. Not open for students enrolled in a curriculum requiring Mathematics 2351.
- 2351, 2352, 2353. Calculus. (4-0-4; 4-0-4; 3-0-3)** The study of differential and integral calculus with applications, vector analysis, partial differentiation, multiple integration, and infinite series. Prerequisites: Mathematics 1320 or 1310 and 1340, or satisfactory score on the placement exam. To be taken in sequence.
- 2550. Matrix Algebra. (2-0-2)** The study of linear algebra with special emphasis on applications. Prerequisite: Mathematics 1300 or its equivalent.
- 2670. Computational Techniques. (2-0-2)** Computational models and problem solving, programming techniques. Prerequisite: Mathematics 2310.
- 3190. Algebra and Geometry I. (2-2-3)** The study, organization and structure of algebraic and geometric models. Restricted to students in the curriculum for elementary or junior high school teachers. Prerequisite: Mathematics 1220 or 2220 or by placement examination.
- 3200. Teaching Elementary Mathematics I. (1-2-2)** Methods and materials for teaching mathematics in the elementary school with a special emphasis on grades K-3. Open only to prospective elementary school teachers. Prerequisites: Mathematics 3190, Elementary Education 2320 or concurrently with Elementary Education 3240. Credit cannot be received for both 3200 and 3210.
- 3210. Teaching Elementary Mathematics II. (1-2-2)** Methods and materials for teaching mathematics in the elementary school with a special emphasis on grades 4-6. Open only to prospective elementary school teachers. Prerequisites: Mathematics 3190, Elementary Education 2320 or concurrently with Elementary Education 3240. Credit cannot be received for both 3200 and 3210.
- 3271, 3272. College Geometry. (3-0-3 each course)** The study of geometry including a review of elementary geometry, Euclidean, non-Euclidean, and transformational geometries. Prerequisite: Mathematics 2351. To be taken in sequence.
- 3400. Teaching Secondary Mathematics. (3-2-4)** Methods and materials for teaching mathematics in grades 7-12. Prerequisites: Educational Psychology 3320 and Mathematics 2352, 3271, 3531; or permission of the chairman of the department.
- 3501. Differential Equations I. (3-0-3)** F, S. Formal solutions of ordinary differential equations: a critical analysis of some elementary types; envelopes, trajectories, singular solutions, applications. Prerequisite: Mathematics 2353.
- 3502. Differential Equations II. (3-0-3)** S. Systems of differential equations, series solutions, approximations to solutions. Laplace Transformations, partial differential equations, boundary value problems. Prerequisite: Mathematics 3501.
- 3531, 3532. Abstract Algebra I and II. (4-0-4 each course)** An introduction to abstract algebra including: operations and relations, mappings, groups, rings, and fields. Linear algebra is emphasized in the second course. Prerequisite: Mathematics 2352. To be taken in sequence.
- 3570. Numerical Calculus. (3-0-3)** S. Construction of algorithms for interpolation, quadrature, solution of equations and systems, solution of ordinary differential equations. Prerequisites: Mathematics 2310 and 2353.
- 3670. Computers and Programming. (2-2-3)** F. Computer structure, data representation, in-

struction sets, semantics and syntax of assembly language programming, system macros, programmer macros, subroutines. Prerequisite: Mathematics 2310.

3701, 3702. Probability and Statistics I and II. (3-0-3 each course) Basic concepts of probability and statistics. Prerequisite: Mathematics 2352 to be taken in sequence. 3702 requires 2310 or 2320 or permission of the chairman of the department.

3770. Combinatorial Computing. (3-0-3) Enumeration and counting — generating functions and recurrence relations; graph theory — trees, circuits, cutsets, transport networks; computational aspects of combinatorics. Prerequisites: Mathematics 2310 and 3531.

4080. Internship in Computational Mathematics. (Arr.-Arr.-12) Employment experience in computational mathematics for one semester, in an approved firm or agency. Prerequisite: Permission of the Chairman of the Department of Mathematics and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4760. Linear Algebra. (3-0-3) S, Su. Vector spaces, linear transformations, and dual spaces, invariant direct sum decompositions, Jordan form, inner product spaces. Prerequisite: Mathematics 3532 or permission of the chairman of the department.

4780. An Introduction to Differential Geometry. (3-0-3) F, Su. The Euclidean space-functions, transformations, differential fields and forms, and the study of curves in Euclidean space. Prerequisite: Mathematics 2353.

4820. Algebra and Geometry II. (2-2-3) F, Su. The study of algebraic structure and informal geometry in elementary mathematics. Prerequisites: Enrollment in the curriculum for elementary teachers. Mathematics 3190; or permission of the chairman of the department.

4850. New Units in High School Mathematics. (3-0-3) S, Su. Investigation of basic mathematical concepts in selected new programs in high school mathematics. Prerequisites: Mathematics 2352, 2550, 3271, 3400, 3531; concurrent enrollment in Mathematics 3400 is permitted by permission of the instructor.

4861, 4862. Advanced Calculus. (3-3-3 each course) 4861 F, S.; 4862 S, Su. A study of limits of functions, continuity, the convergence of sequences and series of constants and functions, metric spaces, integration and measure. Prerequisite: Mathematics 2353 to be taken in sequence.

4900. History of Mathematics. (3-0-3) Su. The Ancient Orient. The period of Ancient Greece, The Hellenistic period. Seventeenth to Nineteenth Century A.D. The beginnings of Modern Mathematics. Prerequisite: Mathematics 2351 or permission of the chairman of the department.

4910. Number Theory. (3-0-3) Su. Divisibility, primes, congruences, solution of congruences, power residues, quadratic reciprocity, numerical functions, diophantine equations. Prerequisite: Mathematics 3531 or permission of the chairman of the department.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5040. Digital Computer Techniques. (3) F, Su. Programming techniques in the application of procedure-oriented languages to numeric and non-numeric algorithms. Not open to student with credit in Mathematics 2310 or its equivalent.

5050. Numerical Analysis. (4) S, Su. Rounding errors, difference equations, solutions of equations and systems of equations, interpolations, numerical differentiation. Prerequisites: Mathematics 2310 or 5040; and Mathematics 3500.

5080. Structure of Programming Languages. (3) S. The structure and syntax of ALGOL. Selected topics in computer science. Prerequisite: Mathematics 2310 or 5040 or permission of the chairman of the department.

5101, 5102. Abstract Algebra. (4 each course) 5101-F, 5102-S. Groups, Rings, Fields, Galois Theory. Prerequisite: Mathematics 3532 or permission of the chairman of the department. To be taken in sequence.

5151. Probability. (4) F. Elementary and general probability spaces. Random variables, multivariate distributions and the algebra of expectations. Prerequisite: Mathematics 3701.

5152. Statistics. (4) S. Random sampling, the law of large numbers, confidence intervals, regression, sampling from a normal population and testing hypotheses. Prerequisite: Mathematics 5151 or permission of the chairman of the department.

5200. Higher Geometry. (4) A selection of topics from transformation geometries. Prerequisite: Mathematics 3532 or permission of the chairman of the department.

5220. Topology. (4) F. Metric spaces. Topological spaces. Connectedness. Compactness. Prerequisite: Mathematics 4861 or permission of the chairman of the department.

5225. Topics in Geometry and Topology. (4) S. Topics selected from advanced areas in geometry and topology including homology theory; classical theory of curves and surfaces; non-Euclidean geometries. Prerequisite: Permission of the chairman of the department. May be repeated for credit.

5301, 5302. Real Variables. (4 each course) 5301-S, 5302-Su. Set theory. Cardinal numbers. Real numbers. Measure theory. Lebesgue theory. Prerequisite: Mathematics 4862 or permission of the chairman of the department. To be taken in sequence.

5330. Complex Variables. (4) Su. Complex numbers, analytic functions, conformal mappings, complex integrations. Prerequisite: Mathematics 4862 or permission of the chairman of the department.

5335. Topics in Analysis. (4) (Omitted 1974-75) Topics selected from advanced areas in analysis including the theory of functions of a complex variable, measure spaces, functional analysis. Prerequisite: Permission of the chairman of the department. May be repeated for credit.

5400. The Teaching of Mathematics in Grades K-6. (3) F, Su. The techniques, methods, and materials used in teaching the concepts and skills of arithmetic in grades K through six. Prerequisite: Enrollment in the curriculum for elementary teachers. Mathematics 4820 or permission of the chairman of the department.

5410. Problems in Teaching Mathematics in Grades 7-9. (3) S, Su. The techniques, methods, and materials used in teaching mathematics in grades seven, eight and nine. Prerequisite: Experience teaching in grades six through twelve or permission of the chairman of the department.

5530. Statistical and Computational Techniques. (3) Su. Statistical methods including tests of hypotheses. Computation techniques and computer programming using FORTRAN. Not open to students with a major in mathematics.

5700. Problems in Teaching Mathematics in Grades 10-12. (3) F, Su. Study of problems which arise in teaching secondary mathematics, research in mathematics education; assigned reading reports. Prerequisite: Experience teaching in grades six through twelve or permission of the chairman of the department. May be repeated once for credit.

5950. Thesis. (3 to 6) Note: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) Note: A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

MUSIC

AUDITIONS

All new undergraduate students planning to elect a major in music are required to demonstrate sufficient ability in a performing area either in person or by tape recording in advance of enrollment during the enrollment period. All transfer students should take the advisory-orientation examination in music theory. For advisement see the Chairman of the Department of Music. Auditions are also required for non-majors desiring the following courses: 0010-0070 and 5510-5570.

STUDIES IN PERFORMANCE AND COMPOSITION

In the major applied field, at least several years of study prior to college entrance are required. Private and class instruction are offered in all areas of performance, including composition (cf. listings). In the case of organ, prior study in piano is sufficient for acceptance.

Applied music courses yield variable credit, depending upon the curriculum elected by the student with a major in music. For the major in music education one semester hour of credit of secondary applied music shall be given for one hour of individual and/or class instruction per week and one-half hour of daily practice; for the primary applied in the music education curriculum two semester hours of credit shall be given for one hour of individual and/or class instruction per week and one hour of daily practice; or one semester hour of credit shall be given for one-half hour of individual and/or class instruction per week and one hour of daily practice. Generally students are expected to complete the minimum requirement over a period of seven semesters. For other majors in other Bachelor of Music degree curricula the student may register for up to four semester hours of credit for one hour of individual and/or class instruction and two hours of daily practice. Courses in composition are also similar in plan.

In a summer term the normal applied credit for a given program should be reduced by one-half, except cases where the normal applied credit is one semester hour. Additional applied credit in the summer term may be taken only with the permission of the principal applied instructor.

Courses in any applied subject may be repeated for additional credit; however, credit earned in excess of that required for the particular curriculum which the student is pursuing may not be used to satisfy the minimum applied music requirements of that program. Such credit shall be considered as elective.

The student's progress in his principal applied subject shall be evaluated each year by the faculty of the department in which he is enrolled. At the conclusion of the fourth semester of applied music, all students will be required to take a junior standing examination. A student may not be considered a junior in applied music nor may he present a junior or senior recital without passing this examination.

Course credit in applied music taken by music majors and minors beyond four semesters may be counted for upper division credit with the approval of the chairman of the department.

CREDIT ORGANIZATIONS IN MUSIC

Elementary education majors may elect a maximum of three semester hours of credit in choral ensembles. Other non-music majors may earn no more than four semester hours of credit toward graduation in chorus, orchestra, or band; however, music majors and minors may apply a maximum of six semester hours of credit toward graduation for such ensemble courses taken.

Courses in ensemble taken by music majors and minors beyond four semesters may be counted for upper division credit with the approval of the chairman of the department.

No more than two semester hours of credit may be earned in a single semester regardless of the number of organizations in which the student participates.

The music major is encouraged to participate in at least one ensemble during each semester of residence.

Cecilian Singers

Open to all qualified university women. Study and performance of all types of literature, from classic to popular.

Concert Band

The concert band functions as a musical unit for study and performances of all types of band literature. Membership is open to all students.

Concert Choir

A select ensemble of approximately 60 men and women. Open to all students. A wide variety of choral literature is performed.

Marching Band

The marching band performs during the football season for all home games and usually takes one out-of-town trip. Membership is open to all students.

Mixed Chorus

Open to all qualified singers. The Chorus studies and performs many types of choral literature. Some opportunity is provided for student conductors to improve their techniques with this ensemble.

Oratorio Chorus

One day a week the Concert Choir and Mixed Chorus form the nucleus of the Oratorio Chorus for the study and performance of cantatas, oratorios, Masses, and other major choral works.

Pep Bands

Three pep bands perform alternately at all home basketball games. Personnel are selected from the Symphonic Winds and Concert Band.

Stage Band

The stage band offers an opportunity to play the finest in stage band music. Rehearsals are held two evenings each week; various programs are performed throughout the year. Membership is open to all students. Audition is required.

String Orchestra

An organization for string players interested in the study and public performance of literature for the string orchestra. Membership is open to qualified players.

Symphony Orchestra

The orchestra is open to all student string, wind, and percussion players. Mature performers from within the university and community are eligible for membership. The orchestra presents regular programs on campus of representative works from symphonic literature. In addition, the orchestra participates in certain choral and operatic productions. Membership is selected by audition. Many instruments are available for use of the personnel.

Symphonic Winds

A select 40 piece wind ensemble organized for the study and performance of the highest quality band literature. Membership is selected by audition.

NON-CREDIT MUSICAL ORGANIZATIONS

Chamber Groups in Instrumental Music

Chamber groups of woodwinds, brasses and strings are organized to enrich the experience of players in the standard literature.

Chamber Singers

An ensemble of mixed voices for the study and performance of vocal chamber music dating from 1500 to the present. Audition required.

Collegium Musicum

A group organized for the purpose of reading, study, and performance of seldom-heard works. Vocal and instrumental forces, either separate or at times in combination, are employed.

RECITALS

All students except freshmen are required to appear (each year) in the series of student recitals in order to gain experience in musical performance.

Majors in the general music option and instrumental principals in the instrumental option must achieve junior standing in their principals applied area with a junior and senior recital being optional. Vocal and keyboard principals in the music education major are required to present junior and senior recitals.

Students with an option in performance in the Bachelor of Music degree program shall present a half recital in the junior year and a full recital in the senior year. Further, the performance major shall be required to perform a minimum of four times on student recitals in addition to presenting a junior and senior recital. The student recital requirement must be completed before the semester in which the senior recital is given. Students with a major in either Music Theory-Composition or Music History-Literature shall present appropriate projects in lieu of the junior and senior recitals.

MUSIC

UNDERGRADUATE COURSES

Auditions are required for initial placement in the following music courses: 0010-0070.

- 0010.* Voice. (Arr.-Arr.-1 or 2 or 4)
- 0020.* Flute. (Arr.-Arr.-1 or 2 or 4)
- 0021.* Oboe. (Arr.-Arr.-1 or 2 or 4)
- 0022.* Clarinet. (Arr.-Arr.-1 or 2 or 4)
- 0023.* Bassoon. (Arr.-Arr.-1 or 2 or 4)
- 0024.* Saxophone. (Arr.-Arr.-1 or 2 or 4)
- 0030.* Trumpet. (Arr.-Arr.-1 or 2 or 4)
- 0031.* Horn. (Arr.-Arr.-1 or 2 or 4)
- 0032.* Trombone. (Arr.-Arr.-1 or 2 or 4)
- 0033.* Baritone. (Arr.-Arr.-1 or 2 or 4)
- 0034.* Tuba. (Arr.-Arr.-1 or 2 or 4)

- 0040.* Percussion. (Arr.-Arr.-1 or 2 or 4)
- 0050.* Violin. (Arr.-Arr.-1 or 2 or 4)
- 0051.* Viola. (Arr.-Arr.-1 or 2 or 4)
- 0052.* Violoncello. (Arr.-Arr.-1 or 2 or 4)
- 0053.* String Bass. (Arr.-Arr.-1 or 2 or 4)
- 0060.* Piano. (Arr.-Arr.-1 or 2 or 4)
- 0061.* Organ. (Arr.-Arr.-1 or 2 or 4)
- 0062.* Harpsichord. (Arr.-Arr.-1 or 2 or 4)
- 0070.* Composition. (Arr.-Arr.-1 or 2 or 4)
- 0100. Ensemble, Band. (0-4-1) Music majors and minors may count 6 sem. hrs. toward graduation. Non-music majors may count 4 sem. hrs. toward graduation.

* May be repeated for credit until requirements are met. A student may receive one, two, or four semester hours of credit depending on the degree program, i.e., B.S. in Ed. Secondary applied-1 hr.; B.M.-Mus. Ed. option-1 or 2 hrs.; B.M.-performance option-4 hrs.

- 0110. Ensemble, Orchestra. (0-4-1) Music majors and minors may count 6 sem. hrs. toward graduation. Non-music majors may count 4 sem. hrs. toward graduation.
- 0120. Ensemble, Jazz. (0-4-1) Music majors and minors may count 6 sem. hrs. toward graduation. Non-music majors may count 4 sem. hrs. toward graduation. Prerequisite: Permission of instructor.
- 0300. Ensemble, Chorus. (0-4-1) Music majors and minors may count 6 sem. hrs. toward graduation. Non-music majors may count 4 sem. hrs. toward graduation.
- 0600. Chamber Ensemble. (Arr.-Arr.-1) The study and performance of ensemble literature for vocal, piano and instrumental groups. Prerequisite: Permission of the instructor.
- 1103. Recital. (No credit.)
- 1136. Class Instruction in Voice. (0-4-2) F, S. Beginning vocal instruction for all not assigned to studio lessons. (Audition not required.)
- 1137. Class Instruction in Voice. (0-4-1) Su. Beginning vocal instruction for all not assigned to studio lessons (audition not required). May be taken twice for credit. Students receiving A or B grades in the course may complete the vocal requirement by taking Music 2136.
- 1201. Beginning Class Instruction in Piano. (0-2-1) A course for students who have had no music reading experience. No audition necessary. May be repeated once for credit. Not open to music majors.
- 1203. Basic Functional Skills in Piano. (0-2-1) A course for music majors and minors who have had little or no previous piano study. No audition necessary.
- 1204. Basic Functional Skills in Piano. (0-2-1) Prerequisite: Music 1203 or placement by audition during enrollment.
- 1301. Class Instruction in Strings. (0-2-1) A study of beginning instrumental technique.
- 1302. Class Instruction in Clarinet, Flute and Saxophone. (0-2-1) A study of beginning instrumental technique.
- 1303. Class Instruction in Oboe and Bassoon. (0-2-1) A study of beginning instrumental technique.

- 1304. Class Instruction in Percussion. (0-2-1)** A study of beginning instrumental techniques.
- 1305. Class Instruction in Trumpet and French Horn. (0-2-1)** A study of beginning instrumental technique.
- 1306. Class Instruction in Trombone, Baritone and Tuba. (0-2-1)** A study of beginning instrumental technique.
- 1421. Basic Music for Classroom Teachers. (1-2-2)** A study of basic music theory. For elementary, junior high, and recreation majors.
- 1541, 1542. Music Theory and Literature. (3-0-3 each course)** F, S. The study of the fundamentals of music and melodic, harmonic and rhythmic materials and how they relate to musical structure; a study of selected examples from music literature is included. Must be taken in sequence.
- 1543, 1544. Aural Training in Music. (0-2-1 each course)** F, S. The study of notational practice and the development of aural perception through sight singing and dictation. Must be taken in sequence.
- 2136. Class Instruction in Voice. (0-2-1)** F, S. The second course of study for keyboard principles in the Vocal Option and others not qualified for private instruction. May be repeated three times. Prerequisite: Two hours credit in Music 1136 or Music 1137 with grades of A or B.
- 2141. Vocal Diction I. (1-1-1)** F. The study of vocal diction of English, Italian and Spanish song literature. Prerequisite: Two semesters of Applied Voice or equivalent.
- 2142. Vocal Diction II. (1-1-1)** S. The study of vocal diction of German and French song literature. Prerequisite: Two semesters of Applied Voice or equivalent.
- 2155. Choral Conducting. (2-0-2)** F. A course designed to make familiar the language and gestures for effective directing. Class serves as a laboratory chorus. Prerequisite: Music 1541, 1542; or two hours of Music 1136.
- 2201. Class Instruction in Piano. (0-2-1)** A course in recreational piano skills for students with previous piano study. May be repeated once for credit. Not open to music majors. Prerequisite: Two semesters of Music 1201 or placement by audition during enrollment.
- 2203. Functional Skills in Piano. (0-2-1)** A course for students with previous piano study. Prerequisite: Music 1204 or placement by audition during enrollment.
- 2204. Functional Skills in Piano. (0-2-1)** Prerequisite: Music 2203 or placement by audition during enrollment.
- 2205. Keyboard Harmony and Improvisation. (0-2-1)** F. This course develops functional skills in harmonization of melodies and develops harmonic awareness through figured-bass realization. Prerequisite: Music 1543 or permission of the chairman of the department.
- 2206. Sight-reading and Transposition. (0-2-1)** S. This course develops functional skills in transposition of music written in vocal style in forms one to four parts, and in pianistic idiom, and develops sight reading skills in keyboard accompaniments and choral score. Prerequisite: Music 1543 or permission of the head of the department.
- 2360. Instrumental Conducting. (1-1-1)** F, Su. An advanced study of baton technique and score reading for instrumental organizations. Prerequisite: Music 1543.
- 2421. Fundamentals of Music. (3-0-3)** F. Continuation of Music 1421. Prerequisite: Music 1421. Required of elementary majors with an Area I or II concentration in music.
- 2422. Music Literature for Elementary Teachers. (2-0-2)** S. Study of major forms and styles of Western Music suitable for use in the elementary general music program. Prerequisite: Music 1421 or equivalent. Required of elementary majors with an Area I or II concentration in music.

- 2440. Laboratory in Music Education. (1-0-1)** F, S. Directed observations and individualized experiences in participation in all kinds of music learning situations at all grade levels.
- 2541. Music Theory. (2-0-2)** F. A continuation of the study of musical materials and how they relate to musical structure. Prerequisite: Music 1542.
- 2543. Aural Training in Music. (0-2-1)** F. A continuation of the study of notational practice and the development of aural perception. Prerequisite: Music 1544.
- 2560. Structural Analysis in Music. (3-0-3)** F, S. A study of the relationship between structure and content in a variety of traditional forms and genres. Prerequisite: Music 2541.
- 2561. The Role of the Black in Western Music. (2-0-2)** F, S. A course emphasizing the Black man's contributions, including jazz and folk music in Western Civilization. May be applied toward the humanities requirement.
- 2562. Introduction to Music Literature. (2-0-2)** A course intended to develop intelligent and pleasurable listening abilities. A wide range of musical forms and periods is covered. Not open to music majors or minors.
- 2580. History and Literature of Music. (2-0-2)** F, S. Development of music from the baroque through the classic period. Open only to music majors and minors. Prerequisite: Music 1542.
- 3120. Music Theatre Workshop. (0-4-2)** F, S. Music theatre involving staging, acting, costuming and singing. May be taken four times for credit. Prerequisite: Permission of the instructor.
- 3155. Choral Techniques and Materials. (1-1-1)** S. A course designed to develop a knowledge of style rehearsal techniques and materials for various vocal ensemble combinations. Class serves as a laboratory chorus. Prerequisite: Music 2155.
- 3201. Accompanying. (Arr.-Arr.-1)** Vocal and Instrumental. Accompanying techniques combined with practical application. Prerequisite: Permission of instructor.
- 3221. Piano Pedagogy. (3-0-3)** F. The basic skills and knowledge needed in teaching group and private piano. Prerequisite: Two years of applied piano or permission of instructor.
- 3360. Instrumental Conducting. (2-0-2)** S. An advanced study of baton technique and score reading for instrumental organizations. Prerequisite: Music 2360.
- 3400. Methods of Teaching Music in Secondary Schools. (3-0-3)** F. Instrumental methods and materials appropriate for junior and senior high school. Prerequisite: Music 2440. For music majors and minors.
- 3421. Music in Elementary Schools. (3-0-3)** A study of the objectives, methods, and materials of music education in the elementary grades. Prerequisite: Music 1421. For elementary education majors.
- 3423. Music in Elementary Schools. (3-0-3)** A study of the objectives, methods, and materials of music education in the elementary grades. Prerequisite: Music 1421. For elementary education majors with early childhood emphasis.
- 3439. Methods of Teaching Music in Elementary Schools. (3-0-3)** F. Objectives, methods, and materials of music education in elementary grades. Prerequisites: Music 2440 and admission to teacher education. For music majors and minors.
- 3481. Music in the Allied Arts. (3-0-3)** S. A study of the aesthetic experience emphasizing music, and its relationship to the arts. Open only to music majors and minors. Prerequisite: One course in philosophy and two courses in each of the following areas: art history and appreciation; English literature; history; music history and literature; and music theory.
- 3547. Orchestration. (3-0-3)** F, Su. Beginning practical experience in scoring for orchestra.

3561. **History and Literature of Music. (3-0-3) F.** The development of music from the ancient times through the baroque. Not open to music majors or minors.
3562. **History and Literature of Music. (3-0-3) Su, S.** The development of music from the classical period to the present. Not open to music majors or minors.
3563. **Music in World Cultures: Western Folk and Traditional Music. (2-0-2) F.** A survey which includes African music south of the Sahara. May be applied toward the humanities requirement.
3564. **Music in World Cultures: Near Eastern, Asian and Pacific. (2-0-2) S.** A survey of non-Western music cultures. May be applied toward the humanities requirement.
3571. **History and Literature of Music (2-0-2) Su, F.** Development of music from ancient times through the Renaissance. Open only to music majors and minors. Prerequisite: Music 2580.
3572. **History and Literature of Music. (2-0-2) S.** Development of music from the romantic period to the present. Open only to music majors and minors. Prerequisite: Music 2580.
4541. **Sixteenth Century Counterpoint. (2-0-2) F.** A basic study of techniques in polyphonic literature. Includes the styles of Palestrina and the English Madrigalists. Prerequisite: Music 2541.
4542. **Eighteenth Century Counterpoint. (2-0-2) S.** A basic study of contrapuntal harmonic practices, including inventions, canon, fugue, and forms based upon the chorale. Prerequisite: Music 2541.
4600. **Independent Study. (Arr.-Arr.-1 to 3)** Independent pursuit of a study or research project. Outline of student's plan of work must be submitted to Chairman, Department of Music, for approval and instructor assignment. The course may be repeated to a maximum of six semester hours.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **Choral Arranging. (3-0-3) S.** A practical approach to developing skill in scoring and arranging for various vocal ensemble combinations. Prerequisite: Three semesters of music theory.
4760. **Vocal Pedagogy. (3-0-3) Alternate F.** beginning 1974. Writings of recognized authorities on the teaching of singing, coupled with observation and supervised teaching. Prerequisite: Four semesters of instruction in singing.
4770. **English, Italian, and Spanish Song Literature. (2-0-2) Alternate F.** beginning 1973. The study of English, Italian, and Spanish Song Literature. Prerequisite: Music 2141 or permission of the instructor.
4780. **French and German Song Literature. (2-0-2) Alternate S.** beginning 1973. The study of French and German Song Literature. Prerequisite: Music 2141 and 2142 or permission of the instructor.
4810. **Symphonic Literature. (3-0-3) (Omitted 1974-75)** A survey of orchestral music from the Mannheim and Viennese schools through the Twentieth Century. Prerequisites: Music 3571 and Music 3572.
4820. **Music in the Classic Era. (3-0-3) F.** A critical appraisal of music of the period, emphasizing distinctively classical features. Prerequisite: Music 3571 or 3572.
4830. **Music in the Romantic Era. (3-0-3) S.** A critical appraisal of music of the period, emphasizing distinctively romantic features. Prerequisites: Music 3571 and 3572.
4840. **Band Arranging. (3-0-3) S, Su.** A course in scoring and arranging materials for instrumental ensembles.

4850. **Stage Band Arranging. (3-0-3) S.** A course dealing with the basic problems and techniques involved in arranging for a stage band. Prerequisite: Music 2543 or equivalent.
4860. **Marching Band Procedure. (2-0-2) F.** Rudiments of marching band pageantry, and field maneuvers.
4870. **Administration of Instrumental Organizations. (2-0-2) S, Su.** A study of administrative problems which apply particularly to the instrumental teacher.
4872. **Advanced Orchestration. (3-0-3) F.** Advanced studies in orchestral scoring and arranging.
4880. **Techniques for Developing and Training Stage and Dance Bands in the High School. (2-0-2) F.** A course dealing with basic problems in organization, development, and training of the high school stage and dance band. Prerequisites: Music 1302, 1305, or permission of the instructor.
4900. **Church Music. (2-0-2) S.** A historical review of hymnody, psalmody, and choral and keyboard literature in relation to current worship practices.
- 4910 (5400). **Keyboard Literature of the Baroque and Classic Eras. (3) F.** A study of the literature of the stringed keyboard instruments from the virginalists through the Eighteenth Century.
- 4920 (5410). **Keyboard Literature from the 1800's to the Present. (3) S.** A study of piano literature of selected Nineteenth and Twentieth Century composers.
4960. **Seminar in the Problems of Music Education. (Arr.-Arr.-1 to 3) Su.** Special problems in music education planned on an individual basis.
4990. **Workshop in Music. (Arr.-Arr.-1 to 3) Su.** Literature techniques, pedagogy, and/or style in various media. Content may vary from summer to summer. Provided a student does not repeat courses with same content, he may earn a maximum of four semester hours credit.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5160. **Advanced Conducting and Performance Practices. (3) S, Su.** A study of style (in instrumental and vocal ensemble music) as it pertains to problems of the conductor. Prerequisite: Music 3155 or 3360.
5170. **Analytical Techniques. (3) F.** An investigation of structure, stylistic characteristics and compositional techniques. Prerequisite: Music 2560.
5200. **Teaching Music Theory. (2) S.** Principles, techniques, content and materials for teaching music theory courses in the freshman and sophomore years of college.
5280. **Aesthetics of Music. (3) (Omitted 1974-75)** A study of man's search for musical beauty: changing conceptions of beauty through various historical periods.
5360. **Opera History and Literature. (3) Alternate S.** beginning 1973. A study of selected operas from 1600 to the present. Prerequisite: Music 3571 and 3572.
5450. **Instrumental Pedagogy. (3) S, Su.** An advanced course designed to strengthen the knowledge, methods and techniques of the wind, string, and percussion instruments.

Auditions are required for initial placement in the following music courses: 5510-5570.

5510. **Voice. (Arr.-Arr.-1 or 2)**

5520. Flute. (Arr.-Arr.-1 or 2)
5521. Oboe. (Arr.-Arr.-1 or 2)
5522. Clarinet. (Arr.-Arr.-1 or 2)
5523. Bassoon. (Arr.-Arr.-1 or 2)
5524. Saxophone. (Arr.-Arr.-1 or 2)
5530. Trumpet. (Arr.-Arr.-1 or 2)
5531. Horn. (Arr.-Arr.-1 or 2)
5532. Trombone. (Arr.-Arr.-1 or 2)
5533. Baritone. (Arr.-Arr.-1 or 2)
5534. Tuba. (Arr.-Arr.-1 or 2)
5540. Percussion. (Arr.-Arr.-1 or 2)
5550. Violin. (Arr.-Arr.-1 or 2)
5551. Viola. (Arr.-Arr.-1 or 2)
5552. Violoncello. (Arr.-Arr.-1 or 2)
5553. String Bass. (Arr.-Arr.-1 or 2)
5560. Piano. (Arr.-Arr.-1 or 2)
5561. Organ. (Arr.-Arr.-1 or 2)
5562. Harpsichord. (Arr.-Arr.-1 or 2)
5570. Composition. (Arr.-Arr.-1 or 2)
- 5621, 5622. Foundations and Principles of Music Education. (3 each course) 5621-F; 5622-S. Systematic treatment of the total music education program. Need not be taken in sequence.
- 5721, 5722. Class Piano Pedagogy and Internship. (3 each course) 5721-F; 5722-S. A study of the mechanics and purposes of group piano teaching supplemented by observation and practice teaching in college classes. Prerequisite: Music 3221 or permission of the instructor.
5810. Music of the Twentieth Century. (3) (Omitted 1974-75) The chief musical developments in Western Europe and the Americas from 1900 to the present.
5840. Music in the Renaissance Era. (3) (Omitted 1974-75) A critical appraisal of music of the period, emphasizing distinctively Renaissance features.
5850. Music in the Baroque Era. (3) (Omitted 1974-75) A critical appraisal of the period, emphasizing distinctively Baroque features.
5880. Seminar in Music History. (3) Su, S. Intensive study of selected historical topics.
5900. Introduction to Research in Music. (2) F. An introduction to the various aspects of the musical discipline, intended to enable the student to think, research, and write intelligently about his field.
5950. Thesis. (3 to 6) *Note:* Maximum credit allowed in each course is six semester hours. A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. Independent Study. (1 to 6) Student must submit outline of his plan of work to the Chairman of the Department of Music for approval and assignment to an instructor. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950. Maximum credit allowed in each course is six semester hours.

PHILOSOPHY

Note: Philosophy 1800, Philosophy 1830 or Philosophy 3000 is recommended as the most appropriate choice for students who elect a single course in Philosophy. As introductory treatments of the techniques and issues of philosophic inquiry, Philosophy 1800 focuses attention on representative problems without reference to historical perspective, whereas Philosophy 1830 explores a range of problems in an historical context. While both these courses deal mainly with the traditional problems of philosophy, Philosophy 3000 examines various contemporary ideas and issues in a philosophical perspective. If a student anticipates the election of more than one of the history courses, it would be advisable to schedule them in the order of their historical sequence.

Note also that all philosophy courses numbered below 4000 count toward satisfying the Humanities Requirement.

UNDERGRADUATE COURSES

1800. Problems of Philosophy. (3-0-3) An introduction to philosophic inquiry through analysis of selected problems: Knowledge, Value, Religion, and Alternative World Views.
1830. (2810). History of Philosophy: Ancient. (3-0-3) An introductory historical approach to the nature of Man, God, the World, and Value: the pre-Socratics, Plato, and Aristotle.
1900. Logic. (3-0-3) An introduction to the principles of sound reasoning: logic and language, deductive and formal logic, empirical scientific methodology.
2850. History of Philosophy: Medieval. (3-0-3) F. An examination of the principal philosophers from Epicurus through St. Thomas Aquinas. Prerequisite: Philosophy 1800 or 1830.
2860. History of Philosophy: Modern. (3-0-3) S. Philosophic thought from Galileo to Kant; the foundations of modern science and implications for religious, moral, and political theory. Prerequisite: Philosophy 1800 or 1830.
2900. Symbolic Logic. (3-0-3) F. An examination of the special symbols and structures of symbolic logic: truth functions, quantification, the logic of relations, and the class calculus. Prerequisite: Philosophy 1900 or permission of the instructor.
3000. Philosophy and Current Issues. (3-0-3) Philosophical examination of some important contemporary ideas and current issues of life and society. Topics such as Man, Love, Nature, Science, Alienation, Justice, Revolution, War, and Peace.
3020. Ethics. (3-0-3) S. Analysis and evaluation of principle theories and problems concerning Right, Good and validity of moral standards and moral conduct.
3040. Aesthetics. (3-0-3) F. A critical examination of aesthetic experience and fine art: artistic creativity, the work of art, and criteria of judgment. Prerequisite: Philosophy 1800 or Philosophy 1830 or permission of the instructor.
3100. Nineteenth Century Philosophy. (3-0-3) F. A study of the principal philosophers of the Nineteenth Century such as Hegel, Nietzsche, Kierkegaard, Mill and Marx. Prerequisite: Philosophy 1800 or 1830.
3150. American Philosophy. (3-0-3) F. An examination of the principal American philosophers from Jonathan Edwards to Dewey and Whitehead. Prerequisite: Six semester hours in philosophy or permission of the instructor.
3300. Social and Political Philosophy. (3-0-3) S. A philosophical examination of man in society, the foundations of social and political institutions, and the nature of political obligation. Prerequisite: Six semester hours in philosophy or permission of the instructor.
3800. Contemporary Philosophy. (3-0-3) S. A study of some main Twentieth Century developments such as Existentialism, Phenomenology, Pragmatism, Positivism, and Analytic Philosophy. Prerequisite: Six semester hours in philosophy or permission of the instructor.

4100. **Philosophy of Religion. (3-0-3) F.** A philosophical interpretation of religion, religious experience, and fundamental problems: God, evil, immortality, religious knowledge. Prerequisite: Six semester hours in philosophy, including Philosophy 1800 or permission of the instructor.
4150. **Philosophy of History. (3-0-3) S.** A critical analysis and evaluation of theories proposed by philosophers in their attempts to specify the nature of history and historical inquiry. Prerequisite: Six semester hours in philosophy, including Philosophy 1800 and Philosophy 1830 or 2860 or permission of the instructor.
4200. **Philosophy of Science. (3-0-3) F.** An analysis of the key assumptions and implications of modern science: form, hypothesis, verification, casualty, law, and methodology. Prerequisite: Six semester hours in philosophy (Philosophy 1900 or 2860 recommended) or permission of the instructor.
4300. **Philosophy and Culture: Western. (3-0-3) F.** An analysis of the basic scientific, religious, and philosophical assumptions of Western civilization and its principal culture. Prerequisite: At least six semester hours in philosophy or permission of the instructor.
4310. **Philosophy and Culture: Eastern. (3-0-3) S.** An analysis of the basic philosophical and religious assumptions of Eastern civilization: India, China, and Japan. Prerequisite: Philosophy 4300 or permission of the instructor.
4480. **Seminar. (3-0-3) S.** Advanced study of selected problems, topics, or philosophers. Prerequisite: Nine semester hours in philosophy and permission of the instructor. May be taken twice for credit with permission of the chairman of the department.

PHYSICAL EDUCATION

Non-physical education majors may elect four semester hours of physical education service course credit toward graduation. Physical education majors and minors and recreation majors may have six semester hours of credit in physical education service courses. Physical education and recreation majors do not have the Pass-Fail option for one-semester-hour activity courses.

SERVICE COURSES

0010. **Athletic Training. (5-0-1)** A practical experience for students in athletic first aid, rehabilitation, and safety. Prerequisite: Permission of the instructor.
0020. **Baseball (Intercollegiate Team Participation). (5-0-1) S.**
0030. **Basketball (Intercollegiate Team Participation). (5-0-1) S.**
0050. **Soccer (Intercollegiate Team Participation). (5-0-1) F.**
0090. **Football (Intercollegiate Team Participation). (5-0-1) F.**
0120. **Golf (Intercollegiate Team Participation). (5-0-1) S.**
0130. **Gymnastics (Intercollegiate Team Participation). (5-0-1) S.**
0140. **Tennis (Intercollegiate Team Participation). (5-0-1) S.**
0150. **Wrestling (Intercollegiate Team Participation). (5-0-1) S.**
0160. **Cross Country and Track (Intercollegiate Team Participation) (5-0-1) F, S.**
0180. **Swimming (Intercollegiate Team Participation). (5-0-1) S.**
1000. **Physical Development. (0-2-1) F, S.**

1030. **Basketball. (0-2-1)** Open to men only.
1050. **Soccer. (0-2-1) F.** Open to men only.
- 1060 (M 1060; W 1750). **Softball. (0-2-1) S, Su.**
1070. **Touch Football. (0-2-1) F.** Open to men only.
- 1400 (M 1400; W 1860). **Swimming (Beginning). (0-2-1)** For beginning swimmers only. Persons able to swim 45 feet should enroll in Physical Education 1410. Sections open to men only, women only, and coeducational.
- 1410 (M 1410; W 2860). **Swimming (Intermediate). (0-2-1)**
1420. **Senior Life Saving. (0-2-1)** Prerequisite: Physical Education 1410 or demonstrate level of ability by passing a pre-test.
1430. **Competitive Swimming and Diving. (0-2-1) F.** Prerequisite: Physical Education 1410 or demonstrate level of ability by passing a pre-test.
1440. **Scuba and Snorkel Diving. (0-2-1)** Prerequisite: Physical Education 1410 or demonstrate level of ability by passing a pre-test.
1450. **Water Polo. (0-2-1) F, S.** Open to men only. Prerequisite: Physical Education 1410 or demonstrate level of ability by passing a pre-test.
1460. **Water Safety Instruction. (0-2-1)** Prerequisite: A student must have passed Physical Education 1420 or have a recently-earned Senior Life Saving Certificate issued by the American Red Cross.
- 1470 (W 3860). **Swimming (Synchronized). (0-2-1) F, S.**
- 1480 (M 1670). **Canoeing. (0-2-1)** Prerequisite: Demonstrate level of ability by passing a pre-test.
1600. **Weight Training. (0-2-1)**
- 1610 (M 1100; W 1800). **Archery. (0-2-1)**
- 1620 (M 1020) **Orienteering. (0-2-1)**
- 1630 (M 1180). **Casting and Angling. (0-2-1) S, Su.**
1640. **Rifle and Pistol. (0-2-1)**
1650. **Trap and Skeet. (0-2-1) Fee.**
- 1660 (M 1190; W 1820). **Bowling. (0-2-1) Fee.**
- 1670 (M 1120; W 1830). **Golf. (0-2-1)**
- 1680 (M 1170; W 1850). **Stunts and Tumbling. (0-2-1) F, S.**
- 1681 (M 1130; W 1890). **Gymnastics Apparatus. (0-2-1) F, S.**
- 1690 (M 1160; W 1940). **Track and Field. (0-2-1) S, Su.** Required of all PEW majors.
1720. **Basketball. (0-2-1) F, S.** Open to women only.
1730. **Field Hockey. (0-2-1) F.** Open to women only.
1740. **Soccer. (0-2-1) F.** Open to women only.
1760. **Speedball. (0-2-1) F.** Open to women only.
- 1770 (M 1080; W 1770). **Volleyball. (0-2-1)** Sections open to men only, women only, coeducational.
- 1810 (M 1110; W 1810). **Badminton. (0-2-1)**

- 1820 (M 1620). Handball. (0-2-1)
- 1840 (M 1150). Wrestling. (0-2-1) F, S. Open to men only.
- 1870 (M 1140; W 1870). Tennis. (0-2-1)
- 1880 (M 1660; W 1880). Fencing. (0-2-1)
1900. Folk Dance. (0-2-1)
1910. Modern Dance. (0-2-1)
1920. Ballroom Dance. (0-2-1)
1930. Square Dance. (0-2-1)
2610. Archery (Advanced). (0-2-1)
- 2660 (M 1790). Bowling (Advanced). (0-2-1) Fee.
- 2670 (M 1720; W 2830). Golf (Advanced). (0-2-1)
- 2810 (M 1710; W 2810). Badminton (Advanced). (0-2-1)
- 2870 (M 1740) W 2870). Tennis (Advanced). (0-2-1)
2900. Folk Dance (Advanced). (0-2-1)
2910. Modern Dance (Advanced). (0-2-1)
2920. Ballroom Dance (Advanced). (0-2-1)
2930. Square Dance (Advanced). (0-2-1)

NON-CREDIT INTERCOLLEGIATE SPORTS

0330. Early Basketball. (5-0-0) F.
0430. Early Gymnastics. (5-0-0) F.
0530. Early Wrestling. (5-0-0) F.
0630. Early Swimming. (5-0-0) F.
0730. Fall Golf. (5-0-0) F.
0830. Fall Baseball. (5-0-0) F.
0990. Spring Football. (5-0-0) S.

UNDERGRADUATE PROFESSIONAL COURSES

- 1500 (M 1500; W 1510). Physical Education as a Profession. (2-0-2) An introductory professional course which includes the general scope, purpose, history, growth and development, and career assessment of physical education.
1520. Theory of Motor Learning. (2-0-2) S, Su. A study of the learning process with emphasis on learning of motor skills and recent research in motor learning.
1530. Basic Activities in Physical Education. (2-2-3) Games, basic exercises, rhythms, movement education and elementary tumbling, vaulting and trampolining. For the elementary and secondary levels.

2000. Technique and Practice of Teaching Physical Education Activities. (2-2-3) To learn techniques of teaching selected individual and team activities and to observe and participate in a practical teaching situation. Prerequisite: Sophomore standing and two semester hours of physical education activities at the 1000 level.
2220. Technique and Theory of Folk, Square, and Ballroom Dance I. (0-4-2) Basic techniques and skills in folk, square and ballroom dance.
2230. Technique and Theory of Modern Dance I. (0-4-2) May be used as partial fulfillment of the humanities requirement. A course which introduces, explores and applies the concept of movement as expression.
2240. Theory and Composition of Modern Dance. (0-4-2) May be used as partial fulfillment of the humanities requirement. A course which includes creative exploration of movement incorporating floor patterns, non-locomotor and locomotor movement, and elementary rhythmic principles. Prerequisite: Physical Education 2230.
2320. Technique and Analysis of Stunts, Tumbling and Gymnastics. (0-4-2) Participation in various phases of women's gymnastics and emphasis on analyses and uses of activities in teaching and recreation.
2370. Technique and Officiating Speedball, Field Hockey and Volleyball. (0-4-2) The development of basic game skills, strategies and officiating techniques in speedball, field hockey and volleyball.
2380. Technique and Officiating Basketball and Flag Football. (0-4-2) Su, S. The development of basic game skills, strategies and officiating techniques in basketball and flag football.
2410. Physical Education for Today's Elementary Children. (3-0-3) An introductory course in elementary school physical education.
2440. Kinesiology. (4-0-4) The study of basic human anatomy, muscle actions, and laws of physics as used in the performance of sport skills.
2450. Physical Education for Exceptional Individuals. (2-0-2) An introduction to various conditions and activity programs suitable to the needs of exceptional individuals. Prerequisite: Physical Education 2440.
- 3130 (M 4330). Basic Care and Prevention of Athletic Injuries. (3-0-3) Primary causes of injuries; analysis of preventive measures; care of injuries in relation to type of tissue involved.
3200. Methods of Teaching Dance. (3-0-3) Materials and methods for teaching modern, folk, square and ballroom dance. Prerequisites: Physical Education 2220 and 2230.
3220. Technique and Theory of Folk, Square and Ballroom Dance II. (0-4-2) F, Su. A course which presents advanced techniques and skills in folk, square, and ballroom dance. Prerequisite: Physical Education 2220.
- 3230 (W 3230 and 3240). Techniques and Theory of Modern Dance III. (0-4-2) F. A course which places emphasis on intermediate and advanced dance techniques, problem-solving, improvisation and the application of the kinesthetic sense. Prerequisites: Physical Education 2230 and 2240.
- 3250 (W 3250 and 3260). Dance Composition/Production Workshop. (2-2-3) S. The course acquaints students with elements of dance, its theatre, application and composition. The advanced student has opportunity to create works for performance and evaluation. Prerequisites: Physical Education 2230, 2240 or permission of the instructor.
3270. History and Philosophy of Dance. (3-0-3) F. May be used as partial fulfillment of the humanities requirement. A survey of the history of dance from early civilization to present; dance in education, and the philosophic goals of dance.
3320. Technique, Theory and Coaching of Gymnastics. (0-4-2) F. This course includes advanced skill development, teaching methods, unit planning, competition and values of gymnastics. Prerequisite: Physical Education 2320.

3330. **Techniques, Theory and Coaching of Badminton and Tennis. (0-4-2) S.** A study of analyses of skills and the methods of teaching badminton and tennis. Prerequisites: Physical Education 1810 and 1870.
3340. **Technique, Theory and Coaching Track and Field and Golf. (2-2-3) F.** This course includes further development of performance skills in golf and track and field, teaching methods specific to the sports activities and analysis of movement skills related to the sports. Prerequisites: Physical Education 1670 and 1690.
3350. **Technique and Theory of Aquatics. (0-4-2) S.** A survey of aquatic activities. Emphasis will be placed on mechanical principles of swimming and diving, and methods of teaching aquatic activities. Prerequisite: Equivalency of Junior Life Saving or recommendation of instructor.
3370. **Technique, Theory and Coaching Field Hockey and Basketball. (2-2-3)** Provides for the understanding of advanced techniques, skill analyses and progressions as applied to field hockey and basketball with further skill development in these areas. Prerequisites: Physical Education 2370, 2380.
3380. **Technique, Theory and Coaching Softball and Volleyball. (2-2-3) S, Su.** Provides for the understanding of advanced techniques, skill analyses and progressions as applied to softball and volleyball with further skill development in these areas. Prerequisite: Physical Education 2370.
3390. **Planning and Conducting Co-Curricular Programs in Physical Education (2-0-2)** This course will investigate all aspects of the extracurricular physical education program.
3400. **Methods of Teaching Physical Education. (3-0-3)** Organization of health and physical education activities for various age levels, and methods of teaching health and physical education.
3401. **Methods of Teaching Sports. (3-0-3)** A general overview of the techniques of the organization and presentation of sports in the physical education program. Prerequisite: Physical Education 1520; previous experience in team and individual sports is recommended.
3470. **Basketball Coaching. (2-2-3)** Offensive and defensive styles of play; fundamentals; individual and team play; rules and strategy; conduct of tournament play.
3480. **Football Coaching. (2-2-3)** Fundamentals of football including blocking, tackling, passing, kicking, offensive and defensive line and backfield play; conditioning; rules and strategy.
3490. **Track and Field Coaching. (2-2-3) S, Su.** Fundamentals of track and field events. Organization of track meets. Study of rules and strategy.
3500. **Baseball Coaching. (2-2-3)** Fundamentals of batting; fielding; playing various positions. Rules, strategy; play situations.
- 3550 (M 3600). **Wrestling Coaching. (2-2-3) F.** Theory and application of wrestling maneuvers; rules; conditioning and training.
3580. **Gymnastics Coaching. (2-2-3) S.** Fundamentals of heavy apparatus; rings, trampoline; free exercise; rules.
3600. **Introduction to Elementary School Physical Education. (0-4-2)** Physical education as it relates to the total education of the elementary school child with emphasis on the developmental approach.
3610. **Game Activities for Elementary Schools. (3-0-3) F, Su.** Body mechanics and games; emphasis is on the analysis of and practice in such basic skills as throwing, catching, dodging, striking an object. Prerequisite: Physical Education 1530 or 2410 or 3600.
3620. **Rhythmical Activities for Elementary Schools. (3-0-3)** Dance and creative rhythms; emphasis is on basic locomotor and axial skills in movement as well as the specific skills in folk and square dance. Prerequisite: Physical Education 1530 or 2410 or 3600.

3630. **Tumbling and Apparatus Activities for Elementary Schools. (3-0-3)** A study of tumbling and apparatus in the elementary school curriculum. Spotting techniques in mat and apparatus work is stressed. Prerequisite: Physical Education 1530 or 2410 or 3600.
- 3640 (W 3430). **Elementary School Physical Education Practicum. (1-4-3)** An overview of the total programs in the elementary school. Prerequisites: Physical Education 3620 and 3630.
3700. **Psychological Foundations of Coaching. (2-0-2)** The course is designed to provide the prospective athletic coach with an understanding of the principles of psychology as they apply to coaching. Prerequisite: Psychology 2310.
3960. **Aesthetics of the Dance. (3-0-3) S.** A study of dance as a created, performed, and perceived art with discussion of aesthetic principles as related to dance as an art experience. It may be used as partial fulfillment of the humanities requirement.
- 4310 (M 4310; W 4100). **History and Principles of Physical Education. (3-0-3)**
- 4320 (M 4320; W 4110 and 4130). **Organization, Administration and Supervision of Physical Education. (3-0-3)**
4340. **Physiological Foundations of Coaching. (2-0-2)** The course is designed to provide the prospective athletic coach with an understanding of the physiological factors that affect human performance.
- 4741, 4742, 4743. **Independent Study. (Arr.-Arr.-Arr.-1, 2, 3 respectively)** *Note:* May be repeated; the maximum amount of credit which may be earned is six semester hours.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **Measurement and Evaluation in Physical Education. (3-0-3)** Selection and administration of physical measurements and written tests commonly used in physical education.
- 4770 (5400). **Advanced Techniques of Athletic Training. (1-0-1) Su, S.** A course concerned with current trends in initiating, organizing, and conducting training programs.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5100. **Supervision of Physical Education. (3) S.** Techniques of supervision; in-service training of classroom and physical education teachers; the relationships with teachers, administrators and the community.
5120. **Application of Psychology to Physical Education. (2) S.** A study of psychological principles, laws of learning, and their application to physical education.
5140. **Current Trends in the Teaching of Physical Education in the Elementary and Junior High School. (3) Su.** Materials, organization and program of physical education. Integration of physical education with general education.
5141. **Movement Experiences for the Child. (2)** Presents the teacher with an opportunity to increase teaching skills, understanding and awareness of the importance of basic movement as a foundation for body control that will help the child later in life.
5150. **Physical Education-An Aesthetic Approach. (2) Su.** Study of physical education in relation to certain of the arts and its philosophical and historical evolution and development as related to various cultures.

5190. **Growth and Development Through Physical Education.** (2) F. Survey of growth and development of children and adolescents as these relate to curriculum planning for physical education.
5200. **Course of Study Development in Physical Education.** (3) S. Principles and methods; different psychological and educational points of view; organizing a course of study, making units of instruction.
5210. **Administration of Interschool Athletics.** (2) S. Organization and control of interschool athletics at the national, state, and local levels. Staff; programs, budget; health and safety; facilities.
5230. **Physiology of Exercise.** (4) S. A study of the immediate and long range effects of muscular activity upon the respiratory, circulatory, and muscular systems. Prerequisite: Zoology 3000 or equivalent.
5240. **Physical Education for the Atypical Individual.** (2) Su. Survey of human physical disabilities combined with adaptive and rehabilitative measures to promote better living for the individual.
5280. **The Organization and Administration of Community Recreation.** (2) S. Trends in recreation on federal, state, and local levels. Legislative provisions; governmental control; financing; personnel; departmental organization, and administrative procedures. Not open to students with credit in Recreation 4830.
5300. **Advanced Administration of Physical Education in Schools.** (2) F, Su. Liability; construction of facilities; purchase and care of athletic equipment; budget and finance; evaluative procedures; general administrative control.
5410. **Advanced Coaching of Baseball.** (1) Su. Concerned with current trends in the specific areas of interschool baseball programs. A detailed study of new techniques and equipment used in the coaching of baseball.
5420. **Advanced Coaching of Basketball.** (1) Su. Concerned with current trends in the specific areas of interschool basketball programs. A detailed study of new techniques and equipment used in the coaching of basketball.
5430. **Advanced Coaching of Football.** (1) Su. Concerned with current trends in the specific areas of interschool football programs. A detailed study of new techniques and equipment used in the coaching of football.
5440. **Advanced Coaching of Track and Field.** (1) Su. Concerned with current trends in the specific areas of interschool track and field programs. A detailed study of new techniques and equipment used in the coaching of track and field.
5570. **Analysis of Human Motion.** (3) F. Study of mechanical principles as they relate to body movement, and of body structure and function as they relate to human motion. Prerequisite: Physical Education Men 2440.
5600. **Advanced Theory and Analysis of Team Sports.** (2) Su. Study of techniques, organization and team strategy of selected team sports as they relate to the learner in the physical education program. Prerequisite: Proficiency in the selected sports.
5610. **Advanced Theory and Analysis of Individual Sports.** (2) Su. Study of techniques, organization and game strategy selected in individual sports as they relate to the learner in the physical education program. Prerequisite: Proficiency in the selected sports.
5613. **Women's Gymnastics for Teachers.** (2)
5621. **Modern Jazz Dance.** (2) Basic skills and techniques in modern jazz dance.
5622. **International Folk Dance.** (2) Presents the graduate student with an opportunity to increase skills and techniques in folk and square dance.
5630. **Philosophy of Physical Education.** (3) Su. Study of principles of physical education with application to current problems in the field.

5700. **Experimental Laboratory Research in Physical Education.** (4) F. Techniques and procedures employed in obtaining anthropometric, metabolic, cardiorespiratory and other physiological data in laboratory and field environments.
5710. **Sociological Bases of Sport in America.** (3) F. (Alternate odd years) The role of sport in American culture. Influence of basic social units, fundamental social processes and social values on sport in America.
5730. **The Nature and Bases of Motor Behavior.** (3) S. A study of the factors influencing human movement and skill learning. Emphasis is placed upon the input-output aspects of motor skill performance.
5800. **Analytical Readings in Health, Physical Education and Recreation.** (3) F. (Alternate even years) Assigned readings in professional publications for education and health and physical education articles.
5900. **Introduction to Graduate Study in Physical Education.** (4) F, Su. A critical review and evaluation of selected studies in physical education and related fields, including an overview of statistical procedures and an in-depth exposure to various types of research.
5950. **Thesis.** (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study.** (1 to 6) Individual pursuit of study selected by the student. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

PHYSICAL SCIENCE

UNDERGRADUATE COURSES

1000. **Physics for Elementary and Junior High.** (1-2-2) Basic concepts of physics are presented through the study of topics selected from current elementary and junior high science programs. Restricted to students in curricula for elementary and junior high school teachers.
1010. **Chemistry for Elementary and Junior High Education.** (1-2-2) Principles of chemistry having particular application in the fields of elementary and junior high education are presented. Restricted to students in curricula for elementary and junior high school teachers. Prerequisite: Physical Science 1000. Credit cannot be accepted toward a degree for both Physical Science 1010 and Chemistry 1100 or 1300 or 1310.
3400. **Methods of Teaching Physical Sciences.** (3-0-3) F, S. Science lesson presentations, and examination of current literature concerning new approaches in teaching chemistry and physics.

PHYSICS

Note: Physics 1150 and 1160 are intended for students desiring a cultural exposure to physics but lacking the science and mathematics background for enrollment in Physics 1350 and 1360. Students with more extensive background should normally take the latter sequence.

UNDERGRADUATE COURSES

1050. **Adventures in Physics.** (2-2-3) Emphasizes the relevance of physics to Twentieth Century living. Topics selected from such areas as environmental pollution, light and photography, physics of music, space travel, atomic energy, relativity, etc. No pre-

requisite. No credit toward major or minor in physics nor for a student who has had a previous course in college physics.

1150. **Principles of Physics I. (3-2-4)** Force and acceleration as they relate to stationary and moving objects, Newton's Law of Gravitation, centripetal force, momentum, some aspects of astronomy, energy, relativity.
1160. **Principles of Physics II. (3-2-4)** Electricity, and magnetism, light, quantum theory and uncertainty principle, atomic and nuclear physics. Prerequisite: Physics 1150 or permission of instructor.
1210. **Acoustics for Speech and Music Students. (2-2-3)** S. Sound and acoustics as applied to speech and music. Enrollment limited to music and speech majors or minors.
1350. **College Physics I. (3-3-4)** Statics, dynamics, simple harmonic motion, waves, sound, kinetic theory, and thermodynamics.
1360. **College Physics II. (3-3-4)** Electricity and magnetism, optics, atomic and nuclear physics. Prerequisite: Physics 1350 or permission of instructor.
2370. **Modern Physics. (2-3-3)** Relativity, origin of quantum theory, atomic structure, nuclear structure, instruments and accelerating machines used in nuclear physics, nuclear reactions, elementary particles. Prerequisite: Physics 1360 or permission of instructor. Corequisite: Mathematics 2351.
2390. **Classical Mechanics I. (3-0-3)** F, S. One dimensional motion, line integral computation of work, vector analysis in coordinate systems, conservative fields, harmonic motion. Prerequisite: Physics 1350. Corequisite: Mathematics 2352.
2400. **Classical Mechanics II. (3-0-3)** S. Central force motion, gravitational fields and potential, accelerated coordinate systems, vibrating string. Prerequisite: Physics 2390. Corequisite: Mathematics 2353.
3000. **Descriptive Astronomy. (2-2-3)** An introduction to: the solar system, stars, starlight, interstellar material, galaxies, evolution of stars and galaxies. Open to all students. Does not count towards a physics major or minor.
- 3010, 3011, 3012. **Mini-Physics. (1-0-1 for each)** Su, S. Self-contained treatment of an area of physics or of physics and its relationship to society or the environment. Specific topics announced each semester. May be repeated with the approval of the chairman of the department. A maximum of 3 sem. hrs. may be counted toward graduation.
3150. **Electronics. (2-4-4)** A study of the fundamentals of transistor electronics. Emphasis on scientific applications. Prerequisites: Physics 1360 and one course in calculus.
3410. **Electricity and Magnetism I. (2-2-3)** F. Coulomb's law, electric fields, potential, Gauss' law, capacitance, dielectrics, electrostatic energy, DC circuits. Prerequisites: Physics 1360 and Mathematics 2353.
3420. **Electricity and Magnetism II. (3-3-4)** S. Magnetic fields, inductance, varying electric currents, magnetic materials, L, R, and C circuits, Maxwell's equations and applications. Prerequisite: Physics 3410.
4000. **Seminar in Physics. (1-0-1)** F, S. Reports and discussions of selected topics with instructor approval for oral presentation. Required of junior majors.
4010. **Seminar in Physics. (1-0-1)** F, S. Reports and discussions of selected topics with instructor approval for oral presentation. Required of senior majors.
4410. **Independent Study. (0-6-3)** Selected problems based on student's interests. Admission and assignment of problems by arrangement. Laboratory, reading and conference. Prerequisite: Permission of instructor.
4470. **Optics. (2-3-3)** S. Geometrical optics, optical instruments, wave optics: superposition, coherence, interference, diffraction, polarization. Corequisites: Physics 3420, Mathematics 3501.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **Thermodynamics and Statistical Mechanics. (4-0-4)** Su, F. Thermometry, thermodynamic laws, kinetic theory, Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics and applications. Prerequisites: Physics 1360; Mathematics 2352.
4800. **Independent Study. (0-6-3)** Selected problems based on the student's interests. Admission and assignment of problems by arrangement. Laboratory, reading, and conference. Prerequisite: Permission of the instructor.
4830. **Experimental Physics I. (0-6-3)** Experiments chosen for their pertinence to high school physics teaching. Emphasis on selection, procedure, analyzing results and reporting. Required for high school physics certification. Prerequisite: Physics 1360.
4840. **Experimental Physics II. (0-6-3)** Experiments from different areas of physics using varied techniques and equipment in acquisition and analysis of physical data. Prerequisite: One physics course beyond Physics 1360.
4850. **Quantum Mechanics and Atomic Physics I. (3-3-4)** S, Su. Schrodinger equation applied to one, two, and three dimensional problems, harmonic oscillator and hydrogen atom, uncertainty principle. Prerequisites: Physics 2370; Mathematics 3501.
4860. **Quantum Mechanics and Atomic Physics II. (2-0-2)** F. Applications of the Schrodinger equation to nuclear, solid state, exclusion principle, angular momentum, atomic spectroscopy. Prerequisite: Physics 4850.
4870. **Theoretical Physics. (3-0-3)** S. Selected topics from dynamics (Lagrangian, Hamiltonian) electromagnetic theory (Maxwell's equations), etc. Prerequisites: Physics 2400, 3420, 4750 or permission of the instructor.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5120. **Classical Mechanics for High School Teachers. (3)** Su. (every third year beginning 1972) An enhancement of those fundamental concepts of classical mechanics needed for successful teaching. Prerequisites: General college physics, calculus, and high school teaching experience; or permission of the chairman of the department. Credit may be counted only toward the M.S.Ed. degree.
5130. **Electrodynamics for High School Teachers. (3)** Su. (every third year beginning 1972) Topics of special interest in high school teaching selected from electricity and magnetism. Prerequisites: General college physics, calculus, and high school teaching experience; or permission of the chairman of the department. Credit may be counted only toward the M.S.Ed. degree.
5140. **Electronics for High School Teachers. (3)** Su. (every third year beginning 1973) Concepts of the tube and transistor circuits useful in teaching high school physics. Prerequisites: General college physics, calculus, and high school teaching experience; or permission of the chairman of the department. Credit may be counted only toward the M.S.Ed. degree.
5150. **Astronomy for High School Teachers. (3)** Su. (every third year beginning 1973) Topics of special interest in high school teaching selected from modern astronomy. Prerequisites: General college physics, calculus, and high school teaching experience; or permission of the chairman of the department. Credit may be counted only toward the M.S.Ed. degree.
5160. **Modern Physics for High School Teachers. (3)** Su. (every third year beginning 1974) Topics of special interest in high school teaching selected from Twentieth Century physics. Prerequisites: General college physics, calculus, and high school teaching experience;

or permission of the chairman of the department. Credit may be counted only toward the M.S.Ed. degree.

5170. **Optics for High School Teachers.** (3) Su. (every third year beginning 1974) Topics of special interest in high school teaching selected from the field of optics. Prerequisites: General college physics, calculus, and high school teaching experience; or permission of the chairman of the department. Credit may be counted only toward the M.S.Ed. degree.

5990. **Independent Study.** (1 to 6) Selected problems based upon the student's background and interests. Admission and assignment of problems by arrangement. Laboratory, reading, conference, and oral reports. Prerequisite: Permission of the instructor.

POLITICAL SCIENCE

UNDERGRADUATE COURSES

1003. **Introduction to Political Science.** (3-0-3) The basic concepts of Political Science: types of governmental structures and functions, political processes, political philosophies.
1011. **Participation in Political Campaigns.** (1-Arr.-1) F. state and national election years. (Pass-Fail) Active participation in the electoral campaign of an individual candidate for state or national office or for the candidates of one political party. May be repeated with permission of the chairman of the department.
1104. **American National Government.** (3-2-4) The fundamental principles of the American Constitutional System: Federalism, political opinion, political parties, pressure groups, legislators, the Presidency, bureaucracy, judiciary, civil liberties.
- 2003 (2002). **Bibliography of Political Science.** (1-4-3) A survey of library materials and library research techniques in political science.
2011. **Constitutional Principles.** (1-0-1) F, S. (Pass-Fail only) A study of the Declaration of Independence, the proper use and display of the flag, and the constitutions of the United States and the State of Illinois.
2203. **Introduction to International Relations.** (3-0-3) Su, F. An examination of the nature of the nation-state system and the sources of conflict in the international community.
2603. **State and Local Government.** (3-0-3) F, S. The legal authority, structure, leadership and functions of state, county and city governments; an analysis of the Illinois state constitution.
3203. **American Foreign Policy.** (3-0-3) Su, F. An analysis of major American foreign policy problems and the factors shaping foreign policy decisions.
3223. **International Organization.** (3-0-3) S. An analysis of the development, scope and functions of general and regional international organizations and the process of international integration.
3303. **Government and Politics of Great Britain and Western Europe.** (3-0-3) F. An area approach to the structures and functions of governments, political attitudes and behavior, parties, elections and interest groups. Prerequisite: Three semester hours of political science.
3313. **Current Policy Issues in Western Europe and Great Britain.** (3-0-3) (Omitted 1974-75) Health and welfare, civil rights, education, environment, labor-management, agriculture, foreign policy, the Common Market, and other issues of interest. Prerequisite: Three semester hours of political science.

3323. **Government and Politics of the U.S.S.R. and Eastern Europe.** (3-0-3) S. Marxism-Leninism, structures and functions of the Communist Party and government, social and economic policy, dissent, and the police state. Prerequisite: Three semester hours of political science.
3333. **Government and Politics of Latin America.** (3-0-3) F. The government and politics of Latin American countries; the application of general comparative concepts. Prerequisite: Three semester hours of political science.
3343. **Government and Politics of the Middle East.** (3-0-3) S. The governments and politics of the countries of the contemporary Middle East with an emphasis upon the processes of political modernization. Prerequisite: Three semester hours of political science.
3353. **Government and Politics of Africa.** (3-0-3) Su. The political systems and the patterns of development in Africa with an emphasis upon the processes of political modernization in contemporary Africa. Prerequisite: Three semester hours of political science.
3363. **Government and Politics of Asia.** (3-0-3) (Omitted 1974-75) The political systems of the major nations of Asia with an emphasis upon nationalism, political processes and institutions. Prerequisite: Three semester hours of political science.
3413. **Introduction to Public Administration.** (3-0-3) F. A study of the growth, principles and problems of public administration and its relationship to politics. Prerequisite: Political Science 1104.
3503. **Introduction to the Legal System.** (3-0-3) F. Judicial institutions and processes with emphasis upon the selection of judges, judicial decision making, and proposals for reform of the judiciary. Prerequisite: Political Science 1104 or permission of the instructor. (Recommended for Pre-Law students.)
- 3513 (4783). **Politics and the Legal Process.** (3-0-3) S. An analysis of the legal process as an integral part of the American political system with an emphasis upon the behavior of its participants: the police, lawyers, defendants, plaintiffs, politicians. Prerequisite: Political Science 1104.
3643. **Comparative State Politics.** (3-0-3) An introduction to the comparative analysis of state political systems with an emphasis on state administration and policy outputs.
3713. **Political Parties and Elections.** (3-0-3) F. An examination of the structure, function and role of political parties in the United States. Prerequisite: Political Science 1104 or permission of the instructor.
3723. **Political Behavior.** (3-0-3) S. An analysis of individual and group political behavior with an emphasis upon current research. Prerequisite: Political Science 1104 or permission of the instructor.
3733. **Interest Groups.** (3-0-3) S. An analysis of the role and techniques of labor, business, agrarian, ethnic and other groups in the political process. Prerequisite: Political Science 1104 or permission of the instructor.
3743. **The Legislative Process.** (3-0-3) S. An examination of the institutional structures and functions of legislative bodies. Prerequisite: Political Science 1104 or permission of the instructor.
3753. **The American Presidency.** (3-0-3) Su. An analysis of the development of the American Presidency, including the various roles and powers of the President and a comparison of those roles and powers with those of the modern governor. Prerequisites: Political Science 1104 and 2603 or permission of the instructor.
3990. **Summer Study in Ireland.** (0-0-6) Su. Independent research in political science. Six weeks of residence in the Republic of Ireland will be required. Prerequisite: Junior or senior standing.
4000. **Internship.** (Arr.-Arr.-15 or 12) (Pass-Fail) A semester's experience as an intern in a

governmental agency, political party organization, or state or national student organization. Credit for this course does not count toward graduation if the student has earned 12 or more semester hours of Pass-Fail credit in student teaching or any other internship offered by the University. Prerequisites: Permission of the chairman of the department and acceptance of the student by an appropriate organization or agency. *Note:* 15 semester hours credit in fall or spring semester; 12 semester hours credit in summer term.

4503. **Independent Study.** (Arr.-Arr.-3) An intensive study in some specialized area of interest in political science; the student must present an individual study plan for approval. Prerequisites: Six semester hours of political science, senior standing, and permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4753. **Methods of Political Analysis.** (3-0-3) F. The evolution of concepts of political analysis; types of political analysis; the formation of concepts, hypotheses, theories and research problems. Prerequisite: Nine semester hours of political science or permission of instructor.
4744. **The Supreme Court and the Constitution.** (4-0-4) F, S. An analysis of Supreme Court Decisions on judicial review, federalism, powers of Congress, powers of the President, contracts, commerce, taxation; the present status and prospects of civil liberties. Prerequisites: Political Science 1104, 3503, or permission of the instructor.
4793. **Public Administration: Organization and Process.** (3-0-3) Su, F. A study of the dynamics of organization origin and policy development; a survey of contemporary theory and its significance. Prerequisite: Political Science 1104.
4803. **Politics of the Emerging Nations.** (3-0-3) S. A comparative survey of the politics, policies and problems of the emerging nations in Africa, Asia, the Middle East and Latin America. Prerequisite: One 300-level course in comparative government and politics or permission of the instructor.
4813. **International Law.** (3-0-3) S. An analysis of the historical bases and current trends in international law and its role in current world politics. Prerequisite: Political Science 2203 or permission of the instructor.
4843. **Analysis of Urban Politics.** (3-0-3) S. A study of the empirical research dealing with urban government and the structural components of urban politics. Prerequisite: Political Science 2603 or 3643 or permission of the instructor.
4903. **Political Theory: Ancient, Medieval, and Modern.** (3-0-3) F. The origins and evolution of major concepts in political thought from the time of Pericles through Rousseau. Prerequisite: Six semester hours of political science or permission of instructor.
4913. **Contemporary Political Theory.** (3-0-3) S. Contemporary concepts in political thought with an emphasis upon the development of communism, fascism and democracy. Prerequisite: Six semester hours of political science or permission of the instructor.
4933. **The Ideologies of the Developing Nations.** (3-0-3) F. A study of the sources and evolution of political thought in the developing nations with an emphasis upon contemporary ideologies of reform and/or revolution. Prerequisite: Six semester hours of Political Science or permission of the instructor.
4952. **The Literature of Political Science.** (2-0-2) F, S. A comprehensive survey of selected works in the literature of political science. Prerequisite: Twelve semester hours of upper division courses in political science.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5003, 5013. **Administrative Internship.** (3 each course) A student will serve as an intern in a federal, state, county, municipal or party organization or agency appropriate to his area of concentration.
5023. **Contemporary Problems in International Politics.** (3) S. Approaches to the study of international politics and contemporary world problems. Prerequisite: Political Science 2203, or 3203 or 3223.
5033. **Seminar in Western Political Systems.** (3) F. An analysis of selected topics in the political processes and structures of Western nations. Prerequisite: Nine semester hours in comparative political systems or international relations or permission of the instructor.
5053. **Contemporary Constitutional Development.** (3) S. A case-book approach to an analysis of the influence of the Supreme Court and the development of constitutional law. Prerequisites: Political Science 3503, 3513, or 4774.
5063. **Seminar in Urban Development.** (3) F. An analysis of the patterns of development of American cities with an emphasis upon the political ramifications of urban areas. Prerequisites: Political Science 2603, 3643, or permission of the instructor.
5073. **Seminar in Political Behavior.** (3) Su. An analysis of political behavior; the formation of opinions, roles and personality; democratic and authoritarian personality types. Prerequisite: Political Science 3723 or permission of the instructor.
5533. **Seminar in Political Modernization.** (3) (Omitted 1974-75) An analysis of selected topics relating to the political process and structures of the developing nations. Prerequisite: Nine semester hours in comparative political systems or international relations or permission of the instructor.
5543. **Seminar in Public Administration.** (3) S. The environment of public administration, functions of the administrator, organizational theory and practice, personnel administration, administrative law. Prerequisite: Political Science 3413 or 4793 or permission of the instructor.
5583. **Seminar in Political Analysis.** (3) S. An analysis of the logic of scientific inquiry and the construction and carrying out of systematic research designs. Prerequisite: Political Science 4753 or permission of the instructor.
5593. **Seminar in Contemporary Political Theory.** (3) F. An examination of the development of political theory since World War I with an emphasis upon individual research. Prerequisite: Nine semester hours of political science or permission of the instructor.
5950. **Thesis.** (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study.** (1 to 6) An intensive study in some specialized area of interest in Political Science; the student must present an individual study plan for approval. Prerequisite: Nine semester hours of graduate courses in political science. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

PSYCHOLOGY

UNDERGRADUATE COURSES

2310. **General Psychology.** (3-0-3) A survey of methods, concepts, and principles in psychology.

- 2340. Introduction to the Science of Psychology. (3-0-3)** Introduction to methods and techniques of investigation; research design, statistics and other selected topics. Prerequisite: Psychology 2310.
- 2510. Models of Psychopathology. (3-0-3)** Medical, behavioral, and humanistic models of pathological and normal behavior. Emphasis on structure, function, and etiology. Restricted to Psychology majors and minors. Prerequisite: Psychology 2310. Credit not given for both 2510 and 4780.
- 2610. Statistical Methods of Psychology. (3-2-4)** Application of statistical methods to behavioral data. Prerequisite: Psychology 2310. Not open to students who have taken or are enrolled in Mathematics 3701 or 3702.
- 3310. Physiological Psychology. (3-0-3)** F, S. A survey of the physiological correlates of the behavior in man and lower organisms. Prerequisite: Psychology 2310.
- 3400. Methods of Teaching Psychology. (3-0-3)** F. Problems and procedures in preparing presentations to secondary students in the field of psychology. Supervised simulated teaching experience. Prerequisite: Psychology 2310 plus twelve semester hours in psychology.
- 3500. Child Psychology. (2-0-2)** A study of psychological, social, cultural, physical and emotional factors that affect personality development and behavior of children. Prerequisite: Psychology 2310. Credit is not given for both 3501 and 3500.
- 3501. Child Psychology. (2-2-3)** A study of psychological, social, cultural, physical and emotional factors that affect personality development and behavior of children. Field work. Prerequisite: Psychology 2310. Credit is not given for both 3500 and 3501.
- 3520. Adolescent Psychology. (2-0-2)** The psychology of the adolescent in relation to: family, friends, the opposite sex, delinquent behavior, growth and development attitudes, interests, values. Prerequisite: Psychology 2310.
- 3530. Industrial Psychology. (2-0-2)** F, S. Applications of the methods and principles of psychology to industrial situations.
- 3540. Psychology of Maturity and Old Age. (3-0-3)** A study of human developmental age-related changes from post adolescence to death in such psychological process areas as intelligence, learning and memory, personality, sensation and perception, motivation and emotion. Emphasis will be given to developmental changes following adolescence to death. Prerequisite: Psychology 2310.
- 3550. Mental Hygiene. (2-0-2)** Stresses the problem of maintaining mental health as related to the home, school, civic and other social situations.
- 3590. Theories of Personality. (3-0-3)** F, S. A comparison of the major theories of personality with emphasis on the method used in theory validation. Prerequisite: Psychology 2310.
- 3600. Psychological Measurements: Fundamental Principles. (2-0-2)** Statistical background, administration, interpretation and evaluation of interest, aptitude, intelligence and personality tests. Prerequisite: Psychology 2310. Credit is not given for both 3601 and 3600. Not open to psychology majors.
- 3601. Psychological Measurements: Fundamental Principles. (2-2-3)** Statistical background, administration, interpretation and evaluation of interest, aptitude, intelligence and personality tests. Prerequisite: Psychology 2310. Credit is not given for both 3600 and 3601. For psychology majors.
- 3620. Psychology of Learning. (3-0-3)** S. Introduction into basic principles and concepts of learning with particular emphasis on the application to problems of human learning. Prerequisite: Psychology 2310. This course does not substitute for Educational Psychology 3320 or Secondary Education 3320.
- 3810. Experimental Psychology: Learning. (2-4-4)** F, Su. Research projects in animal learning,

acquisition of psychomotor skills and verbal learning. Provides opportunity to design experiments, analyze data and write scientific reports. Prerequisites: Psychology 2310 and 2610.

- 3820. Experimental Psychology: Perception. (2-4-4)** S, Su. Study of the development and organization of perception in man. Provides opportunity to conduct demonstrations and experiments. Prerequisites: Psychology 2310, 2340 and 2610.
- 3900, 3910, 3920. Independent Study in Psychology. (Arr.-1-3 each course)** Admission and assignment of problems by arrangement. Laboratory, reading and weekly conference. Prerequisite: Permission of the instructor. Limited to six hours.
- 3990. Summer Study in Ireland. (0-0-6)** Su. Independent research in psychology. Six weeks of residence in the Republic of Ireland will be required. Prerequisite: Junior or senior standing.
- 4250. History and Systems. (4-0-4)** F. Equal time will be devoted to contemporary systems and the history of psychology as an experimental science.
- 4700. Psychology of Racism and Black Americans. (3-0-3)** Psychology of Racism. Applications of social psychological principles to understanding the formation and perpetuation of racial attitudes. Prerequisite: Psychology 2310, or permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Psychology of Exceptional Children. (3-0-3)** Psychological diagnosis of, and therapeutic programs for, children who deviate from the normal. Prerequisite: Psychology 2310.
- 4780. Abnormal Behavior. (3-0-3)** An examination of etiology, diagnosis, treatment and prevention of neuroses, psychoses and psychophysiological disorders. Prerequisite: Psychology 2310. Credit not given for both 4780 and 2510.
- 4790. Individual Intelligence Testing. (3-0-3)** Advanced study of individual intelligence tests; practice in administration and interpretation. Prerequisites: Psychology 2310 and 3600.
- 4870. Social Psychology. (3-0-3)** A study of individual behavior and psychological processes in the social settings. Prerequisite: Psychology 2310.
- 4880. Advanced Statistics in Psychology. (3-0-3)** S, Su. Analysis of variance techniques in experimental design. Prerequisites: Psychology 2610 or equivalent.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5000. Human Operant Conditioning. (3)** The basic concepts of human operant conditioning. Emphasizes applied research and techniques of behavior management applicable to the home, school and clinic.
- 5010. Psychological Measurements: Actuarial Techniques. (3)** Advanced study of self-report tests: practice in administration and interpretation. Prerequisites: Psychology 2610, 3600 or 4780 or equivalents.
- 5020. Psychological Measurements: Projective Techniques. (3)** F, Su. Study of perceptual personality tests: practice in administration and interpretation. Prerequisites: Psychology 3590 and 5010.
- 5030. The School Psychologist. (2)** S. An introduction into the activities of the school psychologist. Prerequisites: Psychology 3500 and 3520.

5040. **Psychotherapeutic Principles and Practices I.** (3) A critical survey of issues, principles, practices, and research as related to the traditional approaches in psychotherapy. Prerequisite: Psychology 3590 or equivalent.
5050. **Therapeutic Practices: Behavioral Approaches.** (3) Su, S. An indepth approach to the learning foundations of behavior therapy and the practices derived from these foundations. Prerequisites: Psychology 3620 and 5000 or their equivalents.
5550. **Community Psychology.** (3) S, Su. A study of the psychological theory and techniques involved in understanding community organization and change. Includes both didactic and field experience. Prerequisite: Permission of the instructor.
5600. **Quantitative Methods in Psychology.** (3) F. Psychometric theory; correlational analysis, e.g., factor analysis; non-parametric statistics. Prerequisite: Psychology 2610 or equivalent.
5620. **Theories of Learning.** (3) S. A survey and comparison of theories of learning. Prerequisite: Psychology 3620 or permission of the instructor.
5700. **Motivation.** (3) F. An introduction to theory and research related to biological and psychological motivation. Prerequisite: Psychology 3310 or permission of the instructor.
5710. **Comparative Psychology.** (3) Su. A comparison of psychological processes in various forms of animal life, including man. Prerequisite: Permission of the instructor.
5810. **Advanced Experimental I.** (4) F. A survey of the basic findings and theories related to sensory and perceptual processes. Prerequisite: Psychology 3820 or permission of the instructor. Recommend 3310 be taken prior to course.
5820. **Advanced Experimental II.** (4) S, Su. Lecture/Lab. Basic laboratory techniques and instrumentation involved in the study of learning. Emphasizes original experimentation. Prerequisites: Psychology 3810 or 3820 or permission of instructor. Recommend 3310 be taken prior to course.
5890. **Field Study or Practicum.** (3) Supervised experience in a setting that allows the application of skills and training of the student's area of concentration. Prerequisite: Approval of the chairman of the department and permission of the instructor. May be repeated.
5950. **Thesis.** (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5970. **Seminar Topics in Psychology.** (3) Specific areas or topics of psychology will be given intensive study through readings, reports and group discussions. Topics will be selected on the basis of need. Prerequisite: Permission of the instructor.
5990. **Independent Study.** (1 to 6) Advanced study of topics selected by the student and approved by his advisor. May include research, readings, group discussions. Prerequisite: Permission of instructor. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

RECREATION

UNDERGRADUATE COURSES

1320. **Leadership in Recreation.** (2-2-3) Basic philosophy of recreation and of activities and interests in the field of recreation; practical experience in planning and conducting activities.
1780. **Introduction to Community Recreation.** (2-0-2) F, S. Various approaches to community

- organization of recreation with study of the settings provided for the development of recreation services.
2250. **Therapeutic Recreation.** (3-0-3) Program planning and conduct of diverse recreational activities for disabled persons in a variety of settings.
2280. **Organization and Administration of Playgrounds.** (2-0-2) F, S. Administrative problems associated with the total operation of playgrounds.
3510. **Camp Administration and Leadership.** (2-0-2) F, S. Organization and administration of camps including program planning; counselor problems; camp policies.
3550. **Fieldwork in Recreation.** (1-4-3) F, S. Students are assigned to a public or private agency in the community for the purpose of organizing and conducting activities under supervision. Discussion of problems associated with in-service training. Prerequisite: Recreation 1320 and 1780. For recreation majors only.
3560. **Outdoor Education and Outing Crafts.** (1-2-2) S, Su. A study of the approved techniques for out-of-door living and recreation with opportunity for the student to develop skills in the various areas covered.
4410. **Summer Practicum.** (Arr.-Arr.-4) Su. A field experience to include assignment to an established community recreation or agency program. Prerequisite: Recreation 3550.
- 4741, 4742, 4743, 4744, 4745, 4746. **Independent Study.** (Arr.-Arr.-1, 2, 3, 4, 5, 6 respectively) An individual study under faculty supervision of pertinent literature, research, programs or other sources related to selected topic in Recreation. Prerequisite: Permission of the chairman of the department. *Note:* May be repeated; the maximum amount of credit which may be earned is six semester hours.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4760. **Recreation in the Natural Environment.** (1-2-2) F, S. An analysis of existing programs of recreation, both commercial and public, conducted in the natural environment. Laboratory experiences in a variety of outdoor activities.
4790. **Swimming Pool Management and Operation.** (3-0-3) F, S. A course to orient the student in design of swimming pools, water treatment, maintenance problems, operational procedures, and program planning.
4800. **School Recreation and Intramural Sports.** (2-2-3) The educational philosophy of school recreation; function of administrative personnel; units of participation; scheduling; conduct of intramural and school recreation programs.
4830. **Organization and Administration of Park and Recreation Programs.** (3-0-3) Exploration of philosophical viewpoints underlying a recreation program; criteria for evaluating the recreational potential of a community; administrative problems related to park and recreation programs. Not open to students with credit in Physical Education 5280.
4840. **Development of Areas and Facilities for Health, Physical Education, Recreation.** (3-0-3) Design and operation of physical education and recreation facilities, both indoor and outdoor, including types, location, layout, and construction standards.

SECONDARY EDUCATION

UNDERGRADUATE COURSES

2000. **Level I: Experimental Secondary Education Program.** (0-1-0) No prerequisite and open to freshmen and sophomores.

- 3000. Level II: Experimental Secondary Education Program. (2-3-3)** No prerequisite for students enrolled fall semester 1974. Thereafter Secondary Education 2000 is a prerequisite.
- 3100. Level III: Experimental Secondary Education Program. (3-5-5)** Prerequisite: Secondary Education 3000.
- 3320. Educational Psychology and the Instructional Task in Secondary School. (5-0-5)** Individual growth and development, motivation, learning theory, appraisal of human differences. General methods, planning, instructional materials, classroom management, student evaluation, innovative practices, and professionalism. Prerequisite: Psychology 2310 and junior standing. Team teaching with Educational Psychology. A student may take the course for credit in only one of the departments.
- 4000. Level IV: Experimental Secondary Education Program. (Arr.-Arr.-13)** Prerequisite: Secondary Education 3100.
- 4741, 4742, 4743. Independent Study. (Arr.-Arr.-1, 2, 3 respectively)** May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4780. Studies in Education. (3-0-3) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4790. Studies in Education. (2-0-2) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4800. Studies in Education. (1-0-1) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5490. Special Educational Problems. (1-3) On demand.** Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature. Prerequisite: Permission of the chairman of the department. May be repeated for a total of six semester hours.
- 5990. Independent Study. (1 to 6)** Intended to permit a student to pursue more intensively various aspects of the area of his special interest. Prerequisite: Permission of the chairman of the department.
- 6150. Seminar in College and University Teaching. (2) On demand.** This course is designed to develop and improve skill in college and university teaching. The emphasis will be upon developing techniques of teaching, psychology of learning, instructional media, and evaluation.

SOCIAL SCIENCE

UNDERGRADUATE COURSES

- 3400. Methods and materials in the Social Studies in the Secondary School. (3-0-3)** Aims and objectives of social studies teaching; nature and scope of social studies materials; methods employed in teaching the social studies.
- 4400, 4410. Contemporary Problems. (Topics to be determined). (3-0-3 each course)** Su.

SOCIOLOGY

UNDERGRADUATE COURSES

- 2710. Principles of Sociology. (3-0-3)** Study of basic sociological concepts; and social processes; structural and functional analysis of social groups.
- 2720. Social Problems and Social Trends. (3-0-3)** Analysis of the nature of social problems, theories, deviant behavior; social disorganization, adjustment mechanisms and social control. Prerequisite: Sociology 2710.
- 3600. Introduction to Social Work. (3-0-3) F, S.** A survey of principles, techniques, and fields of social work. Prerequisite: Sociology 2710.
- 3622. Demography. (3-0-3) S.** A descriptive and theoretical analysis of the dynamics of population with emphasis on population trends. Prerequisite: Sociology 2710.
- 3650. Social Systems and Social Roles. (3-0-3) F, S.** Social psychological theories; social status and social roles; application of role theories in study of socialization and personal adjustment. Prerequisite: Sociology 2710.
- 3662. The Sociology of Religion. (3-0-3) S.** Study of the development of religious and functional significance of beliefs and rituals. Prerequisite: Sociology 2710.
- 3681. Public Opinion and Propaganda. (3-0-3) F.** Analysis of the fundamentals of communication, the opinion making process, and methods of opinion and attitude manipulation and measurement. Prerequisite: Sociology 2710.
- 3700. Dynamics of Collective Behavior. (3-0-3) S, Su.** Analysis of transitory phenomena, including publics, audiences, crowds, mobs, riots, and social movements. Prerequisite: Sociology 2710.
- 3761. Introduction to Criminology. (3-0-3) F.** A historical and sociological survey of the criminal justice system in the United States, a review of etiological factors of crime, delinquency and prevention. Prerequisite: Sociology 2710.
- 3791. The Community. (3-0-3) S.** Analysis of community structure and function, ecological patterns and processes, social problems, and social action. Prerequisite: Sociology 2710.
- 3801. The Sociology of Rural Life. (3-0-3) F.** Study of patterns of land settlement, social interaction, social structure and function, and social problems unique to the rural way of life. Prerequisite: Sociology 2710.
- 3810. The Sociology of Urban Life. (3-0-3) F, S.** Analysis of the social structure and function, social processes, and planning and development of the city. Prerequisite: Sociology 2710.

3990. **Summer Study in Ireland. (0-0-6) Su.** Independent research in sociology. Six weeks of residence in the Republic of Ireland will be required. Prerequisite: Sociology 2710 and junior or senior standing.
4251. **The Sociology of Education. (3-0-3) F.** Sociological analysis of the structure and function of educational institutions. Emphasis on social processes, patterns, and trends. Prerequisite: Sociology 2710.
4520. **The Development of Sociological Thought. (3-0-3)** This course treats the growth of social thought from the pre-scientific to the modern empirical approach based on current modes of sociological inquiry. Restricted to majors and minors in sociology and social science. Prerequisite: Sociology 2710.
4581. **Work and Leisure in Mass Society. (3-0-3) F.** Study of patterns and theories of work and leisure; emphasis on impact of the industrial and technological revolution, and cybernation. Prerequisite: Sociology 2710.
4611. **Statistical Analysis of Social Data. (3-0-3) F.** Survey of statistical techniques used to summarize and describe the quantitative characteristics of social research data. Also surveys statistical techniques necessary to generalize observations from samples to parent populations.
4622. **Research Methods for Collecting Social Data. (3-0-3) S.** Surveys social scientific methods developed to collect data in human populations. Stresses importance of problem formulation, research design and interpretation. Prerequisites: Sociology 2710, 4611.
4702. **Sociology of Medicine. (3-0-3) S.** Analysis of the relationship between pathology and social structure, function, and processes. Prerequisite: Sociology 2710.
4721. **Social Stratification. (3-0-3) F.** A descriptive and theoretical analysis of social stratification; study of the problems created by differential status, power, and social mobility.
4730. **Marriage and the Family. (3-0-3)** Background of the modern family; the impact of culture and social change; personality factors involved in marriage; family disorganization.
4740. **Racial and Cultural Minorities. (3-0-3)** The causes and consequences of prejudice and discrimination; the effects of majority and minority status for intergroup relations. Prerequisite: Sociology 2710.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **Sociological Analysis of Juvenile Delinquency. (3-0-3)** Advanced study of theories of etiology, treatment and prevention. Prerequisites: 2710, 3761 or consent of the instructor.
4770. **Sociological Analysis of Crime and Criminal Justice System. (3-0-3) S.** An advanced study of social-psychological factors of crime and the adult offender, vis-a-vis the Criminal Justice system; i.e., apprehension, adjudication, treatment and prevention practices. Prerequisites: Sociology 2710, 3761 or permission of the instructor.
4800. **Sociological Aspects of Gerontology. (3-0-3) S.** Review of current gerontological theories and research; consideration of structural and functional aspects of the social order as related to the aging process. Prerequisite: Sociology 2710.
4900. **Individual Problems in Sociology. (3-0-3)** Analysis of selected current social problems with emphasis on sociological research techniques. Restricted to majors in Sociology and Social Science. Prerequisites: Sociology 4520, 4622.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5030. **Contemporary Sociological Theory. (3)** Consideration of the major contemporary sociological theories and conceptual orientations.
5070. **Advanced Research Methods in the Social Sciences. (3)** Philosophy of the social sciences, alternative strategies of research design, data collection methods, techniques of causal analysis, use of library computer programs for data analysis, issues and techniques in the evaluation of social programs. Prerequisites: Sociology 4611 and 4622.
5100. **Social Organization. (3)** Analysis of social groups in the context of social structure, latent and manifest functions, social processes, and the nature of recruitment.
5200. **Urban Social Problems. (3)** In-depth analysis of major social problems of the city. The generation of hypotheses and research proposals will be emphasized.
5300. **Community Planning and Development. (3)** Analysis of the techniques to facilitate orderly growth and redevelopment of the total community, including the study of both social and environmental problems.
5400. **Problems of the American Family. (3)** Investigation of the various theoretical orientations and methodological techniques in the study of family problems; analysis of patterns, trends, and adjustment mechanisms.
5700. **Advanced Criminology. (3)** Seminar exploring recent innovations in the criminal justice system. Prerequisites: Sociology 4750 and 4770, or their equivalents.
5800. **Social Change. (3)** Analysis of theories of social change; emphasis on the major forces in social change as revealed by historical examples.
5850. **Advanced Sociology of Medicine. (3)** A comparative study of health care organization with special attention to the recruitment and socialization of medical professionals and paraprofessionals.
5930. **Internship in Social Relations. (3 to 6)** A supervised work experience in local agencies to familiarize students with actual day-to-day operations and procedures relevant to the student's option.
5950. **Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study. (1 to 6)** Individual pursuit of study selected by the student. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

SPECIAL EDUCATION

UNDERGRADUATE COURSES

2500. **The Education of Exceptional Children. (2-0-2) F, S.** A study of the special educational needs of students with exceptional characteristics; the methods; and the educational programs designed to meet their needs in the public schools.
3300. **The Mentally Handicapped Child. (3-0-3)** A study of the characteristics of mentally handicapped children. Prerequisites: Elementary Education 2320 or Psychology 3500, or permission of the chairman of the department.
3350. **The Child with Learning Disabilities. (2-0-2)** This course will deal with the nature and characteristics of pupils with learning disabilities. Pupils with physiological and perceptual disabilities will be studied. Prerequisites: Elementary Education 2320 or an acceptable substitute.

3400. **Methods, Material, Curriculum for Secondary Educable Mentally Handicapped.** (3-0-3) S. Methods and techniques of teaching educable mentally handicapped children at secondary level. Prerequisites: Junior standing and Special Education 3300.
4660. **The Socially and Emotionally Maladjusted Child.** (3-0-3) F. A study of the nature and characteristics of socially and emotionally maladjusted children including causes, treatment, identification, and educational planning. Prerequisites: Junior standing, Elementary Education 2320, or an acceptable substitute, or permission of the chairman of the department.
- 4741, 4742, 4743. **Independent Study.** (Arr.-Arr.-1, 2, 3 respectively) May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4870. (4670). **Diagnosis of Problems of Socially and Emotionally Maladjusted Children.** (2-0-2) S. A study of the test and examinations used to evaluate the emotional and psychological problems of maladjusted children. Prerequisite: Special Education 4660 and permission of the chairman of the department.
- 4880 (4680). **Teaching the Socially and Emotionally Maladjusted.** (3-0-3) Su. Prerequisites: Special Education 4660 and 4870 or permission of the chairman of the department.
4960. **Educational Procedures for Educable Mentally Handicapped Children.** (3-0-3) Class and curriculum organization and introduction to methods and techniques of teaching educable mentally handicapped children. Prerequisite: Special Education 3300 or permission of the chairman of the department.
4980. **The Diagnosis of Learning Disabilities.** (3-0-3) The study of the means and methods of diagnosing learning disabilities of children which interfere with their learning processes. Prerequisites: Special Education 3350 or permission of the chairman of the department.
4990. **Remediation of Learning Disabilities.** (3-0-3) F, S. This course deals with the various methods and techniques of remediation of children with learning disabilities. Prescription writing, procedures of teaching; curriculum needs, and classroom management of such children will be studied. Prerequisites: Special Education 3350, 4980, or permission of the chairman of the department.

SPEECH-COMMUNICATION

UNDERGRADUATE COURSES

1020. **Applied Forensics.** (Arr.-Arr.-1 to 4) Individual study and work in the various activities of the forensics program. Prerequisite: Permission of the chairman of the department. A maximum of four semester hours may be earned; however, a total of four semester hours credit may be counted towards a bachelor's degree for a combination of 1020 and 3020.
1310. **Introduction to Speech-Communication.** (3-0-3) Fundamental principles of selecting, analyzing, evaluating, organizing, developing, and communicating information, evidence, and points of view.
1400. **Parliamentary Law.** (2-0-1) The history, theory, and practice of democratic, orderly conduct of business through application of accepted rules of procedure.
2300. **Persuasion.** (3-0-3) Study of attention, credibility, emotion, identification, motivation, rationalization, and suggestion in communication.

2320. **Discussion.** (3-0-3) Study of the nature of discussion and bases of belief: subject-problems, preparation, process, leadership, participation, types and forms, and evaluation.
2340. **Reasoning in Controversy.** (3-0-3) Study of the responsibility of the advocate in investigation and analysis of evidence; structure of argument; reasoning and refutation. Prerequisite: Speech-Communication 1310 or permission of the chairman of the department.
2520. **Introduction to Mass Communications (Broadcasting).** (3-0-3) F, S. Survey of the origin and growth of broadcasting, the social basis of radio, TV, and motion pictures and the physical nature of mass media.
2530. **Fundamentals of Cinematography.** (2-3-3) Su, S. Introduction to cinema theory and the preparation, production, direction, and technical evaluation of motion picture film.
2540. **Understanding Media.** (3-0-3) S. An historical survey of radio programs, and television productions. A study of mass media.
3020. **Advanced Applied Forensics.** (Arr.-Arr.-1 to 4) Individual study and work in the various activities of the forensics program. Prerequisite: Permission of the chairman of the department. A maximum of four semester hours may be earned; however, a total of four semester hours credit may be counted towards a bachelor's degree for a combination of 1020 and 3020.
3170. **Oral Communication Theories.** (3-0-3) Historical survey of major theorists and theories.
3200. **Speech Criticism.** (3-0-3) Comparative study in which standards of judgment deriving from the social interaction of a speech situation are applied to public addresses to determine their immediate or delayed effect upon audiences and society.
3230. **Advanced Public Speaking.** (3-0-3) (Omitted 1974-75) Principles and techniques of audience analysis, topic analysis and preparation, communication theories, and performance and evaluation. Prerequisite: Speech-Communication 1310 and 2300.
3300. **Interview and Conference.** (3-0-3) The selection, organization, and oral presentation of ideas and supporting materials in interview, conference, and interpersonal situations. Prerequisite: Speech-Communication 1310.
3400. **Teaching Speech.** (3-0-3) F, S. Study of problems, methods, and materials, in teaching oral communication; teaching and directing co-curricular activities. Prerequisites: Fourteen semester hours in speech.
3510. **Broadcasting Internship.** (Arr.-Arr.-1) Individual study, experience and practice in the various aspects of commercial broadcasting. May be taken for a maximum of 3 semester hours credit.
3520. **Radio Production.** (3-0-3) F. Study of equipment and techniques involved in producing radio programs: announcing, scripting, writing, and producing.
3530. **Introduction to Film Communication.** (3-0-3) S. Film as the expression of the performers and technicians. Critical discussion of the film form and content.
3540. **Television Production.** (3-0-3) S. Study and practice of adapting demonstrative documentary and dramatic communications to the television medium. Exercises using studio TV equipment.
3620. **Broadcast News and Special Events.** (3-0-3) S. Study of radio and television news technique and ethics, including gathering, editing, writing, organizations, presentation, and critical judgment. Prerequisite: Speech-Communication 2520 or Journalism 2102.
- 3830 (4830). **General Semantics.** (3-0-3) Study of some basic characteristics of our language including the influence of language structure and levels of abstraction upon thoughts and action.

4000. **Independent Study.** (Arr.-Arr.-3) Consideration of special problems in speech and speech education. Student presents individual study plan for researching history, theory, and/or practice of oral communication. Prerequisite: Permission of the chairman of the department.
4470. **Small Group Communication.** (3-0-3) S. An analysis of theoretical constructs in group dynamics, leadership, participation, and evaluation of group performance.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **Advanced Theory of Mass Communications.** (3-0-3) S. Survey of legal procedures of broadcast law, a survey of audience analysis, the structure of mass communications audiences, propaganda, communication networks, social and self-regulation of the media, and current research.
4760. **Theories of Interpersonal Communication.** (3-0-3) An examination of contemporary theories and models.
4800. **Contemporary American Public Address.** (3-0-3) F. Study of competing points of view on a series of critical issues of the Twentieth Century.
4860. **Psychology of Speech.** (3-0-3) F. Study of the nature, origin, and purposes of speech; basic psychological principles; the communicative process; group communication; personality and speech.
4900. **Directing Forensic Activities.** (3-0-3) Designed to prepare those entering the field of speech education on the secondary and college levels to direct an extra curricular forensics program. Prerequisites: Speech-Communication 2320 and 2340.
4996. **Problems in Teaching Speech.** (3-0-3) Su. The analysis of specific problems peculiar to speech education and problems in general education applicable to the speech classroom.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5030. **Seminar.** (3) (On demand) A study of different aspects of speech-communication. Topics will vary according to student demands, availability, and interest of faculty.
5100. **Advanced Argumentation Theory.** (3) (Omitted 1974-75) A study of advanced theory into the nature, function and structure of argument.
5320. **Background of Rhetoric.** (3) F. A study of rhetorical theory from 465 B.C. through 1400 A.D.
5330. **Background of Rhetoric.** (3) (Omitted 1974-75) A study of rhetorical theory from 1400 through 1900.
5400. **American Public Address.** (3) F. A study of the influence of public speakers on the creation of American ideals and policies during the colonial and early national period to 1850.
5410. **American Public Address.** (3) S. A study of public speaking in America from 1850 through the early Twentieth Century.
5580. **Theories of Leadership in Communication.** (3) F, Su. An investigation of leadership theories and their relationship to interpersonal communication.
5600. **Deliberation of Human Problems.** (3) S. Investigation, discussion, and debate as modes of procedure in human affairs. Principles and procedures applied to actual problems.
5620. **Modern Rhetorical Theory.** (3) S. Survey of Twentieth Century theories of rhetoric.

5720. **British Public Address.** (3) S. Study of British public speakers with emphasis upon their abilities to utilize the canons of rhetoric to influence given audiences on given occasions.
5820. **Survey of Behavioral Research in Communications.** (3) S. The summarization, evaluation, and synthesization of behavioral research in communication. A review of scientific methods and experimental results of communication studies. Prerequisite: Speech 5910 or permission of instructor.
5830. **Seminar in Teaching Speech on the College Level.** (3) F. Objectives: problems, methods, materials in teaching college speech. Prerequisite: Nine semester hours in speech or permission of the chairman of the department.
5890. **Philosophical Foundations of Speech.** (3) S. Studies designed to synthesize the student's rhetorical background and to philosophically relate rhetoric to philosophy, logic, politics, ethics, and language.
5900. **Qualitative Research Methods in Speech-Communication.** (2) F. An introduction to research methods, bibliographical resources, and professional writing in the field of speech.
5910. **Quantitative Research Methods in Communication.** (2) F. An introduction to quantitative research methods for graduate students planning quantitative research in communications.
5950. **Thesis.** (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study.** (1 to 6) The study of and reports on a specific problem in speech. Student presents an individual study plan for researching history, theory, and/or practice of speech. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

SPEECH PATHOLOGY AND AUDIOLOGY

UNDERGRADUATE COURSES

0201. **Communication I for International Students.** (3-2-4) F. An intermediate course dealing with speech intelligibility and listening comprehension. Prerequisite: Michigan Test of English Language Proficiency and permission of the instructor.
0202. **Communication II for International Students.** (3-2-4) S. An intermediate course dealing with reading and writing skills. Prerequisite: Michigan Test of English Language Proficiency and permission of the instructor.
0203. **Communication III for International Students.** (3-2-4) (Offered on demand) An advanced course dealing with oral and written skills necessary for students to profit from basic English and speech courses. Prerequisite: Michigan Test of English Language Proficiency and permission of the instructor.
1100. **Developmental Phonology.** (2-2-3) Physiologic, acoustic and linguistic bases of English phonology. The course develops IPA transcription skills in standard, dialectic, and defective speech patterns.
2110. **Structure and Function of the Speech and Hearing Mechanisms.** (2-0-2) F. Basic neurologic, anatomical and physiologic concepts. Students observe in the clinic.
2140. **Voice Science.** (3-0-3) S. Applies basic acoustic and physiologic information to normal speech: speech sounds, pitch, loudness, quality, and rate. Students observe in the clinic.
2210. **Childhood Development of Speech.** (3-0-3) S. Normal development and measurement of spoken language abilities in children.

2800. **Speech Pathology.** (3-0-3) S, Su. A study of the pathology, etiology and treatment of articulatory, voice, hearing, stuttering, and organically based speech disorders.
2830. **Evaluation and Therapy.** (2-0-2) S. Training in specific diagnostic techniques for speech disorders; planning specific corrective techniques. Students observe in the clinic. Prerequisite: Speech Pathology and Audiology 2800 or permission of the instructor.
3250. **Language Disorders.** (3-0-3) F. Evaluation, and correction for language disorders associated with developmental delay C.N.S. involvements, and cultural deprivation. Prerequisites: Speech Pathology and Audiology 2210, 2800, 2830 or permission of the instructor.
3300. **Voice and Articulation Disorders.** (3-0-3) F. Nature, causes and treatment of voice and articulation disorders. Prerequisites: Speech Pathology and Audiology 2800, 2830 or permission of the instructor.
3410. **Stuttering.** (2-0-2) F. Prominent theories of causes of stuttering are surveyed. Corrective techniques are studied and evaluated. Prerequisites: Speech Pathology and Audiology 2800, 2830 or permission of the instructor.
3500. **Organic Disorders of Speech.** (3-0-3) S. Etiology and correction of organic disorders of speech; cleft palate, cerebral palsy, and laryngectomy. Aphasia will be included briefly. Prerequisites: Speech Pathology and Audiology 2800, 2830, 3300 or permission of the instructor.
3600. **Audiometry and Hearing Aids.** (3-0-3) S. Pure tone and speech audiometry; techniques for hearing aid selection. Students conduct hearing surveys and do individual hearing tests. Prerequisites: Speech Pathology and Audiology 2800, 2830, or permission of the instructor.
4700. **Clinical Practice.** (Arr.-Arr.-1 to 3) Supervised work with a variety of speech and hearing defects; forth-five clock hours per semester hour's credit. Prerequisites: Speech Pathology and Audiology 2800, 2830; permission of the Director of the Speech and Hearing Clinic.
4740. **Independent Study.** (Arr.-Arr.-3) (May be taken twice.) Independent directed study of a specific problem or problems in speech pathology, audiology, speech or hearing correction. Prerequisite: Permission of the instructor and the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4800. **Speech Correction for the Classroom Teacher.** (3-0-3) F. Classification, incidence, prevention, and classroom management of defective speech and nature of speech correction services.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5250. **Language Disturbances.** (2) S. Language patterns of children and adults with oral communication impairments. Emphasis on the diagnostic and corrective procedures. Prerequisites: Speech Pathology and Audiology 2210, 2800, 3500; Psychology 4790 or permission of the instructor.
5350. **Articulation Disorders.** (2) F. Advanced study of causes and treatment of articulation disorders. Testing, symptomatology and correction are stressed. Prerequisite: Speech Pathology and Audiology 3300.

5370. **Voice Disorders.** (2) S. Advanced study of etiology and correction of functional and organic voice problems. Voice pitch, quality, and intensity. Prerequisite: Speech Pathology and Audiology 3300.
5410. **Stuttering.** (3) S. Advanced study of the problem; integration of prominent theories and treatment in stuttering; analysis of significant findings and trends in research on stuttering. Prerequisite: Speech Pathology and Audiology 3410.
5500. **Organic Speech Disorders.** (4) F. Diagnosis and therapy for aphasia and related disorders. The equivalent of two hours of testing practicum per week is required. Prerequisite: Speech Pathology and Audiology 3500 or permission of the instructor.
5600. **Audiometry.** (3) F. Advanced study of the assessment of hearing losses. Emphasis on a functional test battery, diagnostic problems, and hearing aid selection. Prerequisite: Speech Pathology and Audiology 3600.
5651. **Aural Rehabilitation I.** (2) F. Advanced study of rehabilitation for the hard-of-hearing. Prerequisites: Speech Pathology and Audiology 3600, 5600, or permission of the instructor.
5652. **Aural Rehabilitation II.** (3) S. Continued study of aural rehabilitation including medical, psychological, vocational aspects and amplification systems. Prerequisites: Speech Pathology and Audiology 3600, 5600, 5651.
5653. **Advanced Principles of Audiology.** (1-4) On demand. Advanced principles of hearing habilitation and rehabilitation, may include hearing conservation, instrumentation, psychoeducational aspects of hearing disorders and related topics. May be repeated for a maximum of six semester hours by permission of the chairman of the department.
5700. **Advanced Clinical Practice.** (1 to 5) Supervised corrective work with clients with speech and/or hearing defects. Prerequisite: Speech Pathology and Audiology 4700; permission of the Director of the Speech and Hearing Clinic.
5900. **Introduction to Graduate Study in Speech Pathology and Audiology.** (4) F, Su. Introduction to research methodology and experimental design. Prerequisite: Permission of the instructor.
5920. **Research Procedures in Speech Science.** (3) (Offered on demand) Some major instruments and procedures in experimental phonetics, voice research, and other research areas in speech pathology. Prerequisite: Speech Pathology and Audiology 5900.
5950. **Thesis.** (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study.** (1 to 6) Independent, directed study of a specific problem or problems in speech pathology, audiology, speech or hearing correction. Prerequisite: Permission of the instructor and the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

STUDENT LEADERSHIP

3000. **Student Government Leadership.** (2-0-2) May be taken Pass-Fail only. Restricted to sophomores and juniors. A seminar in student government with emphasis on governance in higher education, the administration of Eastern Illinois University, financing of higher education, the student's role in governance, and the development of leadership skills.

STUDENT TEACHING

UNDERGRADUATE COURSES

The number of semester hours of student teaching required for graduation varies with the student's curriculum. A student enrolled in elementary education — special education is required to earn 15 semester hours of credit in student teaching with 6 semester hours required in elementary student teaching and 9 semester hours in special education student teaching. A student enrolled in elementary or junior high school education must enroll for a minimum of 8 semester hours and may enroll for a maximum of 15 semester hours of credit in student teaching.

A student enrolled in a high school curriculum is required to earn 12 semester hours in student teaching which represents both minimum and maximum credit that may be earned in student teaching. Questions pertaining to student teaching should be directed to the subject area coordinator or the Director of Student Teaching. (Pass-Fail only)

- 4301. Teaching Practicum in the Elementary and Junior High School (Arr.-Arr.-1) F, S.
- 4302. Teaching Practicum in the Elementary and Junior High School. (Arr.-Arr.-2) F, S.
- 4304. Teaching Practicum in the Elementary and Juntio High School. (Arr.-Arr.-4) F, S.
- 4308. Teaching Practicum in the Elementary and Junior High School. (Arr.-Arr.-8) F, S.
- 4401. Teaching Practicum in the Secondary School. (Arr.-Arr.-1) F, S.
- 4402. Teaching Practicum in the Secondary School. (Arr.-Arr.-2) F, S.
- 4404. Teaching Practicum in the Secondary School. (Arr.-Arr.-4) F, S.
- 4408. Teaching Practicum in the Secondary School. (Arr.-Arr.-8) F, S.

THEATRE ARTS

UNDERGRADUATE COURSES

- 1101, 1102. Theatre Practicum. (Arr.-Arr.-1 each course) Individual work and study in the various activities of theatrical production. These courses may be taken more than once, but only two semester hours of credit may be counted toward graduation.
- 1132. Voice and Phonetics. (3-0-3) A study of voice production and the articulation of sounds; the phonetic alphabet; ear training, and practice in phonetic transcription.
- 1133. Beginning Interpretation. (3-0-3) Designed to introduce the student to the study of literature through the medium of oral performance, where the medium is itself a process of defining.
- 2240. Introduction to the Theatre. (3-0-3) A general introduction to theatrical and dramatic art.
- 2244. Acting. (3-3-3) F, S. A study of the methods of learning and teaching techniques for the actor.
- 2257. Technical Direction. (3-3-3) F, S. Construction and painting of scenery properties; theory and technique and stage lighting.
- 2281. Summer Theatre. (Arr.-Arr.-6 to 9) Su. This course is designed to give practical, comprehensive experience in theatre arts. Credit for six or nine semester hours may be earned in one summer. However, a maximum of nine semester hours total from Theatre Arts 2281 and/or 4810 may be counted toward a bachelor's degree.

- 3333. Advanced Interpretation. (3-0-3) F, S. Interpretation of literature in traditional and experimental styles. Introduction to the aesthetics of Readers and Chamber Theatre. Prerequisite: Theatre Arts 1133 or permission of the instructor.
- 3357. Scene Design. (3-3-3) F. Consideration of the design sequence from analysis of the script to the completion of production drawings; practical experience. Prerequisite: Theatre Arts 2257 or permission of the instructor.
- 3358. Design and History of Costume. (3-3-3) S. History of Costume from the early Egyptians to the present day. Costume design for theatrical production.
- 3431. Children's Dramatics. (3-0-3) F, S. Dramatics as educational devices for children. The advantages of dramatizing literature, history, and other subjects. Choice of plays is presented.
- 3445 (4445). Directing. (3-3-3) F, S. The study and actual production of the play. Central emphasis is placed on directing.
- 3751, (4751). Theatre History to 1650. (3-0-3) F, Su. The origin of theatre as a social force and an artistic form in the Classical Greek, Roman, Medieval, Elizabethan, and Neo-Classical French Periods.
- 3752, (4752). Theatre History, 1650 to the Present. (3-0-3) S, Su. The history of the theatre and its literature from the middle of the Seventeenth Century to present.
- 3920, (4920). Oral Interpretation of Poetry. (3-0-3) S, Su. A study of the experimental nature of poetry and the recreation of the experience through oral performance. General forms and the works of two or three poets will be considered. Prerequisites: Theatre Arts 1133, 3333, or permission of the instructor.
- 3960, (4960). Oral Interpretation of Prose Fiction. (3-0-3) F, Su. A study of four Twentieth Century novelists through close literary analysis and oral performance. Particular attention will be given to the problems of point-of-view. Prerequisites: Theatre Arts 1133, 3333, or permission of the instructor.
- 3990. Summer Study in Ireland. (0-0-6) Su. Independent research in Theatre Arts. Six weeks of residence in the Republic of Ireland will be required. Open to juniors and seniors.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4810. Summer Theatre. (Arr.-Arr.-6 to 9) Su. The course is designed to give practical, comprehensive experience in dramatic art. Credit for six or nine semester hours may be earned in one summer. However, a maximum of nine semester hours total from Theatre Arts 2281 and/or 4810 may be counted toward a bachelor's degree. Six semester hours may be applied toward a master's degree only if credit in either Theatre Arts 2281 or 4810 has not been counted toward a bachelor's degree.

ZOOLOGY

UNDERGRADUATE COURSES

- 1010. General Zoology. (2-4-4) A study of tissues, organs and organ-systems, followed by a survey of the animal kingdom. Prerequisite: Life Science 1000 or equivalent.
- 2000. Mammalian Anatomy. (0-6-3) A study of the principles of mammalian anatomy. Prerequisite: Life Science 1000; Zoology 1010 highly recommended.

- 2100. Comparative Vertebrate Anatomy. (2-4-4) F, Su.** A study of structures and their evolution in chordates. Laboratory work with a variety of forms. Prerequisite: Zoology 1010.
- 2200. Embryology. (2-4-4) S, Su.** Morphological and chemical changes of animal development from germ cell formation through early organogenesis. Laboratory studies primarily of the vertebrates, frog, chick and pig. Prerequisites: Zoology 1010 and one additional course in zoology; Zoology 2100 recommended.
- 3000. Human Physiology. (2-2-3)** A study of the basic physiological principles is followed by experimental studies of the organ-systems of man. Prerequisite: Life Science 1000 or a course in biochemistry.
- 3100. Principles of Animal Physiology. (2-4-4)** A study of basic principles underlying the functions of protoplasm and organ-systems. Prerequisite: Nine semester hours of zoology. Chemistry requirement should be completed.
- 3150. Heredity, Evolution and Society. (2-0-2) F. On demand.** The application of heredity and evolutionary principles to pertinent contemporary social problems. Prerequisite: Life Science 1000 or equivalent.
- 3200. Genetics. (2-2-3)** The fundamental principles of genetics (classical, molecular, and population) stressing applications to all organisms. Prerequisite: Zoology 1010. Not open to those with credit or registration in Botany 3361.
- 3300. Vertebrate Natural History. (2-3-3)** The natural history of vertebrates including distribution, reproduction, economic importance, evolution, and classification. Prerequisite: Zoology 1010.
- 3600. Parasitology. (2-2-3) F, Su.** Means of identification, life histories, and methods of control of the more common animal parasites, including those of man. Prerequisites: Zoology 1010 and one other zoology course.
- 3700. Entomology. (2-4-4) F, Su.** The morphology, classification, ecology and economic importance of insects. Methods of collection and specimen preparation are included. Prerequisite: Zoology 1010.
- 4400. Independent Study. (Arr.-Arr.-1 to 3)** An outline of the proposed work must be approved by the department head prior to registration. Prerequisite: Fifteen semester hours of zoology and permission of instructor and chairman of the department. May be taken for a maximum of four semester hours.
- 4490. Seminar in Zoology. (0-2-1) F, S.** A seminar in current zoological literature. Prerequisite: Nine semester hours of zoology. May be taken twice for credit with permission of the chairman of the department.
- 4510. Microtechnique. (0-6-3) S.** Methods and practice in the preparation of microscope slides of animal tissues. A collection of slides may be made for later use in teaching. Prerequisite: Sixteen semester hours of zoology.
- 4540. Histology. (1-4-3)** The structure, functions, and development of tissues, primarily human. Laboratory study is combined with discussion of the cytological basis for understanding normal and abnormal structure in all vertebrates. Prerequisite: Zoology 2200; organic chemistry recommended.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Cytology. (1-4-3) F.** A study of the structure and function of cells and their component organelles; cytochemical theory and techniques. Prerequisite: Zoology 4510 or permission of the instructor. Zoology 4540 recommended.
- 4760. Invertebrate Zoology. (2-2-3) S.** The phylogeny, morphology, physiology, ecology, geographical distribution and economic importance of invertebrate animals. Prerequisite: Sixteen semester hours of zoology.

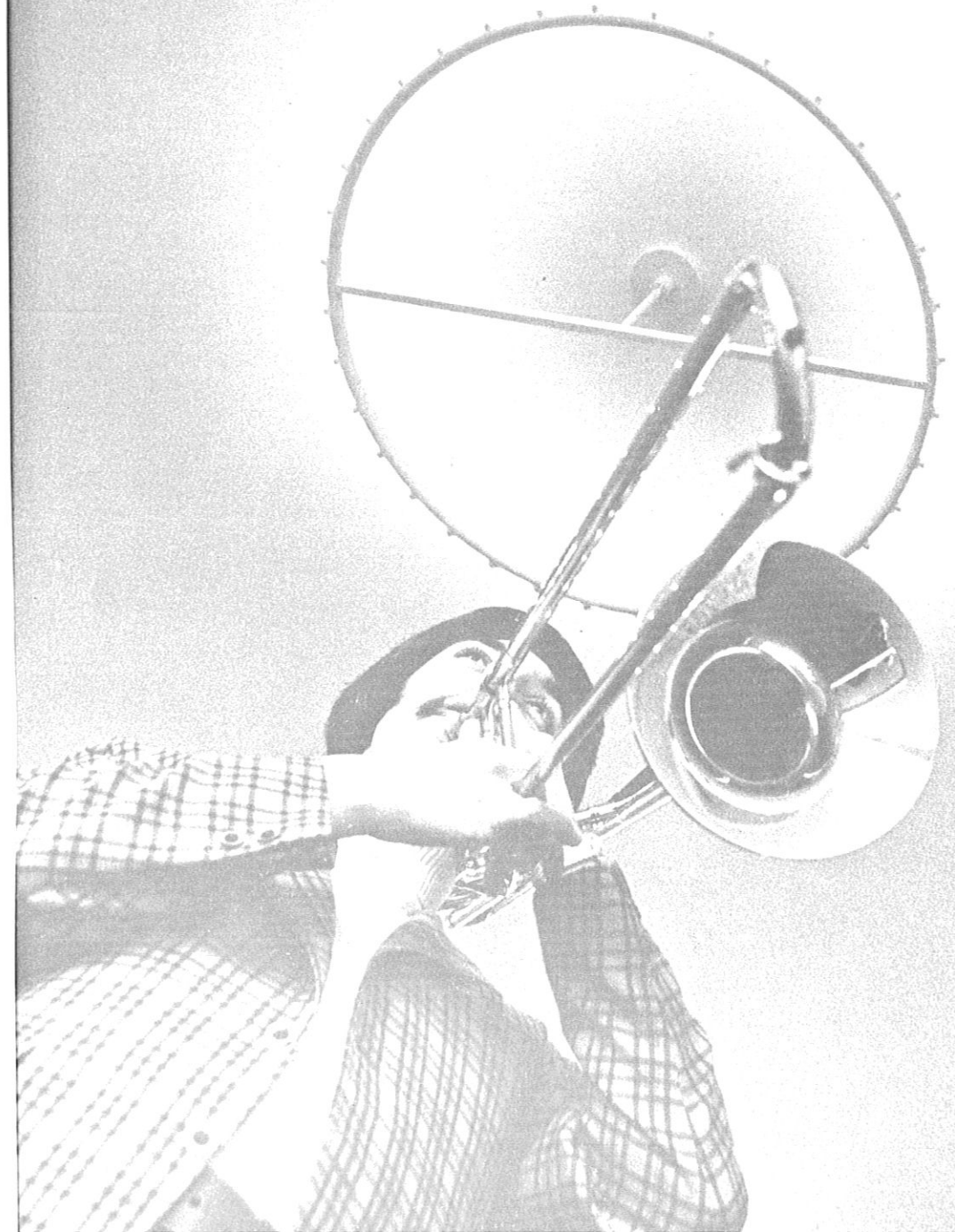
- 4764, (5260). Invertebrate Field Studies. (2-3-3) S, Su.** Identification, relationships, life histories and adaptations of regional invertebrates not covered fully in other courses. Aquatic and soil forms emphasized. Prerequisite: Sixteen semester hours of zoology; Zoology 4760 recommended.
- 4766. Advanced Entomology. (2-4-4) S.** A study of the common families of the major insect orders. Prerequisite: Zoology 3700.
- 4769. Fisheries Management. (1-4-3) F, Su.** Fundamentals of anatomy, classification, life histories and conservation of fish. Field work and study of local fishes are stressed. Prerequisite: Zoology 3300.
- 4770. Ichthyology. (1-4-3) S.** Advanced study of the evolution, anatomy, taxonomy and distribution of the fishes of the world. Prerequisite: Sixteen semester hours of zoology, including Zoology 3300.
- 4772. Herpetology. (2-3-3) S.** Phylogeny, adaptations, ecology, distribution and identification of amphibians and reptiles. Prerequisites: Zoology 2000 or 2100, 3300.
- 4774. Ornithology. (2-3-3) S.** The life histories, adaptations, and structure of birds. Emphasis upon migration, songs, nests and importance of our native species. Prerequisite: Zoology 3300.
- 4777. Mammalogy. (2-3-3) F.** A study of mammals with emphasis on classification, distribution, natural history and ecology. Prerequisites: Zoology 2000 or 2100, 3300.
- 4800. Terrestrial Ecology. (2-3-3) S, Su.** Interrelationships among animal populations, biotic communities, and physical environments in terrestrial ecosystems. Prerequisites: Life Science 3010 and eight semester hours of zoology.
- 4810. Limnology. (1-4-3) F.** The physical environment and biological communities involved in fresh water ecosystems. Prerequisites: One year of chemistry; ten semester hours of zoology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5150. Seminar. (1)** Enrollment required for all graduate students; may be repeated, with maximum of three semester hours credit applied to graduate program.
- 5200. History of Biology. (2) S.** The development of biology from pre-history to date; contributions by various civilizations; the growth of specific fields. Prerequisite: Sixteen semester hours of biological science.
- 5210. Organic Evolution. (3) S.** Fundamental principles of organic evolution stressing historical fact, evidences for and processes common to all biota. Prerequisite: Sixteen semester hours of biological science.
- 5225. Systematics. (3) S.** A study of the methods and principles of animal taxonomy, including speciation and zoogeography. Prerequisite: Sixteen semester hours of biological science.
- 5235. Paleozoology. (3) F.** Laboratory and field studies of animal life of the past. Prerequisites: Zoology 4760, 4800, or permission of the instructor.
- 5255. Protozoology. (3) F.** The morphology, physiology, ecology and life histories of free living and parasitic protozoa. Includes laboratory and field studies. Prerequisites: Eight semester hours of zoology and eight semester hours of chemistry.
- 5355. Arthropodology. (3) F.** A study of arthropods exclusive of insects, with emphasis on

- terrestrial forms. Prerequisite: Sixteen semester hours of zoology; Zoology 3700 and 4760 recommended.
5375. **Wildlife Management.** (3) F. The principles of wildlife management with emphasis on terrestrial game animals; their ecology, life histories and conservation. Prerequisite: Eight semester hours of zoology including Zoology 3300; Zoology 4774 and 4800 recommended.
5380. **Animal Behavior.** (3) S. Theoretical and experimental studies of the reactions of animals to various stimuli. Prerequisite: Sixteen semester hours of zoology, or permission of the instructor.
5400. **Cell Physiology.** (4) S. A study of the fundamental physical and chemical processes which underlie cellular structure and function. Prerequisites: Zoology 3100 and one course in organic chemistry.
5410. **Developmental Zoology.** (4) S. An incisive study emphasizing both classical and recent contributions to the understanding of development of living embryos. Prerequisites: Sixteen semester hours of biological science including Zoology 2200 and 2100 or 2000. Organic chemistry required, biochemistry recommended.
5420. **Endocrinology.** (4) S. A study of the endocrine glands, the action of hormones, and the general features of the endocrine system. Prerequisites: Sixteen semester hours of zoology, and at least one course in organic chemistry.
5900. **Methods in Biological Research.** (2) F. The principles of biological research, including review of literature, defining and organizing problems, and effective presentation of data. Required for all beginning graduate students.
5950. **Thesis.** (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. **Independent Study.** (1 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.



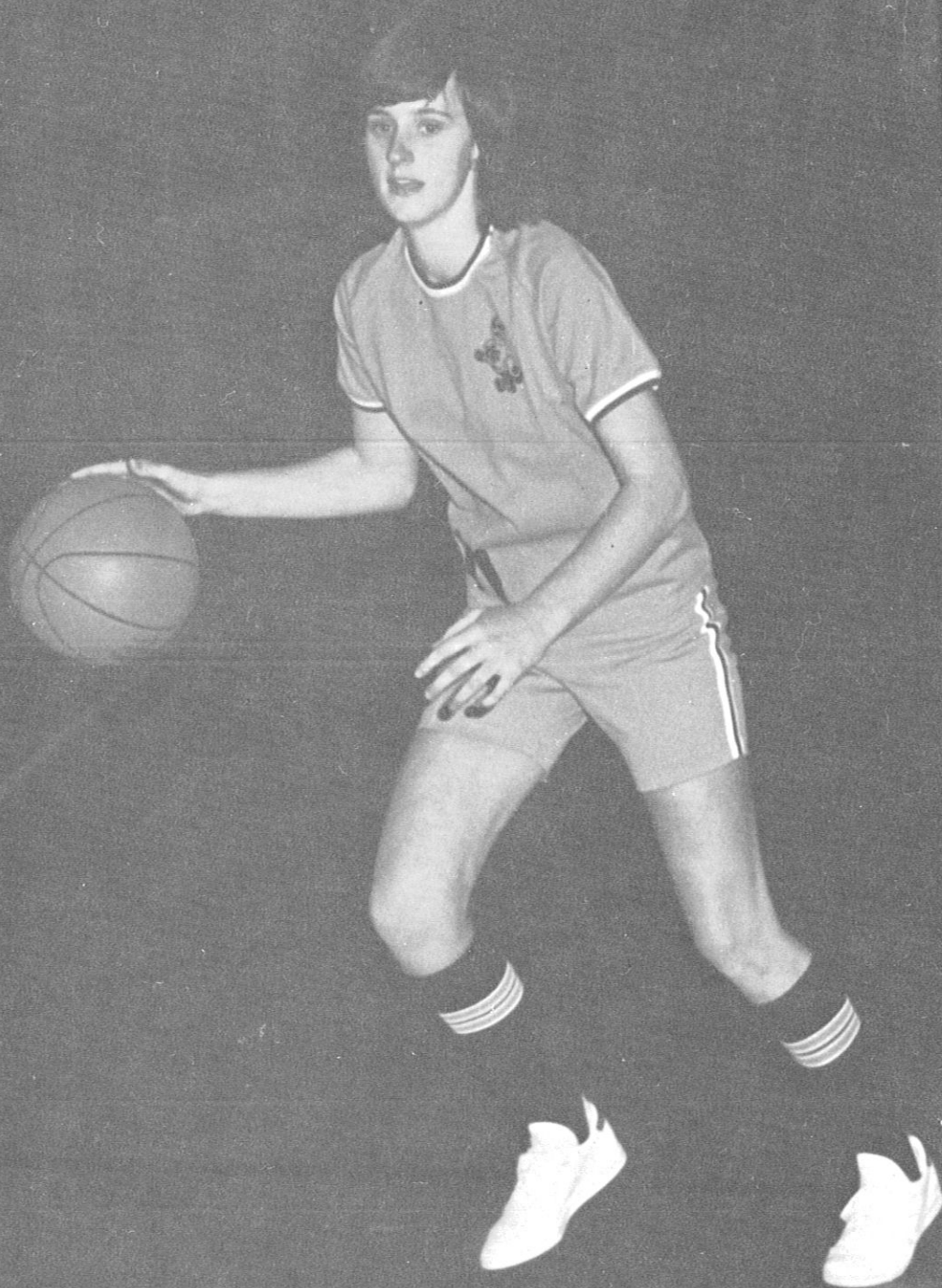
XI. STATISTICS

SUMMARY OF ENROLLMENTS

Fall Quarter, 1972, through Summer Term, 1973

UNIVERSITY

Full-Time, On Campus		Fall	Wtr.	Spg.	Sum.*
Seniors	Men	780	912	899	564
	Women	794	840	859	628
	Total	1574	1752	1758	1192
Juniors:	Men	1058	963	940	381
	Women	1084	1007	1007	550
	Total	2142	1970	1947	931
Sophomores:	Men	776	708	634	179
	Women	1086	971	851	284
	Total	1862	1679	1485	463
Freshmen:	Men	879	799	689	179
	Women	1235	1105	950	180
	Total	2114	1904	1639	359
Graduates: Fifth Year	Men	229	235	227	409
	Women	95	99	101	295
	Total	324	334	328	704
Sixth Year	Men	11	7	15	30
	Women	1	4	6	16
	Total	12	11	21	46
Total: (full-time)	Men	3733	3624	3404	1742
	Women	4295	4026	3774	1953
	Total	8028	7650	7178	3695



		Fall	Wtr.	Spg.	Sum.*
Part-Time, On Campus					
Seniors:	Men	28	44	38	38
	Women	19	29	39	27
	Total	47	73	77	65
Juniors:	Men	18	10	17	20
	Women	22	22	18	18
	Total	40	32	35	38
Sophomores:	Men	8	10	12	11
	Women	13	14	9	8
	Total	21	24	21	19
Freshmen:	Men	7	9	8	12
	Women	19	21	21	13
	Total	26	30	29	25
Graduates:					
Fifth Year	Men	176	149	185	55
	Women	177	159	186	73
	Total	353	308	371	128
Sixth Year	Men	58	48	62	11
	Women	34	32	31	11
	Total	92	80	93	22
Workshops:					
	Men	—	—	—	157
	Women	—	—	—	267
	Total				424
Totals: (part-time)	Men	295	270	322	304
	Women	284	277	304	417
	Total	579	547	626	721
Total On Campus	Men	4028	3894	3726	2046
	Women	4579	4303	4078	2370
	Total	8607	8197	7804	4416
Full-Time Equivalent (resident)					
		8307	7902	7476	3969

Part-Time, Off Campus

	Men	78	189	232	—
	Women	200	128	204	—
	Total	278	317	436	—
Total University:					
	Men	4106	4083	3958	2046
	Women	4779	4431	4282	2370
	Total	8885	8514	8240	4416
Full-Time Equivalent					
		8400	8007	7626	3969
Laboratory School					
	Boys	239	246	237	119
	Girls	247	246	246	105
	Total	486	492	483	224

SUMMARY OF DEGREES AWARDED

September 1, 1972, through August 31, 1973

Degree	Nov. 1972	Mar. 1973	May 1973	Aug. 1973
Specialist in Education	3	1	1	3
Master of Arts	10	5	18	31
Master of Business Administration	6	7	14	7
Master of Science	7	6	10	25
Master of Science in Education	33	12	66	130
Master of Science in Library Science	1	1	8	8
Bachelor of Arts	9	19	36	39
Bachelor of Fine Arts	1	5	6	6
Bachelor of Music	—	1	8	3
Bachelor of Science	34	41	106	58
Bachelor of Science in Business	39	36	136	62
Bachelor of Science in Education	215	234	557	248
Bachelor of Science in Home Economics	6	8	12	9
Bachelor of Science in Industrial Technology	1	4	11	2
Bachelor of Science in Recreation	6	6	11	11
Total	371	386	1000	642

*Summer — 8-week term



XII. FACULTY, 1973-74

EASTERN ILLINOIS UNIVERSITY

Charleston

(Date of joining staff in parentheses)

ADMINISTRATIVE STAFF

OFFICE OF THE PRESIDENT

President

Gilbert C. Fite, Ph.D., University of Missouri (1971)

ACADEMIC AFFAIRS

Provost and Vice President For Academic Affairs

Peter R. Moody, Ph.D., Cambridge University (1967)

COLLEGE OF ARTS AND SCIENCES

- Lawrence A. Ringenberg, Ph.D., The Ohio State University, Dean (1947) (On sabbatical leave, fall semester)
 Ken E. Hadwiger, Ph.D., University of Oklahoma, Assistant Dean (1964) (Acting Dean fall semester)
 Jon Laible, Ph.D., University of Illinois, Acting Assistant Dean (1964)
 Willa M. Hemmons, Ph.D., Case Western Reserve University, Chairman, Afro-American Studies (1973)
 William M. Cloud, Ph.D., University of Wisconsin, Chairman, Pre-Engineering Studies (1962)
 Robert J. Smith, Ph.D., The University of Iowa, Chairman, Pre-Medical Studies (1955)
 Raymond A. Plath, Ph.D., University of Wisconsin, Chairman, Social Science Studies (1946)
 Leonard Durham, Ph.D., University of Illinois, Director, Division of Life Sciences (1955)

GRADUATE SCHOOL

- Lavern M. Hamand, Ph.D., University of Illinois, Dean (1957)

SCHOOL OF BUSINESS

- James F. Giffin, Ph.D., Northwestern University, Dean (1947)

SCHOOL OF EDUCATION

- Harry J. Merigis, Ed.D., University of Oklahoma, Dean (1954)
 George W. Schlinsog, D.Ed., University of Oregon, Assistant Dean for Administration (1967)
 Charles Kofoed, Ed.D., University of Nebraska, Assistant Dean for Instruction (1970)
 Robert Zabka, Ph.D., Northwestern University, Director of Student Teaching (1964)
 Donald G. Gill, D.Ed., University of Illinois, Principal of the Laboratory School (1960)
 Charles L. Joley, Ed.D., University of Illinois, Coordinator, Vocational-Technical Education (1970)
 Russell L. Nichols, M.S., Purdue University, Coordinator of Area Services (1973)

SCHOOL OF HEALTH, PHYSICAL EDUCATION AND RECREATION

- Walter S. Lowell, Ed.D., Michigan State University, Dean (1961)

SCHOOL OF HOME ECONOMICS

- Mary Ruth Swope, Ed.D., Columbia University, Dean (1962)

SCHOOL OF INDUSTRIAL ARTS AND TECHNOLOGY

- Wayne D. Coleman, D.Ed., University of Northern Colorado, Dean (1957)

SCHOOL OF MUSIC

- Robert Y. Hare, Ph.D., The University of Iowa, Dean (1965)
 Rhoderick E. Key, M.M.Ed., Southern Illinois University, Assistant to Dean, (1966)

LIBRARY SERVICES

- B. Joseph Szerenyi, D.Pol.S., Elizabeth University, Hungary, Director (1967)

CONTINUING EDUCATION AND COMMUNITY SERVICES

- George Hackler, Jr., M.S. in Ed., Eastern Illinois University, Director (1967)

AUDIO-VISUAL CENTER

- Gene Scholes, Ph.D., Southern Illinois University, Director (1966)
 Floyd A. Landsaw, Ed.D., Indiana University, Instructional Designer (1965)

BOARD OF GOVERNORS DEGREE PROGRAM

- Donald F. Tingley, Ph.D., University of Illinois, Coordinator (1953)

STUDENT ACADEMIC SERVICES

- Samuel J. Taber, Ph.D., Southern Illinois University, Dean (1960)

Academic Advisement

- William G. Hooper, M.S.Ed., Illinois State University, Director (1962)
 Thomas E. McDevitt, M.A., Southern Illinois University, Advisor (1966)
 Robert G. Winkleblack, M.S. in Ed., Eastern Illinois University, Advisor (1966)
 Calvin B. Campbell, M.A., University of New Mexico, Advisor (1966)
 Janet F. Holley, M.S. in Ed., Eastern Illinois University, Advisor (1968)
 Vanlou Trank, M.S., Indiana University, Advisor (1970)
 Arthur L. Snider, M.S., Ball State University, Advisor (1970)
 Janice L. Rambo, M.S. in Ed., Western Illinois University, Advisor (1972)

Admissions, School and College Relations

- Murray R. Choate, M.S. in Ed., Southern Illinois University, Director (1962)
 Roger L. Haberer, M.S. in Ed., Eastern Illinois University, Associate Director (1972)
 Marvin Shade, M.S. in Ed., Eastern Illinois University, Assistant Director (1973)
 Cynthia D'Andre, M.Ed., Kent State University, Counselor (1973)

Placement

- James F. Knott, Ed.D., Northern Illinois University, Director (1957)
 Robert E. Jones, M.S., Indiana State University, Assistant Director (1963)

Records

James E. Martin, M.A., University of Illinois, Registrar (1968)
John H. Conley, M.S. in Ed., Eastern Illinois University, Assistant Registrar (1972)

Registration

Michael Taylor, Chief Director (1974)
Edward T. Graening, M.S., University of Illinois, Director (1967)
David Sardella, M.S., Mankato State College, Assistant Director (1972)

STUDENT AFFAIRS

Vice President For Student Affairs

Glenn D. Williams, Ph.D., The Ohio State University (1960)

STUDENT PERSONNEL SERVICES

Kenneth M. Kerr, Ph.D., Indiana University, Dean (1971)
Mary P. Rogers, Ed.D., Indiana University, Associate Dean (1966)
James E. Johnson, M.A., New York University, Assistant Dean (1970)

Counseling and Testing Services

Herbert C. Bartling, M.Ed., University of Texas, Acting Director (1969)
John E. Grimes, Jr., M.A., Southern Illinois University, Counseling Psychologist (1968) (On sabbatical leave, fall semester)
David T. Baird, M.S. in Ed., Indiana University, Counselor (1959)
Claud D. Sanders, Ed.D., University of Illinois, Counselor (1966)

Financial Aids

Ross C. Lyman, M.S., Indiana State University, Director (1961)
Sue C. Sparks, M.S. in Ed., Eastern Illinois University, Associate Director (1966)
Lois M. Kramer, M.A., Boston University, Administrative Assistant (1966)
Elmer Pullen, B.S., Eastern Illinois University, Counselor (1970)

Health Services

Jerry D. Heath, M.D., University of Illinois, Director (1956)
Gilbert T. Ransom, M.D., Vanderbilt University, University Physician (1969)
Howard V. Zeigel, M.D., University of Tennessee, University Physician (1972)

International Students

Eulalee Anderson, M.S.Ed., Eastern Illinois University, Advisor (Part-time) (1973)

Student Activities and Organizations

William L. Clark, M.S. in Ed., Eastern Illinois University, Director (1968)

University Union

Herbert L. Brooks, B.S. in Ed., Eastern Illinois University, Director (1966)
Edwin T. McCawley, Assistant Director (1969)
Stephen Grove, B.S. in Bus., Eastern Illinois University, Assistant Director (1972)
Phillip Lindberg, B.S., Eastern Illinois University, Director of Arrangements (1973)

Veterans Services

William D. Miner, Ph.D., Indiana University, Director (1950)

STUDENT HOUSING

Donald A. Kluge, D.Ed., Indiana University, Dean (1957)
Louis V. Hencken, M.S. in Ed., Eastern Illinois University, Associate Dean (1967)
Richard G. Enochs, M.S. in Ed., Eastern Illinois University, Assistant Dean and Director, Married Student Housing (1969)
Mary M. Smith, M.S., Indiana University, Administrative Assistant (1970)

Residence Hall Food Service

Beverly Sterling, M.S., in Ed., Eastern Illinois University, Director (1972)

Residence Hall Counselors

Jo Anne Stuebe, M.S. in Ed., Eastern Illinois University (1962)
Barbara A. Busch, Adv.C., University of Illinois (1964)
Doris J. Enochs, M.S. in Ed., Eastern Illinois University (1967)
Bessie M. Fredericks, M.A., University of Missouri (1967)¹
Margaret J. Reed, Adv.C., University of Illinois (1967)
Jurel V. Jackson, Ed.S., Eastern Illinois University (1968)
Kristan Jensen, B.S., Eastern Illinois University (1970)
Diane E. deLaet, M.Ed., University of Miami (1971)
Keith Kohanzo, M.S. in Ed., Eastern Illinois University (1971)
Sherry L. Meddock, M.S., Indiana University (1972)
Timothy L. Burke, M.S., Eastern Illinois University (1972)
Mickle J. Macaulay, M.S., Iowa State University (1972)
Terrence Webb, M.A., University of North Dakota (1972)
Harry Nicklaus, M.S.*

¹ Resigned

BUSINESS SERVICES

Vice President

Harley J. Holt, M.S., University of Wisconsin (1963)

Marion L. Zane, M.S. in Ed., Eastern Illinois University, Controller (1965)
Paul E. Hipple, B.S., Indiana University, Internal Auditor (1968) (On leave)
John H. Morrissey, M.S. in Ed., Eastern Illinois University, Budget Officer (1968)
Everett R. Alms, Superintendent of Physical Plant (1965)

ADMINISTRATIVE AFFAIRS**Vice President**

Martin Schaefer, Ph.D., The University of Iowa (1958)

Wayne S. Owens, Ed.D., Indiana University, Director, Institutional Research and Administrative Associate (1969)

Robert H. Weidhuner, B.S., Southern Illinois University, Assistant, Administrative Studies (1966)

Computer Services

Roland D. Spaniol, Ph.D., The University of Iowa, Director (1960)

Nancy J. Crewell, M.S., Eastern Illinois University, Assistant (1971)

AFFIRMATIVE ACTION

Jimmie Franklin, Ph.D., University of Oklahoma, Director (1970)

ATHLETICS

Tom Katsimpalis, Ed.D., University of Northern Colorado, Director (1959)

UNIVERSITY RELATIONS AND SPECIAL SERVICES**UNIVERSITY RELATIONS AND ALUMNI SERVICES**

Kenneth E. Hesler, M.Ed., University of Illinois, Director (1951)

Harrison Read, B.S. in Ed., Eastern Illinois University, Director, Information and Publications (1964)

Charles Titus, M.A., Eastern Illinois University, Assistant Director, Alumni Services and Assistant, University Relations (1972)

David Kidwell, B.S., Eastern Illinois University, Director, Sports Information and Assistant, Information and Publications (1972)

INSTRUCTIONAL STAFF

* Denotes department chairmen

** Denotes acting department chairmen

A

Dewey F. Abell, M.L.S., University of California, Assistant Professor, Library. (1969)

David C. Ahlstrom, Ph.D., Eastman School of Music, Associate Professor, Musical Studies. (1967) (On leave)

Charles Alexander, M.M., University of Illinois, Instructor, Musical Performance. (1973)

Dewey H. Amos, Ph.D., University of Illinois, Professor, Geography and Geology (1965)

Leslie T. Andre, D.Pol.S., Franz Josef Royal University, Associate Professor Library. (1962)

Richard D. Andrews, Ph.D., University of Illinois, Associate Professor, Zoology. (1966)

Rudolph D. Anfinson, Ph.D., University of Minnesota, Professor, Educational Psychology and Guidance. (1940)

David P. Appleby, Ph.D., Indiana University, Professor, Musical Performance*. (1971)

Mary B. Armstrong, M.A., University of Illinois, Assistant Professor, Speech Pathology and Audiology. (1968) (On sabbatical leave 1973-74)

Charles B. Arzeni, Ph.D., University of Michigan, Associate Professor, Botany. (1965)

Mary E. Atchison, M.S. in Ed., Eastern Illinois University, Instructor, Physical Education for Women. (1969)

Dennis W. Aten, M.S.Ed., Eastern Illinois University, Assistant Professor, Physical Education for Men. (1968)

D. Ferrel Atkins, Ph.D., University of Kentucky, Professor, Mathematics. (1958)

Martha L. Atteberry, M.Ed., University of Illinois, Assistant Professor, Laboratory School. (1967)

Alan R. Aulabaugh, Ph.D., The University of Iowa, Professor, Musical Studies.* (1957)

B

Jumuna Bai, Ph.D., Wayne State University, Associate Professor, Sociology-Anthropology. (1967) (On sabbatical leave, fall semester)

Zeno E. Bailey, Ph.D., The Ohio State University, Professor, Botany. (1969)

Weldon N. Baker, Ph.D., Columbia University, Professor, Chemistry. (1958)

Harold E. Balbach, Ph.D., University of Illinois, Assistant Professor, Botany. (1966)

Wesley E. Ballsrud, M.A., The University of Iowa, Assistant Professor, Accountancy.* (1964)

Judith Barford, A.B., Marquette University, Faculty Assistant, Enrichment of Teacher Competencies Project. (Part-time) (1973)

Robert Barford, Ph.D., Indiana University, Assistant Professor, Philosophy. (1968)

Joel Barkmeier, M.A., University of South Dakota, Assistant Professor, Speech Pathology and Audiology and Education. (1973)

Dennis E. Baron, Ph.D., University of Michigan, Assistant Professor, English. (1971)

Anita M. Barta, M.S., University of New Mexico, Instructor, Physical Education for Women. (1970)

Lawrence W. Bates, M.S., Brigham Young University, Assistant Professor, Economics. (1970)

Kandy Baumgardner, Ph.D., Utah State University, Assistant Professor, Zoology. (1973)

Steven A. Becker, Ph.D., The University of Iowa, Associate Professor, Botany. (1968)

Michael J. Belcher, M.A., Pacific Lutheran University, Assistant Professor, Psychology. (1974) (Part-time, spring semester)

Randall H. Best, Ph.D., Southern Illinois University, Associate Professor, Psychology. (1968)

Mary A. Bialek, M.Ed., Pennsylvania State University, Assistant Professor, Musical Studies. (1969)

Ruth D. Biggs, B.A., Eastern Michigan University, Faculty Assistant, Laboratory School. (1972)

- Cyrus E. Blair, D.Ed., University of Oregon, Associate Professor, Elementary and Junior High School Education. (1970)
- Clarence Blanchette, M.A., The University of Iowa, Assistant Professor, Theatre Arts. (1973)
- David N. Block, M.A., Brooklyn College, Assistant Professor, English. (1972)
- Paul G. Bodine, M.A., Washington University, Assistant Professor, Art. (1966)
- Daniel J. Bolin, M.Ed., University of Illinois, Assistant Professor, Health Education. (1970)
- Mark R. Bomball, Ph.D., University of Mississippi, Assistant Professor, Management. (1969)
- Fred J. Bouknight, Ed.D., Columbia University, Professor, Musical Studies. (1959)
- Earl W. Boyd, Ph.D., The University of Iowa, Professor, Musical Performance. (1947)
- Karen J. Braun, M.F.A., Temple University, Assistant Professor, Art. (1968)
- Suzan G. Braun, M.F.A., Southern Illinois University, Assistant Professor, Art. (1970)
- Peggy L. Brayfield, Ph.D., Southern Illinois University, Assistant Professor, English. (1970)
- Marvin L. Breig, Ph.D., University of Oklahoma, Associate Professor, Physics. (1963)
- James M. Brinkman, Ed.D., University of Illinois, Associate Professor, Musical Studies. (1970)
- Martha Brookfield, B.S., Eastern Illinois University, Faculty Assistant, Botany. (1973) (Part-time)
- Robert E. Brown, M.A., Niagara University, Assistant Professor, English. (1969)
- Stephen Brown, M.S. in Ed., Eastern Illinois University, Instructor, Home Economics. (1974) (Part-time, spring semester)
- Rose Ann Bryce, D.Ed., University of Northern Colorado, Associate Professor, Business Education and Administrative Office Management. (1969)
- Ewen L. Bryden, Ph.D., The Ohio State University, Associate Professor, Recreation.* (1969)
- David H. Buchanan, Ph.D., University of Wisconsin, Assistant Professor, Chemistry. (1971)
- William F. Buckellew, Ed.D., University of Arkansas, Professor, Physical Education for Men.* (1962)
- Rodney Buffington, M.S. in Ed., Eastern Illinois University, Instructor, Art and Education. (1969)
- Donald Burcham, B.S., Eastern Illinois University, Faculty Assistant, Management. (1973) (Part-time)
- Ronald L. Butler, B.S., Eastern Illinois University, Faculty Assistant, Botany. (1973) (Part-time)
- William A. Butler, Ph.D., University of Illinois, Professor, Physics.* (1970)
- Robert Y. Butts, M.S., Virginia Polytechnic Institute and State University, Assistant Professor, Home Economics. (1971)

C

- Betty J. Campbell, M.S. in Ed., Eastern Illinois University, Assistant Professor, Business and Education. (1969)
- Eugene R. Carey, Ph.D., The University of Iowa, Associate Professor, Management. (1968)
- Joseph E. Carey, Ed.D., Indiana University, Professor, Elementary and Junior High School Education. (1958)
- Robert A. Carey, P.E.D., Indiana University, Professor and Coordinator of Graduate Studies, Physical Education for Men. (1953) (On sabbatical leave, fall semester)

- Gerald F. Carr, Ph.D., University of Wisconsin, Associate Professor, Foreign Languages. (1968)
- William B. Cash, Ph.D., Purdue University, Associate Professor, Speech-Communications. (1964)
- Gloria Ceide-Echevarria, Ph.D., University of Illinois, Associate Professor, Foreign Languages. (1965)
- Judith K. Chapman, B.S., The Ohio State University, Faculty Assistant, Home Economics. (1973) (Part-time)
- Max K. Chapman, Ph.D., Kent State University, Assistant Professor, Zoology. (1972)
- Stanley E. Chapman, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (1973) (Part-time)
- Dayton K. Chase, D.Ed., University of North Dakota, Professor, Business Education and Administrative Office Management. (1968)
- Carrie C. Chen, M.L.S., University of Pittsburgh, Assistant Professor, Library. (1968)
- Robert P. Chen, M.L.S., University of Pittsburgh, Assistant Professor, Library. (1968)
- Yung Ping Chen, Ph.D., University of Maryland, Professor, Political Science. (1966)
- Earl D. Christman, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Speech-Communications. (1973) (Part-time)
- Gary L. Clark, M.B.A., Eastern Illinois University, Instructor, Marketing. (1972)
- William M. Cloud, Ph.D., University of Wisconsin, Professor, Physics. (1962)
- H. Logan Cobb, Ph.D., University of Missouri, Professor, Foreign Languages. (1963)
- Harold G. Coe, Ph.D., Purdue University, Professor, Psychology.* (1965)
- Edward P. Colbert, Ph.D., Catholic University of America, Associate Professor, History. (1968)
- George M. Colby, M.A., University of Chicago, Assistant Professor, English. (1962)
- Wayne D. Coleman, D.Ed., University of Northern Colorado, Professor, Industrial Technology.* (1957)
- Joseph T. Connelly, Ed.D., University of Illinois, Professor, Political Science.* (1958)
- James R. Cook, Ph.D., Southern Illinois University, Assistant Professor, Health Education. (1970)
- Jerry L. Cooley, B.S. in Bus., Eastern Illinois University, Management. (1973) (Part-time)
- Nick Cooley, B.S. in Ed., Eastern Illinois University, Mathematics. (1973) (Part-time)
- Lewis H. Coon, Ed.D., Oklahoma State University, Professor, Mathematics. (1965)
- Alice M. Cooper, M.S., University of Illinois, Assistant Professor, Library. (1968)
- George K. Cooper, Ph.D., University of Michigan, Professor, Business Education and Administrative Office Management. (1962) (On leave, fall semester; on sabbatical leave, spring semester)
- Edward M. Corley, Ph.D., Oklahoma State University, Associate Professor, Economics.* (1967)
- Dennis Cougill, M.S. in Ed., Eastern Illinois University, Instructor, Elementary and Junior High School Education. (1973) (Part-time)
- Calvin Countryman, D.Ed., Pennsylvania State University, Professor, Art. (1945)
- Delmar Crabill, Ph.D., University of Illinois, Associate Professor, Mathematics. (1963)
- John M. Craft, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Laboratory School and Physical Education for Men. (1970)
- Francis H. Craig, Ph.D., Southern Illinois University, Associate Professor, Laboratory School. (1957)

- William J. Crane, Ph.D., Yale University, Professor, Educational Psychology and Guidance. (1961) (On sabbatical leave, fall semester)
- Laurence E. Crofutt, M.A., Indiana University, Assistant Professor, Botany. (1967)
- Joyce S. Crouse, Ph.D., Southern Illinois University, Associate Professor, Home Economics Education.* (1968)
- Richard L. Crouse, M.A., University of Wisconsin, Assistant Professor, Foreign Languages. (1966)
- George L. Cunningham, Ph.D., University of California, Berkeley, Professor, Chemistry. (1961)
- Carleton E. Curran, Ph.D., University of Wisconsin, Associate Professor, History. (1966)

D

- Roger L. Darding, Ph.D., University of Illinois, Assistant Professor, Botany. (1970)
- Rex V. Darling, Dir. P.E., Indiana University, Assistant Professor, Physical Education for Men. (1945)
- M. Marise Daves, Ed.D., New York University, Professor, Physical Education for Women. (1955)
- Joyce E. David, Adv. C., University of Illinois, Assistant Professor Physical Education for Women. (1968)
- Alvie D. Davis, Ph.D., University of California, Los Angeles, Assistant Professor, Physics. (1970) (On leave 1973-74)
- Jack W. Dean, M.S. in Ed., Northern Illinois University, Assistant Professor, Physical Education for Men. (1969)
- Vincent R. DeCarlo, M.S., University of Tennessee, Assistant Professor, Management. (1970) (On leave 1973-74)
- Garret W. DeRuiter, M.F.A., Southern Illinois University, Assistant Professor, Art. (1965)
- Marilyn DeRuiter, M.S.Ed., Southern Illinois University, Instructor, Laboratory School. (1972) (Part-time)
- Helen L. Devinney, A.M., Columbia University, Assistant Professor, Home Economics. (1943)
- Suhrit K. Dey, Ph.D., Mississippi State University, Assistant Professor, Mathematics. (1970)
- Alphonso J. DiPietro, Ph.D., George Peabody College for Teachers, Professor, Mathematics.* (1959)
- Gerhardt W. Ditz, Ph.D., Columbia University, Professor, Sociology-Anthropology. (1971)
- Patrick J. Docter, Ph.D., Purdue University, Associate Professor, Zoology. (1969)
- Martha J. Doemelt, M.S. in Ed., Eastern Illinois University, Assistant Professor, Laboratory School. (1968) (On leave, spring semester)
- Ernest E. Dolson, M.S., Indiana State University, Assistant Professor, Mathematics and Education. (1968)
- Donald Dolton, M.A., Oklahoma State University, Assistant Professor, English. (1966)
- John E. Dorn, B.A., University of Georgia, Faculty Assistant, Speech Pathology and Audiology. (1974) (Spring semester)
- Earl Doughty, Ph.D., Southern Illinois University, Associate Professor, Elementary and Junior High School Education. (1963)
- Ruth L. Dow, M.S., University of Illinois, Instructor Home Economics. (Part-time) (1969)
- Dale D. Downs, Ed.D., Indiana University, Associate Professor, Laboratory School. (1963)
- Martha I. Drew, M.Ed., University of Illinois, Assistant Professor, Management. (1958)

- Craig Dudeczik, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Speech-Communications. (1973) (Part-time)
- Walter N. Duffett, Ph.D., University of Colorado, Professor, Geography and Geology.* (1973)
- Richard A. Dulka, M.A., St. Louis University, Assistant Professor, Foreign Languages. (1968)
- Leonard Durham, Ph.D., University of Illinois, Professor, Zoology. (1955)
- Genevra Dvorak, M.S. in Ed., Eastern Illinois University, Assistant Professor, English. (1964)

E

- Hannah N. Eads, M.S. in Ed., Eastern Illinois University, Assistant Professor, Laboratory School. (1961)
- David W. Ebdon, Ph.D., University of Maryland, Associate Professor, Chemistry. (1968)
- John E. Ebinger, Ph.D., Yale University, Professor, Botany. (1963)
- Donald R. Eddy, M.A., University of Southern Mississippi, Lecturer, Physical Education for Men. (1968)
- Snowden L. Eisenhour, Ph.D., University of Illinois, Professor, Physics. (1961)
- E. Duane Elbert, Ph.D., Indiana University, Associate Professor, History. (1966)
- Carol E. Elder, Ph.D., University of Pittsburgh, Associate Professor, English. (1966)
- Betty G. Elliott, M.A., Ball State University, Instructor, Laboratory School. (1969)
- Thomas L. Elliott, D.Ed., University of Northern Colorado, Professor, Business Education and Administrative Office Management.* (1969)
- Jerry W. Ellis, Ph.D., Oklahoma State University, Associate Professor, Chemistry. (1966)
- Walter L. Elmore, M.A., University of Kentucky, Assistant Professor, Physical Education for Men and Education. (1948)
- Carl E. Emmerich, D.Ed., The Pennsylvania State University, Associate Professor, Art. (1962)
- Brenda Epling, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Speech Communications. (1973) (Part-time)
- Ruth Erckmann, M.A., University of South Dakota, Assistant Professor, Mathematics. (1963)
- Clifford H. Erwin, D.Ed., Indiana University, Professor, Industrial Arts Education. (1956)

F

- Clifford L. Fagan, Ph.D., The University of Iowa, Professor, Marketing.* (1949) (On sabbatical leave)
- Frances D. Falen, M.S.Ed., Kansas State University, Assistant Professor, Laboratory School. (1968)
- John R. Faust, Ph.D., University of North Carolina, Professor, Political Science. (1966) (On sabbatical leave, fall semester)
- Joyce Felstehausen, M.S.Ed., Eastern Illinois University, Instructor, Career Education Follow-Up Study. (1972)
- Pattie J. Fenn, M.A., George Peabody College for Teachers, Instructor, Business Education and Administrative Office Management. (1970)
- Max B. Ferguson, Ph.D., The University of Iowa, Professor, Zoology. (1950)
- Paul A. Filter, Ed.D., University of Nebraska, Associate Professor, Secondary Education and Foundations. (1970)
- Janice L. Flake, Ph.D., University of Illinois, Assistant Professor, Mathematics. (1969)

- Patricia Flaughter, M.S., Southern Illinois University, Instructor, Physical Education for Women. (1969)
- M. Lorraine Flower, Ph.D., University of Oregon, Professor, Physical Education for Women. (1965)
- Thomas W. Floyd, Ed.D., University of Illinois, Associate Professor, Elementary and Junior High School Education. (1967)
- Stephen Foor, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Botany. (1973) (Part-time)
- C. Dan Foote, Ph.D., University of Illinois, Associate Professor, Chemistry. (1965)
- John P. Ford, Ph.D., The Ohio State University, Associate Professor, Geography and Geology. (1966) (On sabbatical leave, spring semester)
- Delbert D. Foust, Adv. C., University of Illinois, Assistant Professor, Elementary and Junior High School Education. (1964)
- Arlen L. Fowler, Ph.D., Washington State University, Associate Professor, History. (1969)
- Ewell W. Fowler, Ed.D., University of Missouri, Professor, Industrial Arts Education. (1941)
- Frank A. Fraembs, M.S., University of Illinois, Assistant Professor, Zoology. (1964)
- Jimmie L. Franklin, Ph.D., University of Oklahoma, Associate Professor, History. (1970)
- Richard C. Funk, Ph.D., University of Kansas, Associate Professor, Zoology. (1965)

G

- E. G. Gabbard, Ph.D., The University of Iowa, Professor, Theater Arts.* (1947)
- Lucina P. Gabbard, M.A., The University of Iowa, Assistant Professor, English. (1968)
- James G. Gard, B.S., Nicholls State University, Faculty Assistant, Mathematics. (Part-time) (1972)
- Walter C. Garland, Ph.D., The Ohio State University, Professor, Educational Administration and Supervision. (1968)
- Donald P. Garner, Ph.D., Wayne State University, Professor, Speech. (1963)
- Mary L. Gaskill, M.S., University of Illinois, Assistant Professor, Elementary and Junior High School Education. (1973) (Part-time)
- James F. Giffin, Ph.D., Northwestern University, Professor, Business. (1947)
- Michael A. Goodrich, Ph.D., Pennsylvania State University, Professor, Zoology. (1964)
- Gerald L. Gossett, M.S., Indiana State University, Instructor, Physical Education for Men. (1969)
- Timothy D. Gover, M.S., University of Illinois, Assistant Professor, Management. (1963)
- Louis M. Grado, Ph.D., The University of Iowa, Professor, Elementary and Junior High School Education.* (1955)
- Grant G. Gray, Ph.D., University of South Dakota, Associate Professor, Botany. (1966)
- Carl K. Green, Ed.D., University of Houston, Professor, Educational Psychology and Guidance. (1958)
- Norma C. Green, M.Ed., University of Southern Mississippi, Assistant Professor, Physical Education for Women. (1966)
- William E. Green, Ph.D., The Ohio State University, Professor, Management.* (1966)
- L. Joan Gregg, B.S. in Ed., Illinois State University, Faculty Assistant, Laboratory School. (1972)
- Raymond V. Griffin, Ed.D., University of Northern Colorado, Professor, Laboratory School. (1958)

- Jerry Griffith, Ph.D., University of Illinois, Professor, Speech Pathology and Audiology. (1966)
- Waldo Grigoroff, M.S. in Ed., University of Illinois, Assistant Professor, History and Social Sciences and Education. (1961)
- Karl M. Grisso, M.A.L.S., Indiana University, Assistant Professor, Library. (1969)
- Dennis C. Gross, M.S.Ed., Southern Illinois University, Assistant Professor, Accountancy. (1966) (On leave, spring semester)
- John C. Guckert, Ph.D., The Ohio State University, Assistant Professor, Secondary Education and Foundations. (1968)
- Gary L. Gueldner, M.S.Ed., Eastern Illinois University, Assistant Professor, Accountancy. (1967)
- Paul O. Gurholt, M.S., University of Wisconsin, Assistant Professor, Laboratory School. (1955)

H

- Ken E. Hadwiger, Ph.D., University of Oklahoma, Associate Professor, Speech-Communications. (1964)
- Lavern M. Hamand, Ph.D., University of Illinois, Professor, History. (1957)
- Martha T. Hamand, A.B., University of Illinois, Faculty Assistant, English. (1964) (Fall semester)
- Julian J. Hamerski, Ph.D., University of the Pacific, Associate Professor, Chemistry. (1963)
- Robert R. Hancock, Ph.D., University of Illinois, Associate Professor, Mathematics and Education. (1965)
- E. Mac Hansen, Ph.D., West Virginia University, Assistant Professor, Political Science. (1973)
- Burton E. Hardin, D.M.Ed., University of Oklahoma, Associate Professor, Musical Performance. (1969)
- Robert Y. Hare, Ph.D., The University of Iowa, Professor, Musical Studies. (1965)
- Stanley G. Harris, B.A., University of Missouri, Assistant Professor, Foreign Languages. (1968)
- Charles R. Harrison, M.A., University of Oklahoma, Assistant Professor, Speech-Communications. (1969)
- Norma J. Harrison, M.S., University of Oklahoma, Instructor, Home Economics. (1969)
- Dorothy M. Hart, Ph.D., The University of Iowa, Professor, Physical Education for Women.* (1947)
- Betty R. Hartbank, M.S.L.S., University of Illinois, Assistant Professor, Library. (1956)
- Evelyn H. Haight, Ph.D., University of Illinois, Assistant Professor, English and Education. (1970)
- Edith M. Hedges, M.S., University of Wisconsin, Assistant Professor, Home Economics. (1966)
- Frank H. Hedges, M.S., University of Illinois, Assistant Professor, Zoology. (1965)
- Carol M. Helwig, Ed.D., University of Illinois, Assistant Professor, Elementary and Junior High School Education. (1969)
- Brenda S. Hemken, B.S.Ed., Eastern Illinois University, Faculty Assistant, Zoology. (1972) (Part-time)
- Willa M. Hemmons, Ph.D., Case Western Reserve University, Assistant Professor, Sociology-Anthropology. (1973)
- Giles L. Henderson, Ph.D., Indiana University, Assistant Professor, Chemistry. (1966)
- Robert E. Hennings, Ph.D., University of California, Berkeley, Professor, History. (1962)

- James A. Herauf, D.H.S., Indiana University, Associate Professor, Health Education.** (1965)
- Billy J. Heyduck, M.F.A., University of Illinois, Assistant Professor, Art. (1966)
- Harold L. Hillyer, M.M., University of Southern California, Assistant Professor, Musical Performance. (1972)
- Dan M. Hockman, M.S. in Ed., Eastern Illinois University, Assistant Professor, History and Social Sciences and Education. (1965)
- Mildred S. Hofacker, M.A., Western Reserve University, Instructor, Speech-Communications. (1956) (Spring semester)
- Arnold J. Hoffman, M.S., University of Illinois, Assistant Professor, Chemistry. (1945)
- Arthur C. Hoffman, Ph.D., University of Illinois, Associate Professor, Accountancy. (1966)
- Bertrand P. Holley, M.A., Northwestern University, Associate Professor, Management. (1946)
- Charles Hollister, Ph.D., University of Pennsylvania, Professor, Political Science. (1967)
- Gary L. Holt, Ph.D., West Virginia University, Assistant Professor, Psychology. (1972)
- Janet M. Hooks, Ph.D., University of Illinois, Associate Professor, Economics. (1963)
- Richard L. Hooser, Ph.D., Southern Illinois University, Assistant Professor, Health Education. (1965)
- Jon J. Hopkins, Ph.D., Pennsylvania State University, Professor, Speech-Communications. (1956)
- Mildred Hopkins, B.Ed., Northern Illinois University, Faculty Assistant, Laboratory School. (1973)
- Stephan M. Horak, Ph.D., University of Erlangen, Professor, History. (1965)
- Nai-chao Hsu, Ph.D., Washington University, Professor, Mathematics. (1966)
- Glen E. Hubele, Ph.D., University of Illinois, Assistant Professor, Educational Psychology and Guidance. (1968)
- Richard L. Hummel, M.A., Indiana University, Assistant Professor, Sociology-Anthropology. (1969)
- Lawrence B. Hunt, Ph.D., University of Wisconsin, Associate Professor, Zoology. (1967)
- Robert W. Hussey, D.Ed., University of Northern Colorado, Associate Professor, Physical Education for Men. (1958)
- Frank E. Hustmyer, Ph.D., University of Cincinnati, Professor, Psychology. (1969)
- Marjorie T. Hutton, M.S. in Ed., Eastern Illinois University, Instructor, Speech-Communications. (1974) (Spring semester)
- Virginia W. Hyett, A.M., University of Missouri, Assistant Professor, Art. (1944)

I

- Bill V. Isom, M.S. in Ed., Southern Illinois University, Assistant Professor, Library. (1964)

J

- Ann E. Jackson, D.Ed., Arizona State University, Professor, Enrichment of Teacher Competencies Project. (1958)
- Gordon L. Jackson, M.A., Eastern Michigan University, Assistant Professor, English. (1970)
- Louise Jackson, M.A., Eastern Michigan University, Instructor, Psychology. (1973)

- Jesse E. James, M.S.Ed., Illinois State University, Instructor, Physical Education for Men. (1971)
- Judy James, M.A., University of North Carolina, Instructor, Zoology. (1973) (Part-time)
- William S. James, Ph.D., University of Tennessee, Assistant Professor, Zoology. (1970)
- John E. Jester, B.S.Ed., Eastern Illinois University, Faculty Assistant, Botany. (1972) (Part-time)
- Charles H. Johnson, J.D., University of Wisconsin, Associate Professor, Management. (1967)
- Dorothe L. Johnson, Adv. C., University of Illinois, Assistant Professor, Recreation. (1968)
- Fredric Johnson, M.A., Wayne State University, Assistant Professor, Musical Studies. (1973)
- June Johnson, D.M.A., University of Illinois, Professor, Musical Performance. (1960) (Sabbatical leave Spring Semester)
- Annie Lee Jones, Ph.D., University of Michigan, Assistant Professor, Recreation. (1972)
- Austin Jones, M.B.A., Eastern Illinois University, Instructor, Accountancy. (1969)
- George H. Jones, D. Phil., Oxford University, Professor, History. (1966)
- Robert W. Jordan, Ph.D., Washington University, Assistant Professor, Chemistry. (1966)

K

- Sylvia Y. Kaplan, M.A.L.S., Rosary College, Assistant Professor, Library Science. (1970)
- Dennis F. Karr, B.S.Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (Part-time) (1972)
- Robert H. Karraker, Ph.D., Iowa State University, Associate Professor, Chemistry. (1967)
- Tom Katsimpalis, Ed.D., University of Northern Colorado, Professor, Physical Education for Men. (1959)
- Ellen A. Keiter, M.S., University of Maryland, Instructor, Chemistry. (1973)
- Richard L. Keiter, Ph.D., University of Maryland, Associate Professor, Chemistry. (1969)
- John R. Keough, M.A., Marquette University, Instructor, Theatre Arts. (1971)
- Charles Keller, M.A., University of California, Assistant Professor, Sociology-Anthropology. (1970)
- Leo L. Kelly, Ph.D., Purdue University, Professor, Foreign Languages. (1968)
- William D. Kendrick, B.S., Eastern Illinois University, Faculty Assistant, Chemistry. (1973)
- John R. Keough, M.A., Marquette University, Instructor, Theater Arts. (1971)
- Nancy O. Keppler, M.S., University of Illinois, Instructor, Home Economics. (1968)
- William J. Keppler, Ph.D., University of Illinois, Professor, Zoology. (1965)
- Jane Key, M.S., Southern Illinois University, Instructor, Laboratory School. (1973)
- Rhoderick E. Key, M. Mus. Ed., Southern Illinois University, Assistant Professor, Musical Studies. (1966)
- Eun-Ja Kim, Ph.D., University of Southern Mississippi, Assistant Professor, Elementary and Junior High School Education. (1973)
- Ha Poong Kim, Ph.D., Boston University, Associate Professor, Philosophy.* (1967)
- Paul F. Kirby, Ph.D., University of Pittsburgh, Professor, Foreign Languages. (1964)
- Judd Kline, Ph.D., University of Minnesota, Professor, English. (1948)
- Edna Kniskern, M.S. in Ed., Eastern Illinois University, Instructor, Zoology. (1973) (Part-time)

- Verne B. Kniskern, Ph.D., University of Michigan, Professor, Zoology. (1950)
 Cary I. Knoop, M.F.A., University of Illinois, Assistant Professor, Art. (1953)
 Eric N. Koch, M.S., University of Illinois, Assistant Professor, Physics. (1972) (Substitute)
 Raymond L. Koch, Ph.D., University of Minnesota, Associate Professor, History. (1966)
 Karl-Ludwig Konrad, M.A., University of Washington, Instructor, Foreign Languages. (1970)
 Lloyd L. Koontz, M.A., University of Arkansas, Assistant Professor, Mathematics. (1963)
 Fethi M. Kopuz, (Bachelor's), Faculty of Letters, Istanbul, Turkey, Associate Professor, Musical Performance. (1967)
 Keith T. Kowalczyk, B.S., Eastern Illinois University, Faculty Assistant, Mathematics. (1973) (Part-time)
 Eugene B. Krehbiel, Ph.D., Kansas State University, Professor, Zoology. (1963)
 James W. Krehbiel, Ph.D., Indiana University, Associate Professor, Musical Studies. (1965)
 Claire E. Krukenberg, Ph.D., University of Illinois, Assistant Professor, Mathematics. (1968)
 June M. Krutza, Ph.D., The Ohio State University, Professor, Art. (1952)
 Carol C. Ku, M.L.S., University of Pittsburgh, Assistant Professor, Library. (1967)

L

- Oren F. Lackey, M.S., University of Illinois, Assistant Professor, Botany. (1963)
 Jon M. Laible, Ph.D., University of Illinois, Associate Professor, Mathematics. (1964)
 Bert A. Landes, M.A.T., Colorado State University, Assistant Professor, Botany and Zoology and Education. (1967)
 Floyd A. Landsaw, Ed.D., Indiana University, Assistant Professor, Instructional Media. (1965)
 M. Marjorie Lanman, M.Ed., University of Illinois, Instructor, Business and Education. (1961)
 Harry R. Larson, Ed.D., University of Northern Colorado, Associate Professor, Secondary Education and Foundations.* (1960)
 Herbert Laskey, Ph.D., New York University, Associate Professor, History. (1966)
 Lynnette J. Lasky, M.S.L.S., Eastern Illinois University, Assistant Professor, Library. (1973)
 Abdul Lateef, Ph.D., Southern Illinois University, Associate Professor, Political Science. (1968)
 Nancy E. Laurent, M.S. in Ed., Eastern Illinois University, Faculty Assistant, Life Sciences. (1973) (Part-time)
 Dorothy Lawson, M.S. in Ed., Eastern Illinois University, Instructor, Career Education Curriculum Project. (1969)
 Richard W. Lawson, M.S.L.S., Western Reserve University, Assistant Professor, Library Science. (1964)
 Sharon Lazenby, Ph.D., University of Illinois, Associate Professor, English. (1972)
 Walter S. Lazenby, Jr., Ph.D., Indiana University, Professor, English. (1969)
 Ronald M. Leathers, M.S., Indiana State University, Assistant Professor, English and Education. (1965)
 John W. LeDuc, Ph.D., University of Illinois, Associate Professor, Mathematics. (1965)
 Peter R. Leigh, Ph.D., University of Southern California, Associate Professor, Political Science. (1969)

- Roland Leipholz, Ed.D., University of Michigan, Associate Professor, Art. (1955)
 Genie Lenihan, M.S., University of Illinois, Instructor, Follow-Up Evaluation Project. (1972) (Part-time)
 Patrick M. Lenihan, Ph.D., University of Wisconsin, Associate Professor, Economics. (1967)
 Michael B. Leyden, D.Ed., University of Florida, Assistant Professor, Elementary and Junior High School Education. (1970)
 Maurice C. Libbey, M.S., Columbia University, Assistant Professor, Library. (1967)
 Mary R. Lindahl, B.A., Augustana College, Instructor, Management. (1973) (Part-time)
 John W. Linn, M.A., San Diego State College, Assistant Professor, Art. (1967)
 Inez B. Livingston, Ph.D., The Ohio State University, Professor, Psychology. (1968)
 Jerome B. Long, Ph.D., Fordham University, Associate Professor, Philosophy. (1966)
 Arthur J. Looby, Ed.D., University of Missouri, Professor, Psychology. (1959)¹
 Robert Lorensen, M.A., Indiana University, Assistant Professor, Library. (1971)
 Walter S. Lowell, Ed.D., Michigan State University, Professor, Physical Education for Men. (1961)

M

- Fred W. MacLaren, Ph.D., University of Oklahoma, Associate Professor, Elementary and Junior High School Education. (1965)
 Joanne Magalis, M.A., University of Illinois, Assistant Professor, Sociology-Anthropology. (1971)
 John N. Maharg, D.Ed., University of Illinois, Professor, Musical Performance. (1958)
 Harold A. Malehorn, Ph.D., Northwestern University, Associate Professor, Elementary and Junior High School Education. (1970)
 Maurice W. Manbeck, Ph.D., University of Minnesota, Assistant Professor, Psychology. (1957)
 W. Evan Mannakee, M.A., Northwestern University, Instructor, Theater Arts. (1969) (On leave)
 Elwyn L. Martin, Ph.D., University of Michigan, Associate Professor, Geography and Geology. (1956)
 Joseph M. Martin, M.M.Ed., East Carolina University, Assistant Professor, Musical Performance. (1969)
 Jacinto C. Martinez, M.S., East Texas State University, Assistant Professor, Zoology. (1966)
 Thomas O. Maruna, M.B.A., Ohio University, Instructor, Marketing. (1972)
 Merrilie Mather, Ph.D., Boston University, Professor, English. (1951)
 Gerhard C. Matzner, Ph.D., Cornell University, Professor, Educational Administration and Supervision (1955)
 David J. Maurer, Ph.D., The Ohio State University, Associate Professor, History. (1962)
 Jaime A. Maya, Ph.D., University of Arizona, Associate Professor, Zoology. (1966)
 George A. McArthur, M.S. in Ed., Eastern Illinois University, Instructor, Laboratory School. (1973) (Part-time)
 William J. McCabe, M.A., The University of Iowa, Assistant Professor, Physical Education for Men. (1962)
 Beryl F. McClerren, Ph.D., Southern Illinois University, Professor, Speech-Communications. (1964)

¹ Died November 7, 1973.

- Sally L. McCluskey, M.A., University of Arkansas, Assistant Professor, English. (1972)
- Frances W. McColl, M.A., Columbia University, Assistant Professor, English. (1957)
- Guy R. McConnell, B.S., Eastern Illinois University, Faculty Assistant, Zoology. (1972) (Part-time)
- Claude R. McCullough, B.S., Indiana State University, Faculty Assistant, Industrial Technology. (1973)
- Jacqueline McCullough, M.A., Indiana State University, Instructor, Home Economics. (1972)
- Gail B. McCutcheon, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Laboratory School. (1973) (Part-time)
- Walter H. McDonald, Ph.D., University of Illinois, Professor, Geography and Geology. (1958)
- John F. McElligott, Ph.D., New York University, Assistant Professor, History. (1967) (On sabbatical leave)
- Harland G. McFarland, M.S., Southern Illinois University, Assistant Professor, Physical Education for Men and Education. (1970)
- Ralph Y. McGinnis, Ph.D., University of Denver, Professor, Speech-Communications. (1972)
- June McGown, M.Ed., University of Southern Mississippi, Instructor, Psychology. (1973) (Part-time)
- William P. McGown, Ph.D., University of Southern Mississippi, Assistant Professor, Psychology. (1970)
- Donald L. McKee, M.A.T., University of Illinois, Assistant Professor, Foreign Language and Education. (1961)
- F. Raymond McKenna, Ed.D., Harvard University, Professor, Secondary Education and Foundations. (1953) (On sabbatical leave, fall semester)
- Donald E. McMullen, M.A., Northern Illinois University, Assistant Professor, Marketing. (1970)
- Val G. McPeak, M.S. in Ed., Eastern Illinois University, Instructor, Physical Education for Men. (1970)
- Jerry W. McRoberts, M.A., University of Illinois, Assistant Professor, Art. (1963)
- J. Earl McSwain, M.A., University of Alabama, Assistant Professor, Speech-Communications. (1973)
- Robert E. Meier, Ph.D., University of Illinois, Associate Professor, Management. (1964)
- Evelyn Melloh, Ph.D., Southern Illinois University, Professor, Home Economics. (1970)
- Floyd E. Merritt, M.A., University of Kansas, Assistant Professor, Speech-Communications. (1970)
- John E. Mertes, D.B.A., Indiana University, Professor, Marketing and Coordinator of Graduate Business Studies. (1969)
- Douglas K. Meyer, Ph.D., Michigan State University, Assistant Professor, Geography and Geology. (1970)
- Roy A. Meyerholtz, Ed.D., University of Northern Colorado, Associate Professor, Mathematics. (1961)
- Martin M. Miess, Ph.D., Universitaet Innsbruck, Professor, Foreign Languages.* (1956)
- Beverly B. Miller, M.S.L.S., University of Illinois, Assistant Professor, Library Science. (1967)
- Charles E. Miller, Jr., M.S., Eastern Illinois University, Faculty Assistant, Physics. (1967)
- Karen Miller, B.S. in Ed., Eastern Illinois University, Instructor, Laboratory School. (1973)

- William D. Miller, Ph.D., The University of Iowa, Associate Professor, English. (1963)
- Alan K. Millis, B.S., Eastern Illinois University, Faculty Assistant, Life Sciences. (1973) (Part-time, fall semester)
- Lynn E. Miner, Ph.D., University of Illinois, Professor, Speech Pathology and Audiology. (1963)
- William D. Miner, Ph.D., Indiana University, Professor, History. (1950)
- Richard D. Minick, B.S., Eastern Illinois University, Faculty Assistant, Mathematics. (1973) (Part-time)
- William J. Mitchell, M.A., The University of Iowa, Assistant Professor, Art. (1970)
- Al R. Moldroski, M.A., Michigan State University, Assistant Professor, Art. (1963)
- Donald L. Moler, Ph.D., University of Kansas, Professor, Educational Psychology and Guidance.* (1951)
- Edward O. Moll, Ph.D., University of Utah, Associate Professor, Zoology. (1968)
- John T. Moore, D.B.A., Indiana University, Professor, Marketing.** (1969)
- Neil E. Moore, Ed.S., University of Northern Colorado, Assistant Professor, Physical Education for Men. (1970)
- Shirley B. Moore, Ed.D., University of Northern Colorado, Associate Professor, Psychology. (1970)
- Herbert O. Morice, Ed.D., University of Houston, Professor, Psychology. (1967)
- Donald B. Morlan, Ph.D., Purdue University, Associate Professor, Speech-Communications.* (1969)
- James D. Motley, M.B.A., Eastern Illinois University, Instructor, Accountancy. (1973)
- John E. P. Mullally, M.A., Middlebury College, Assistant Professor, Foreign Languages. (1968)
- Betty G. Muller, M.A., East Carolina College, Assistant Professor, Physical Education for Women. (1965)
- Byron E. Munson, Ph.D., University of Illinois, Professor, Sociology-Anthropology. (1967)
- Ahmad Murad, Ph.D., University of Wisconsin, Professor, Economics. (1963)
- David H. Murphy, M.S., Indiana State University, Assistant Professor, Botany and Zoology and Education. (1968)
- Louise Murray, Ph.D., Northwestern University, Professor, English. (1951) (On sabbatical leave, spring semester)
- Jack Murry, Ed.M., University of Illinois, Assistant Professor, Business Education and Administrative Office Management. (1965)
- Jeanette Murry, M.S. in Ed., Eastern Illinois University, Assistant Professor, Business and Education. (1969)

N

- Jagdish L. Nanda, Ph.D., Indiana University, Professor, Mathematics. (1964)
- Sat P. Narang, M.S.L.S., University of Wisconsin, Assistant Professor, Library. (1969)
- Joel E. Naumann, Ph.D., University of Utah, Assistant Professor, Musical Studies. (1973)
- Shirley W. Neal, Ph.D., University of Illinois, Assistant Professor, English. (1968)
- Allen R. Neff, M.A., The Ohio State University, Assistant Professor, English. (1967)
- Howard F. Nelms, M.Ed., University of Illinois, Assistant Professor, Industrial Arts Education. (1970)
- James E. Nicely, M.A., Indiana University, Assistant Professor, Speech Pathology and Audiology. (1970)
- Lawrence R. Nichols, Ph.D., Duke University, Professor, History. (1962)

- Thomas H. Nickels, M.S., Purdue University, Assistant Professor, Economics. (1968)
 Henry C. Nilsen, M.S., University of Illinois, Assistant Professor, Zoology. (1967)
 Carol J. Noland, M.S. in Ed., Eastern Illinois University, Instructor, Home Economics. (1972)
 Janet L. Norberg, Ph.D., The University of Iowa, Professor, Speech-Communications. (1963)
 Harold D. Nordin, M.A., Northern Illinois University, Assistant Professor, Economics. (1967)
 John T. North, Ed.D., Indiana University, Associate Professor, Secondary Education and Foundations. (1970)

O

- Maynard O'Brien, Ed.D., University of Illinois, Professor, Physical Education for Men. (1946)
 Marilyn S. Oglesby, M.S. in Ed., Eastern Illinois University, Instructor, Management. (1969)
 Kevin J. O'Keefe, Ph.D., New York University, Assistant Professor, History. (1970)
 Geraldina Ortiz-Muniz, Ph.D., Florida State University, Professor, Foreign Languages. (1962)
 Maria M. Ovcharenko, Ph.D., Charles University, Professor, Foreign Languages. (1964)
 Paul D. Overton, Ed.D., University of Northern Colorado, Professor, Educational Psychology and Guidance. (1962)
 Barbara L. Owens, Ed.S., Eastern Illinois University, Assistant Professor, Home Economics and Education. (1969)
 John W. Oxley, M.B.A., Eastern Illinois University, Instructor, Management. (1973)
 S. Jayne Ozier, M.S.Ed., Eastern Illinois University, Instructor, Home Economics. (1970)

P

- Ronald Paap, A.M., University of Northern Colorado, Assistant Professor, Physical Education for Men. (1963)
 Raymond F. Padovan, M.S., Southern Illinois University, Assistant Professor, Physical Education for Men. (1966)
 James E. Palmer, Ph.D., University of Missouri, Associate Professor, Geography and Geology. (1969)
 Anne Marie Pasquarelli, M.A., Purdue University, Instructor, English. (1972)
 Patricia A. Patrick, B.S.Ed., Eastern Illinois University, Faculty Assistant, Life Sciences and Laboratory School. (1972)
 James Patterson, Jr., M.A., California State College, Assistant Professor, Art. (1969)
 J. Robert Pence, Ed.D., University of Illinois, Professor Musical Studies. (1951)
 Stuart L. Penn, Ph.D., Yale University, Professor, Philosophy. (1960)
 John C. Peterson, Ph.D., The Ohio State University, Assistant Professor, Mathematics. (1969)
 Marla Peterson, Ph.D., The Ohio State University, Assistant Professor, Enrichment of Teacher Competencies Project. (1970)
 Nicholas C. Petridis, Ph.D., University of Chicago, Professor, Mathematics. (1966)
 Charles E. Pettypool, M.A., The Ohio State University, Assistant Professor, Mathematics. (1957)
 Steve Phillips, M.S., The University of Iowa, Assistant Professor, Management. (1971)

- Gerald Pierson, M.S. in Ed., Eastern Illinois University, Assistant Professor, History and Social Sciences and Education. (1963)
 Evelyn Pinther, M.S., Eastern Illinois University, Faculty Assistant, Home Economics. (1973) (Part-time)
 Harold O. Pinther, M.S., University of Wisconsin, Assistant Professor, Physical Education for Men. (1954)
 Raymond A. Plath, Ph.D., University of Wisconsin, Professor, Economics. (1946)
 Frances M. Pollard, Ph.D., Western Reserve University, Professor, Library Science.* (1963)
 Fredrick Preston, Jr., Ph.D., University of Illinois, Assistant Professor, English and Education. (1972)
 Dalias A. Price, Ph.D., University of Wisconsin, Professor, Geography and Geology. (1958)
 Freda Proctor, M.A., Eastern Illinois University, Instructor, Musical Performance. (1973)

Q

- Ruth S. Queary, M.S. in Ed., Eastern Illinois University, Assistant Professor, Mathematics. (1961)
 Theodore K. Quinn, Ph.D., The University of Iowa, Assistant Professor English. (1972)
 Keith H. Quirk, M.S.Ed., Northern Illinois University, Assistant Professor, Elementary and Junior High School Education. (1972)
 James R. Quivey, Ph.D., Northern Illinois University, Associate Professor, English. (1969)

R

- Anola E. Radtke, M.M., Indiana University, Assistant Professor, Laboratory School. (1964)
 Mushfequr Rahman, Ph.D., McGill University, Professor, Mathematics. (1967)
 Mary F. Ramsey, Ph.D., Southern Illinois University, Assistant Professor, Elementary and Junior High School Education. (1973)
 Jack C. Rang, Ph.D., Northwestern University, Associate Professor, Theatre Arts. (1969)
 Mary R. Rang, M.A., Eastern Illinois University, Instructor, Theater Arts. (1973)
 Evelyn N. Ransom, M.A., New Mexico Highlands University, Assistant Professor, English. (1970)
 Paladugu V. Rao, M.S.L.S., University of Illinois, Assistant Professor, Library. (1968) (On sabbatical leave, spring semester)
 Hugh C. Rawls, Ph.D., University of Alabama, Professor, Zoology. (1956)
 Mary Jo Read, Ph.D., University of Wisconsin, Professor, Geography and Geology. (1965)
 John J. Rearden, Ph.D., Oklahoma State University, Associate Professor, Psychology. (1968)
 Phyllis L. Rearden, M.S.L.S., University of Illinois, Instructor, Library. (1970)
 John D. Reed, M.A., University of Missouri, Instructor, English. (1972)
 James J. Reynolds, D.Ed., Indiana University, Associate Professor, Instructional Media. (1969)
 Paul J. Reynolds, Jr., M.B.A., Bowling Green State University, Instructor, Management. (1969)
 Paula Reynolds, M.S., Baylor University, Instructor, English. (1973)
 Jack J. Richardson, Ph.D., Southern Illinois University, Professor, Health Education.* (1965) (On sabbatical leave, spring semester)

- Rachael G. Richardson, M.S. in Ed., Eastern Illinois University, Assistant Professor, English (1963)
- Bernie Ricono, M.S., Indiana University, Assistant Professor, Physical Education for Men. (1972)
- Bill T. Ridgeway, Ph.D., University of Missouri, Professor, Zoology. (1966) (On sabbatical leave, spring semester)
- Leta Ridgeway, M.S.L.S., Eastern Illinois University, Instructor, Library. (1971) (Part-time)
- Harland A. Riebe, Ed.D., University of Colorado, Professor, Health Education. (1950)
- Garland T. Riegel, Ph.D., University of Illinois, Professor, Zoology.* (1948)
- Helen J. Riley, M.S. in Ed., Illinois State University, Assistant Professor, Physical Education for Women. (1965)
- Lawrence A. Ringenberg, Ph.D., The Ohio State University, Professor, Mathematics. (1947)
- William G. Riordan, Ph.D., Western Reserve University, Professor, Recreation. (1964)
- John L. Roberts, Ph.D., The University of Iowa, Professor, Management. (1965)
- James H. Robertson, D.Ed., University of Illinois, Professor, Music and Education. (1956)
- Kathryn W. Robertson, M.S. in Ed., Eastern Illinois University, Assistant Professor, English. (1965)
- Donald L. Rogers, D.Ed., University of Nebraska, Associate Professor, Laboratory School. (1963)
- Richard E. Rogers, Ph.D., Indiana University, Associate Professor, English (1969)
- George W. Rommel, Ph.D., Northwestern University, Professor, English. (1953)
- Jerome J. Rooke, M.S., Northern Illinois University, Assistant Professor, Accountancy. (1965)
- Janet C. Ruddell, M.S. in Ed., Eastern Illinois University, Instructor, Career Education Curriculum Project. (1970) (Part-time)
- Paul F. Ruddell, M.S., Purdue University, Instructor, Physics. (1967)
- Al G. Rundle, M.A., University of Denver, Assistant Professor, Speech Communications. (1963)
- Wanda E. Ruyle, Adv. C., University of Illinois, Assistant Professor, Elementary and Junior High School Education. (1969)
- Allen W. Rydinsky, M. in Ed., University of Pittsburgh, Assistant Professor, Chemistry, Physics and Education. (1973)

S

- Robert E. Saltmarsh, Ed.D., Indiana University, Assistant Professor, Educational Psychology and Guidance. (1969)
- Raymond J. Samp, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Botany. (1973) (Part-time)
- Carol Sanders, M.S. in Ed., Wisconsin State University, Instructor, Career Education Resource Laboratory. (1973)
- George P. Sanders, M.M., Yale University, Assistant Professor, Musical Performance. (1964) (On sabbatical leave)
- J. W. Sanders, Ed.D., University of New Mexico, Assistant Professor, Physical Education for Men. (1970)
- Karen J. Sanders, M.M., University of Wisconsin, Assistant Professor, Musical Performance. (1966) (On leave)
- Mauderie H. Saunders, Ph.D., University of Oklahoma, Professor, Psychology. (1970) (On leave)

- John E. Schaefer, M.S., University of Wisconsin, Assistant Professor, Physical Education for Men. (1969)
- Lahron H. Schenke, Ed.D., Teachers College, Columbia University, Professor, Elementary and Junior High School Education. (1963)
- Pamela Schenke, M.S.Ed., Eastern Illinois University, Instructor, Laboratory School. (1972)
- Wolfgang T. Schlauch, Ph.D., University of Freiburg, Professor, History.* (1969)
- Cinda L. Schmidt, B.S.Ed., Eastern Illinois University, Faculty Assistant, Laboratory School. (1972)
- Joan K. Schmidt, M.S., Northern Illinois University, Instructor, Physical Education for Women and Education. (1970)
- Gene W. Scholes, Ph.D., Southern Illinois University, Associate Professor, Instructional Media.* (1966)
- Frederick R. Schram, Ph.D., University of Chicago, Associate Professor, Zoology. (1968)
- Stella B. Schulz, Ph.D., University of Chicago, Associate Professor, Home Economics. (1973)¹
- John J. Schuster, M.S., University of Illinois, Assistant Professor, Laboratory School. (1973)
- Anthony E. Schwaller, M.S., Stout State University, Instructor, Industrial Technology. (1970)
- Thomas E. Scism, Ph.D., University of North Carolina, Associate Professor, Political Science. (1970)
- Colonel W. Scott, B.S., Marshall University, Instructor, Physical Education for Men. (1968)
- Mary Elizabeth Scott, M.S. in L.S., Columbia University, Associate Professor, Library. (1948)
- William W. Scott, Ph.D., University of Michigan, Professor, Botany.* (1968)
- Phillip M. Settle, M.F.A., University of Illinois, Assistant Professor, Laboratory School. (1957)
- Carl N. Sexton, P.E.D., Indiana University, Associate Professor, Health Education. (1966)
- Kathlene L. Shank, M.S. in Ed., Eastern Illinois University, Assistant Professor, Elementary and Junior High School Education. (1970)
- Maurice D. Shepherd, M.A.T., Indiana University, Assistant Professor, Chemistry and Physics and Education. (1967) (On sabbatical leave)
- Rose M. Shepherd, M.S., Southern Illinois University, Instructor, English. (1970)
- Paul L. Shriver, M.A., Bradley University, Instructor, Psychology. (1969)
- Marian H. Shuff, Ed.D., University of Kansas, Professor, Secondary Education and Foundations. (1966)
- Robert V. Shuff, Ph.D., University of Minnesota, Professor, Educational Administration and Supervision.* (1964)
- Carl E. Shull, Ph.D., The Ohio State University, Professor, Art. (1947)
- Bryan Shuster, M.A., Northeast Missouri State College, Assistant Professor, Industrial Arts Education. (1968)
- Richard J. Sidwell, Ph.D., University of Utah, Assistant Professor, Economics. (1970)
- Henry Silverstein, M.L.S., M.A., New York University, Assistant Professor, English (1965)
- Delbert R. Simon, D.M.A., The University of Iowa, Associate Professor, Musical Performance. (1969)
- Peter J. Slavish, M.Ed., Pennsylvania State University, Assistant Professor, Art. (1970)

¹ Resigned September 30, 1973.

- Allen W. Smith, Ph.D., Indiana University, Assistant Professor, Economics. (1970)
 Calvin N. Smith, Ph.D., Purdue University, Associate Professor, Speech-Communications. (1965)
 Carolyn G. Smith, M.N., Western Reserve University, Assistant Professor, Health Education. (1952)
 Catherine A. Smith, D.Mus., Florida State University, Professor, Musical Performance. (1949)
 Jerome V. Smith, Ph.D., Louisiana State University, Assistant Professor, Sociology-Anthropology. (1972)
 Norman D. Smith, Ph.D., Indiana University, Assistant Professor, Chemistry. (1965)
 P. Scott Smith, Ph.D., Cornell University, Professor, Physics. (1953)
 Richard L. Smith, Ph.D., University of Texas, Associate Professor, Botany. (1965)
 Robert J. Smith, Ph.D., The University of Iowa, Professor, Chemistry. (1955)
 Donald W. Smitley, Ed.D., University of Illinois, Associate Professor, Educational Administration and Supervision. (1970)
 James Smitley, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Laboratory School. (1973)
 Paula Snyder, B.S., Michigan State University, Faculty Assistant, Home Economics. (1973) (Part-time)
 Robert C. Snyder, D.M.A., University of Missouri, Associate Professor, Musical Performance. (1967)
 Robert E. Snyder, Ph.D., The University of Iowa, Associate Professor, Musical Performance. (1969)
 Margaret Soderberg, Ph.D., Washington University, Professor, Political Science. (1962)
 Robert B. Sonderman, Ed.D., University of Missouri, Professor, Industrial Arts Education.* (1956)
 Walter Sorge, Ed.D., Columbia University, Associate Professor, Art.* (1970)
 Roland D. Spaniol, Ph.D., The University of Iowa, Professor, Management. (1960)
 John M. Speer, Ph.D., The Ohio State University, Associate Professor, Botany. (1969)
 Joyce A. Spencer, B.S., Eastern Illinois University, Faculty Assistant, Career Education Resource Laboratory. (1973) (Part-time)
 Walter B. Spencer, Ph.D., Baylor University, Assistant Professor, Psychology. (1971)
 Joan E. Squire, M.M., University of Illinois, Assistant Professor, Musical Performance. (1969). (On leave)
 Henry A. Stackhouse, Ed.D., University of Missouri, Professor, Psychology. (1960)
 Ray V. Stapp, D.Ed., Pennsylvania State University, Professor, Art. (1964)
 Sidney R. Steele, Ph.D., The Ohio State University, Professor, Chemistry.* (1947)
 M. Lee Steinmetz, Ph.D., Brown University, Professor, English. (1959)
 Robert W. Sterling, M.S. in Ed., Eastern Illinois University, Assistant Professor, History. (1956)
 Donald L. Stevens, Ph.D., Michigan State University, Assistant Professor, Management. (1973) (Part-time)
 Frank C. Stokes, Ph.D., University of Illinois, Assistant Professor, English. (1969)
 Victor Stoltzfus, Ph.D., Pennsylvania State University, Assistant Professor, Sociology-Anthropology.* (1970)
 Sue B. Stoner, M.S. in Ed., Eastern Illinois University, Assistant Professor, Psychology. (1965)
 Alice C. Stoughton, M.S., University of Oregon, Instructor, Physical Education for Women. (1971)
 Gayle G. Strader, M.Ed., University of Illinois, Assistant Professor, Laboratory School. (1965)

- Clifford E. Strandberg, Ed.D., Texas A & M University, Professor, Industrial Arts Education. (1965)
 Craig M. Stroh, M.A., University of Oregon, Assistant Professor, Economics. (1970)
 Frederick G. Stubbs, Ph.D., University of Illinois, Associate Professor, Management. (1972)
 Frieda S. Stute, Ph.D., University of Illinois, Associate Professor, Sociology-Anthropology. (1966)
 Barbara Sullivan, M.S., University of Illinois, Assistant Professor, Musical Performance. (1974) (Part-time, spring semester)
 Gerald E. Sullivan, Ph.D., University of Minnesota, Professor, Theater Arts. (1969)
 Robert N. Sullivan, Ph.D., Georgia State College, Associate Professor, Business Education and Administrative Office Management. (1964)
 Francis E. Summers, D.Ed., University of Illinois, Associate Professor, Psychology. (1965)
 William Sunderman, J.D., University of Illinois, Assistant Professor, Management. (1972) (Part-time)
 L. Donald Sundheim, M.A., University of Minnesota, Assistant Professor, Foreign Languages. (1968)
 Janet Sutherland, M.S.Ed., Eastern Illinois University, Instructor, Enrichment of Teacher Competencies Project. (1971)
 Kenneth R. Sutton, Ph.D., University of New Mexico, Assistant Professor, Secondary Education and Foundations. (1970)
 Richard Swartzbaugh, Ph.D., The Ohio State University, Assistant Professor, Sociology-Anthropology. (1972)
 Charles Switzer, Ph.D., Michigan State University, Professor, English. (1966)
 Donald S. Swope, M.S., Columbia University, Assistant Professor, Library. (1964)
 Mary Ruth Swope, Ed.D., Columbia University, Professor, Home Economics. (1962)
 P. Rex Syndergaard, Ph.D., St. Louis University, Professor, History. (1956)
 B. Joseph Szerenyi, D.Pol.S., Elizabeth University, Professor, Library. (1967)

T

- Henry A. Taitt, M.S., University of Delaware, Assistant Professor, Physics. (1965)
 Nancy P. Taitt, M.A., University of Delaware, Instructor, Mathematics. (1969) (Substitute)
 Ellwood R. Tame, Ph.D., University of Denver, Professor, Speech-Communications. (1965)
 Jimmy R. Tammen, M.S.Ed., Eastern Illinois University, Instructor, Industrial Technology. (1971)
 Virginia A. Tate, M.Ed., University of Missouri, Assistant Professor, Laboratory School. (1952)
 Carl M. Tausig, Ed.D., University of Illinois, Associate Professor, Enrichment of Teacher Competencies Project. (1970)
 Frank S. Taylor, Ph.D., Boston University, Associate Professor, Philosophy. (1965)
 Virginia J. Tefft, Ed.D., University of New Mexico, Associate Professor, Physical Education for Women. (1969)
 Francis L. Teller, M.A., Teachers College, Columbia University, Assistant Professor, Physical Education for Men. (1963)
 Daniel E. Thornburgh, M.A., The University of Iowa, Assistant Professor, English. (1959)
 Laurence C. Thorsen, Ph.D., University of Illinois, Associate Professor, Political Science. (1968)
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 Charles F. Tucker, B.S., in Ed., Eastern Illinois University, Faculty Assistant, Chemistry. (1955)
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V

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- Terry M. Weidner, Ph.D., The Ohio State University, Associate Professor, Botany. (1964)
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 Larry J. Williams, M.A., University of Oregon, Assistant Professor, Mathematics. (1964)
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 Ronald T. Wohlstein, M.A., University of Alberta, Assistant Professor, Sociology-Anthropology. (1970)
 Leonard C. Wood, Ph.D., University of Pennsylvania, Professor, History. (1960)
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Y

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George Vogel, Ph.D., Associate Professor, Instructional Media. (1973)

- Academic Advisement, 44
 - Former Students, 45
 - New Students, 44
 - Students Changing Majors, 45
- Academic Dismissal, 51
- Academic Exclusion, 51
- Academic Load, 52
- Academic Organization and Course Descriptions, 117
- Academic Regulations and Requirements, 47
- Academic Standing, 50
- Acceptance of Credit for Other Work, 47
- Accountancy Course Descriptions, 119
- Accounting Major, B.S. in Business, 71
- Accreditation, 9
- Achievement Fund Scholarship Award, 33
- Activity Fees, 20
- Adjunct Faculty, 266
- Administrative Office Management, B.S. in Business, 71
- Administrative Officers, 8
- Admission, 41
 - of Foreign Students, Graduate, 110
 - of Foreign Students, Undergraduate, 42
 - to Graduate Study, 109
 - Policies, 41
 - Procedures, 42
 - to Teacher Education, 109
- Adult Education (see Continuing Education), 59
- Advanced Placement Tests, 48
- Advisement, 41
- Afro-American Studies Major, B.S., 71
- Afro-American Studies Minor, 72
- Aim, Master of Arts, 111
- Aim, Master of Science in Education, 110
- Aim, Specialist in Education, 112
- Alumni Association, 12
- Alumni Organizations, 12
- Anthropology Course Descriptions, 121
- Application, Admission to Teacher Education, 66
- Application, Assignment for Teaching Practicum, 66
- Application Charge, 27
- Application for Graduation, 56
- Applied Arts-Education Center, 10
- Art Course Descriptions, 121
- Art Education Major, B.A. for Teacher Certification, 72
- Art Gallery, Paul Turner Sargent, 21
- Art History Major, B.A., 72
- Art Studio Major, B.A., 72
- Assistantships, Graduate, 110
- Athletic Organizations, 23
- Audio-Visual Services, 18
- Auditing of Courses, 53
- Auditions, Music, 188
- Automated Information Systems Major, B.S. in Business, 73
- Automobile Registration and Control, 24
- Awards, University, 32
- Basic Educational Opportunity Grant, 39
- Bicycle Registration and Control, 26
- Blair Hall, 10
- Board of Governors Degree Program, B.A., 73
- Board of Governors of State Colleges and Universities, 7
- Board and Room Charges, 30
- Board and Room Refund, 31
- Book Rental and Sales, 18
- Booth Library, 10, 18
- Botany Course Descriptions, 126
- Botany Major, B.S., 73
- Botany Major, B.S. for Teacher Certification, 74
- Briggs, Alexander, Memorial Award, 33
- Business Alumni Award, 33
- Business Education and Administrative Office Management Course Descriptions, 128
- Business Education Comprehensive Major, B.S. in Education, 74
- Business Education Major, B.S. in Education, 75
- Business Education Minor, 76
- Buzzard, Robert A., Building, 11
- Buzzard House, 10
- Calendar, University, 5
- Campus, The, 10
- Campus, Map, 2
- Cards of Entitlement (see Certification, 57)
- Carothers, Adelia, Fund, 36
- Certification, 57
- Change of Grade, 50
- Change in Load, Refund, 31
- Changing Major, 45
- Charges for Materials, 29
- Chemistry Breakage Ticket, 29
- Chemistry Course Descriptions, 131
- Chemistry Major, B.S., 76
- Chemistry Major, B.S. for Teacher Certification, 76
- Chemistry Minor, 77

- Class Attendance, 53
- Classics Course Descriptions, 152
- Classification of Students, 49
- Clinical Services Building, 10
- Coleman, Charles H., Scholarship, 33
- Coleman Hall, 10
- College of Arts and Sciences,
 - Cooperative Programs, 62
- College of Arts and Sciences,
 - Liberal Arts Programs, 61
- College of Arts and Sciences,
 - Teacher Education Programs, 62
- College of Arts and Sciences,
 - Teaching Minors, 62
- College Level Examination Program,
 - Credit for, 48
- College Level General Education
 - Development Tests, 48
- College Work Study Program, 40
- Community Service, 59
- Computational Mathematics Major,
 - B.S., 77
- Conditional Status, Graduate
 - Admission, 109
- Conferences, 60
- Constitution Examination, 56
- Continuing Education and
 - Community Service, 59
- Continuing Education, Fees for, 29, 60
- Correspondence Courses, Credit for, 48
- Counseling, 16
- Course Descriptions, 117
 - Accountancy, 119
 - Anthropology, 121
 - Art, 121
 - Botany, 126
 - Business Education and
 - Administrative Office
 - Management, 128
 - Chemistry, 131
 - Classics, 152
 - Earth Science, 135
 - Economics, 135
 - Educational Administration, 138
 - Educational Foundations, 140
 - Educational Guidance, 141
 - Educational Psychology, 143
 - Elementary Education, 144
 - English, 146
 - Foreign Languages, 151
 - French, 152
 - Geography, 157
 - Geology, 159
 - German, 153
 - Health Education, 159
 - History, 161
 - Home Economics, 165
 - Industrial Arts, 169
 - Industrial Technology, 173
 - Instructional Media, 174
 - Journalism, 175
 - Junior High School Education, 176
 - Latin, 154
 - Library Science, 176
 - Life Science, 178
 - Linguistics, 155
 - Management, 179
 - Marketing, 182
 - Mathematics, 184
 - Music, 190
 - Philosophy, 197
 - Physical Education Service
 - Courses, 198
 - Physical Education Professional
 - Courses, 200
 - Physical Science, 205
 - Physics, 205
 - Political Science, 208
 - Psychology, 211
 - Recreation, 214
 - Russian, 155
 - Secondary Education, 215
 - Social Science, 217
 - Sociology, 217
 - Spanish, 156
 - Special Education, 219
 - Speech Communication, 220
 - Speech Pathology and
 - Audiology, 223
 - Student Leadership, 225
 - Student Teaching, 226
 - Theatre Arts, 226
 - Zoology, 227
- Course Enrollment, 52
- Course Numbering, 118
- Course, Repeating, 52
- Courses, Allowed for Distribution
 - Requirements, 69
- Credit, 47
 - for Advanced Placement Tests, 48
 - for College Level Examination
 - Program, 48
 - for College Level General
 - Educational Development, 48
 - for Correspondence and
 - Extension Courses, 48
 - for Courses in Other Colleges and
 - Universities, 47
- Earned at Eastern Illinois
 - University, 47

- from a Junior College taken while a
 - High School Student, 47
- for Military Service, 47
- for Off-Campus Courses, 60
- by Proficiency Examinations, 49
- Credit Organizations in Music, 188
- Definition of Semester of Attendance, 50
- Degrees and Major, 61
- Denied Admission, Refund, 31
- Denton, Gretchen Sue, Scholarship, 33
- Departmental Clubs, 22
- Description of Courses, 117
- Disadvantaged Student Scholarship, 33
- Dismissal, Academic, 51
- Distribution Requirements, 69
- Distribution Requirements,
 - Courses which Satisfy, 69
- Division of the Year, 11
- Dormitory Complexes, 11
- Drury, Thomas R., Scholarship, 33
- Dudley, G. B., Award, 34
- Dvorak, Leo J., Memorial Award, 34
- Earth Science Course Descriptions, 135
- Eastern Illinois University Foundation,
 - The, 12
- Economics Course Descriptions, 135
- Economics Major, B.A., 77
- Economics Major, B.A. for
 - Teacher Certification, 77
- Educational Administration Course
 - Descriptions, 138
- Educational Foundation Course
 - Descriptions, 140
- Educational Guidance Course
 - Descriptions, 141
- Educational Psychology Course
 - Descriptions, 143
- Elementary Education Course
 - Descriptions, 144
- Elementary Education Major,
 - B.S. in Education, 78
- Elementary Education Major, Flexible
 - Program for Elementary Majors
 - with 3.50 Cumulative GPA, 80
- Elementary Education—Special
 - Education Major, B.S. in
 - Education, 80
- Elementary and Junior High School
 - Student Teaching Loan Fund, 36
- Elliott, Charles A., Industrial Arts
 - Education Award, 34
- Emergency Loan Fund, 37
- Emeritus Faculty, 265
- Employment, Student, 16
- Engineering Major, B.S., 81
- English Course Descriptions, 146
- English Major, B.A., 82
- English Major, B.A. for Teacher
 - Certification, 82
- English Minor, 83
- Enrollment, 44
- Enrollment, Course, 52
- Enrollment Procedures, Continuing
 - Education, 59
- Enrollment Procedures, Former
 - Students, 44
- Enrollment Procedures,
 - New Students, 44
- Enrollment Procedures, Students
 - Currently Enrolled, 44
- Enrollments, Summary of, 233
- Entrance Requirements for Continuing
 - Education, 59
- Environmental Biology Major, B.S., 83
- Exclusion, Academic, 51
- Expenses, 27
- Experimental Secondary Education
 - Program, 64, 66
- Extension Services (see Continuing
 - Education), 59
- Faculty, 1973-74, 237
- Federal Educational Opportunity
 - Grants, 39
- Fees, 1974-75, 28
- Fees for Continuing Education, 29, 60
- Fields, Master of Arts and Master of
 - Science, 111
- Fields, Master of Science in
 - Education, 111
- Fields, Specialist in Education, 112
- Final Examination Changes, 53
- Finance Major, B.S. in Business, 83
- Financial Aids, 31
- Fine Arts Center, 10
- Foreign Languages Course
 - Descriptions, 151
- Foreign Language, Minor, 84
- Foreign Students, Admission of, 42
- Foreign Student Scholarship, 33
- Forensics, 20
- Fraternities, Social, 24
- French Course Descriptions, 152
- French Major, B.A., 84
- French Major, B.A. for Teacher
 - Certification, 84
- French Minor, 84
- Freshman-Sophomore Motor Vehicle
 - Regulation, 24
- Frommel, Ann, Memorial Award, 34

General Assembly Scholarship, 32
 General Education Requirements, 69
 General Information, 9
 General Library Service Fee, 29
 General Services, 16
 Geography Course Descriptions, 157
 Geography Major, B.S., 84
 Geography Major, B.S. for Teacher Certification, 85
 Geography Minor, 85
 Geology Course Descriptions, 159
 Geology Major, B.S., 85
 German Course Descriptions, 153
 German Major, B.A., 84
 German Major, B.A. for Teacher Certification, 84
 German Minor, 84
 Good Standing, 51
 Grade Point Average, 50
 Grades, 50
 Grades Changed, 50
 Graduate Assistantships, 110
 Graduate Degrees Offered, 110
 Graduate Degree Programs, 109
 Graduate Degree Program Requirements, 112
 Graduate Study, 109
 Graduate Study, Admission and Readmission, 109
 Graduate Study in the Senior Year, 110
 Graduation Fee, 29
 Graduation Honors, 57
 Graduation Requirements, 55
 Graduation Requirements, Responsibility of Students, 55
 Grants-in-Aid, 33
 Grants, State, 31
 Grud, Thomas A., Scholarship, 34
 Guest Students, 42
 Health Education Course Descriptions, 159
 Health Education Major, B.S. for Teacher Certification, 85
 Health Education Minor, 86
 Heller, Hobart F., Scholarship, 34
 History Course Descriptions, 161
 History Major, B.A., 86
 History Major, B.A. for Teacher Certification, 86
 History Minor, 87
 History of the University, 9
 Home Economics Course Descriptions, 165
 Home Economics Education Major, B.S. for Teacher Certification, 88

Home Economics Education Minor, 89
 Home Economics Major, B.S., 87
 Honors, 59
 Housing, Married, 16
 Housing Security Deposit, 30
 Housing, University, Policies, 15
 Humanities Courses, 70
 Illinois Congress of Parents and Teachers Loan Fund, 37
 Illinois Guaranteed Loan Program, 37
 Illinois Orphans Education Act, 39
 Industrial Arts Course Descriptions, 169
 Industrial Arts Education Major, B.S. for Teacher Certification, 89
 Industrial Arts Education Minor, 89
 Industrial and Business Placement Services, 17
 Industrial Technology Course Descriptions, 173
 Industrial Technology Major, B.S., 90
 Instructional Media Course Descriptions, 174
 Instructional Service, 18
 Insurance, 16
 Intercollegiate Athletics, 22
 Interfraternity Council, 23
 Intramural Athletics, 22
 Intramural Speech Activities, 20
 Journalism Course Descriptions, 175
 Journalism Minor, 90
 Junior High School Education Course Descriptions, 176
 Junior High School Education Major, B.S. in Education, 90
 King, Bobbie, Memorial Scholarship, 34
 King, Martin Luther Jr., Scholarship, 34
 King, Martin Luther Jr., University Union, 11, 20
 Klehm, Walter A., Industrial Arts Education Award, 34
 Lantz, Charles P., Scholarship, 34
 Lantz Health, Physical Education and Recreation Building, 10
 Late Enrollment Fee, 29
 Latin American Studies, 114
 Latin Course Descriptions, 154
 Latin Minor, 84
 Lawson, Elizabeth K., Emergency Loan Fund, 37
 Lecture Series, 20
 Library, Mary J. Booth, 10, 18

Library Science Course Descriptions, 176
 Library Science Minor, 93
 Library Services, 18
 Library, Textbook, 18
 Life Science Building, 10
 Life Science Course Descriptions, 178
 Linguistics Course Descriptions, 155
 Living Accommodations, 15
 Load, Normal Academic, 52
 Loans, 36
 Location, 9
 Lock Purchase, 29
 Lord, Livingston C., Administration Building, 10
 Lord, Livingston C., Memorial Scholarship, 35
 Majors and Degrees, 61
 Majors and Minors, Requirements for, 71
 Management Course Descriptions, 179
 Management Major, B.S. in Business, 93
 Map, Campus, 2
 Marketing Course Descriptions, 182
 Marketing Major, B.S. in Business, 94
 Married Housing, 16
 Master of Arts and Master of Science Degrees, 111
 Master of Business Administration, 111
 Master of Science in Education Degree, 110
 Master of Science in Library Science, 111
 Mathematics Course Descriptions, 184
 Mathematics Major, B.A., 94
 Mathematics Major, B.A. for Teacher Certification, 94
 Mathematics Minor, 94
 Mathematics-Science General Education Requirement, 70
 Maximum Load, 52
 McAfee, Florence, Loan Fund, 37
 McAfee, Florence, Scholarship, 35
 McAfee, Gymnasium, 10
 McKinney, Isabel, Scholarship, 35
 Medical Services, 17
 Medical Technology Major, B.S., 94
 Military Scholarship, 38
 Miller, Louise C., Scholarship, 35
 Minority Student Scholarship, 33
 Miscellaneous Fees and Charges, 29
 Modesitt, Raymond L., Mathematics Scholarship, 35
 Motor Vehicle Regulations, 24
 Music Auditions, 188
 Music Course Descriptions, 190

Music Credit Organizations, 188
 Music Education Major, B. in Music for Teacher Certification, 95
 Music Education Minor, 96
 Music History-Literature Major, B. in Music, 96
 Music, Non-Credit Organizations, 190
 Music Organizations, 21, 188
 Music Performance Major, B. in Music, 96
 Music Studies in Performance and Composition, 188
 Music Theory-Composition Major, B. in Music, 97
 National Direct Student Loan Fund, 37
 Neely, Winnie Davis, Memorial Award, 35
 New Student Orientation, 45
 Non-Degree Graduate Student Admission, 109
 Non-Degree Programs, 113
 Non-Discrimination, University Policy on, Inside Front Cover
 Non-Enrollment Refund, 31
 Non-Graduates of High School, Admission of, 42
 Normal Load, 52
 Numbering of Courses, 118
 O'Brien, Estelle Ruth, Memorial Mathematics Scholarship, 35
 Official Receipts, 30
 Optional Catalog Requirements, 55
 Organization of the University, 11
 Orientation, New Student, 45
 Out-of-State Applicants, 41
 Overload, 52
 Panhellenic Council, 24
 Parietal Rule, 15
 Parking Permits, 25
 Parking Violations, 25
 Part-time Student Fees, 28
 Pass-Fail Option, 54
 Payment Dates and Late Payment Fees, 30
 Penalties, Traffic, 25
 Penalties for Violation and Noncompliance, Bicycles, 26
 Philosophy Course Descriptions, 197
 Philosophy Major, B.A., 97
 Physical Education Men Major, B.S., 97
 Physical Education Men Major, B.S. for Teacher Certification, 98

- Physical Education Men for Elementary Major, B.S. for Teacher Certification, 98
- Physical Education Men Minor, 99
- Physical Education Non-Credit Intercollegiate Course Descriptions, 200
- Physical Education Professional Course Descriptions, 200
- Physical Education Service Course Descriptions, 198
- Physical Education Women Major, B.S. for Teacher Certification, 99
- Physical Education Women Minor, 100
- Physical Science Building, 10
- Physical Science Course Descriptions, 205
- Physics Course Descriptions, 205
- Physics Major, B.S., 100
- Physics Major, B.S. for Teacher Certification, 100
- Physics Minor, 101
- Placement, 17, 57
- Placement, Alumni, 17
- Placement, Industrial and Business, 17
- Placement, Teacher, 17
- Policies, Admission and Readmission, 41
- Political Science Course Descriptions, 208
- Political Science Major, B.A., 101
- Political Science Major, B.A. for Teacher Certification, 101
- Post Baccalaureate Degree Students, 51
- Pre-Dentistry Program, 113
- Pre-Engineering, 113
- Pre-Health Related Professions, 114
- Pre-Law, 114
- Pre-Medicine, Bachelor of Science, 102
- Pre-Medicine Information, 102
- President's Award, 35
- Pre-Veterinary Medicine Program, 114
- Probation, 51
- Procedures for Applying for Admission, 42
- Proficiency Examinations, Credit by, 49
- Psychology Course Descriptions, 211
- Psychology Major, B.A., 102
- Psychology Major, B.A. for Teacher Certification, 102
- Psychology Minor, 102
- Publications, 21
- Purpose, 9
- Radio-Television, 21
- Reading Improvement, 19
- Readmission, 43
- Readmission, Former students dismissed for low scholarship, 43
- Readmission, Former students in good standing, 43
- Readmission, Former students who have graduated, 44
- Receipts, Official, 30
- Recitals, Music, 190
- Recreation Course Descriptions, 214
- Recreation Major, B.S., 103
- Refunds, 30
- Registration, Bicycles, 26
- Registration of Vehicles, 25
- Regular Status, Graduate Admission, 109
- Reinhardt, Emma, Award, 35
- Reinstatement Following Academic Dismissal, 51
- Religious Organizations, 23
- Repeating Courses, 52
- Requirements for Graduation, 55
- Requirements for Majors and Minors for Undergraduate Degrees, 71
- Residence Hall Fees, 30
- Residence Hall Government, 23
- Residence Halls, 15
- Residency, 27
- Responsibility of Students Inside Front Cover, 55, 61
- Revocation of Admission to Teacher Education, 65
- Room and Board Charges, 30
- Room and Board Refund, 31
- Rothschild, Donald A., Award, 35
- Russell Loan Fund, 37
- Russian Course Descriptions, 155
- Russian Minor, 84
- Safety and Driver Education Minor, 103
- Sargent, Paul Turner, Art Gallery, 21
- Sargent, Paul Turner, Scholarship Award, 36
- Schedule of Classes, Continuing Education, 60
- Scholarships for Off-campus, 60
- Scholarships, State, 31
- School of Business, Professional Business Program, 62
- School of Business, Teacher Preparation Program, 63
- School of Business, Teaching Minors, 63
- School of Education, Teacher Education, 63
- School of Fine Arts, 67

- School of Health, Physical Education and Recreation, Professional Programs, 67
- School of Health, Physical Education and Recreation, Teacher Preparation Programs, 67
- School of Health, Physical Education and Recreation, Teaching Minors, 67
- School of Home Economics, Professional Program, 68
- School of Home Economics, Teacher Preparation Program, 68
- School of Home Economics, Teaching Minor, 68
- School of Industrial Arts and Technology, Professional Program, 68
- School of Industrial Arts and Technology, Teacher Preparation Program, 68
- School of Industrial Arts and Technology, Teaching Minor, 68
- Scruggs, Walter Merritt, Scholarship, 36
- Second Bachelor's Degree, Requirements for, 56
- Secondary Education Course Descriptions, 215
- Secondary Education Program, Experimental, 64, 66
- Security Building, 11
- Semester of Attendance, Definition of, 50
- Semester Fees, 27
- Semester Honors, 57
- Service Organizations, 23
- Simmons, Mr. and Mrs. William Craig, Memorial Award, 36
- Social and Cultural Life and Activities, 19
- Social Fraternities, 24
- Social Science Course Descriptions, 217
- Social Science Major, B.A. for Teacher Certification, 103
- Social Science Minor, 104
- Social Sororities, 24
- Social Studies, 70
- Sociology Course Descriptions, 217
- Sociology Major, B.A., 104
- Sociology Major, B.A. for Teacher Certification, 104
- Sororities, Social, 24
- Spanish Course Descriptions, 156
- Spanish Major, B.A., 84
- Spanish Major, B.A. for Teacher Certification, 84
- Spanish Minor, 84
- Special Awards, 33
- Special Education Course Descriptions, 219
- Special Education Grants, 32
- Special Education Teacher Education Scholarship, 32
- Special Examinations, 56
- Special Groups, 23
- Special Students, Admission of, 42
- Specialist Degrees, 112
- Specialist in Education Degree, 112
- Speech Communication Course Descriptions, 220
- Speech Communication Major, B.A., 105
- Speech Communication Major, B.A. for Teacher Certification, 105
- Speech Communication Minor, 105
- Speech and Hearing Diagnosis and Correction, 19
- Speech Pathology and Audiology Course Descriptions, 223
- Speech Pathology and Audiology Major, B.S., 105
- Speech Pathology and Audiology Major, B.S. toward Teacher Certification, 106
- Stapp, Kate Booker, Scholarship, 36
- State Rehabilitation Program, 39
- State Scholarships and Grants, 31
- Statistics, 233
- Stover, Ernest L., Scholarship, 36
- Student Employment, 40
- Student Expenses and Financial Aid, 27
- Student-Faculty Boards, 19
- Student Government, 22
- Student Identification Card Fee, 29
- Student Leadership Course Description, 225
- Student Life, Activities and Services, 15
- Student Organizations, 22
- Student Services Building, 11
- Student Speaker Bureau, 21
- Student Teaching, 65
- Student Teaching Course Descriptions, 226
- Student Completing Two Majors or a Teaching Major and a Non-Teaching Major, 69
- Student's Responsibility, Inside Front Cover, 55, 61

- Studies in Performance and
 - Composition, Music, 188
- Summary of Degrees Awarded, 235
- Summary of Enrollments, 233
- Summer Fees, 28
- Supplementary Educational
 - Opportunity Grant, 39
- Talented Student Awards, 32
- Taylor, Edson H., Award, 36
- Teacher Education Programs, 62
- Teacher Placement Services, 17
- Teaching Practicum (Student Teaching), 65
- Teaching Practicum, Application for
 - Assignment, 66
- Teacher Preparation Programs, 63, 67, 68
- Telephone and Security Building, 11
- Testing, 17
- Textbook Library, 18
- Textbook Library Fee, 29
- Theatre, 21
- Theatre Arts Course Descriptions, 226
- Theatre Arts Major, B.A., 106
- Theatre Arts Major, B.A. for Teacher
 - Certification, 106
- Theatre Arts Minor, 106
- Towing, 25
- Traffic Penalties, 25
- Transcripts, 58
- Transcript Fee, 25
- Transfer Students, Admission, 41, 43
- Transfer Students, Teacher
 - Education, 64
- Two Degrees, 56
- Two Majors, 69
- Undergraduate Degrees, 61
- University Awards, 32
- University Board, 19
- University Calendar, 5
- University Housing Policies, 15
- University Loan Fund, 38
- University Traffic Regulations, 25
- University Union, Martin Luther King, Jr., 11, 20
- Vehicle Regulations, 25
- Veterans Benefits, 38
- Warner, Errett and Maxie,
 - Loan Fund, 38
- Weller, Annie L., Award, 36
- Widger, Howard DeForest, Award, 36
- Withdrawal from a Course, 54
- Withdrawal from the University, 54
- Withdrawal Refund, 30
- Withdrawal, Summer Session, 30
- Workshops, 60
- Zoology Course Descriptions, 227
- Zoology Major, B.S., 107
- Zoology Major, B.S. for Teacher
 - Certification, 107

IF YOU WISH INFORMATION . . .

For information on particular aspects of the University, please address your inquiry to the persons named below.

Admission of Graduate Students — Dean, Graduate School

Admission of Undergraduate Students — Director of Admissions

Admission of Transfer Students — Director of Admissions

Application for Graduation — Records Office

Extension Service — Director of Extension

Married Student Housing, University Apartments — Assistant Dean, Married Housing

Military Scholarships — Director of Veterans Services

Off-Campus Housing — Director of Off-Campus Housing

Placement — Director of Placement

Readmission of Former Students in Good Standing — Records Office

Reinstatement of Former Students Dismissed for Low Scholarship — Records Office

Residence Hall Accommodations — Dean, Student Housing

Scholarships — Director of Financial Aids

Student Employment — Director of Financial Aids

Student Insurance — Office of Financial Aids

Student Loans — Director of Financial Aids

Summer Study Abroad — Director of Extension

Testing — Coordinator of Testing

Workshops — Director of Extension